

Prepp

Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UPTET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC MTS Previous Year Paper (Held on: 20 July 2022 Shift 1)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence & Reasoning	25	25	0.25	1
2	Numerical Aptitude	25	25	0.25	1
3	General English	25	25	0.25	1
4	General Awareness	25	25	0.25	1

- 1.) A total of 90 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

General Intelligence & Reasoning

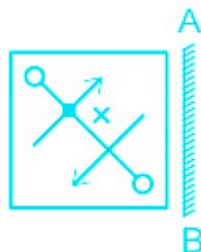
1. Select the figure from among the given options that can replace the question mark (?) in the following series.

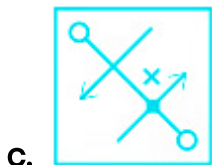
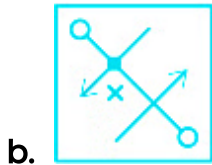
(+1, -0.25)



2. Select the correct mirror image of the given figure when the mirror is placed at line AB as shown.

(+1, -0.25)





3. Three boys T, R and M are sitting in a row facing towards the north (not necessarily in the same order), and three girls F, G and K are sitting in a row facing towards the face of these boys (not necessarily in the same order). F and R are diagonally opposite to each other. K is not at any of the ends. (+1, -0.25)

Which of the following pairs of persons facing towards each other is/are definitely correct?

- I. GR
 - II. KT
- a. Only I
 - b. Only II
 - c. Both I and II
 - d. Neither I nor II

4. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster. (+1, -0.25)

KSZ : PHC :: TNK : ?

- a. MGN
- b. GNO
- c. GMO
- d. GMN

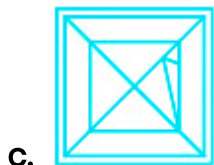
5. Eight girls A, B, C, D, E, F, G and H are sitting around a circular table facing opposite to the centre (not necessarily in the same order). B is second to the left of D. F is third to the left of B. A is second to the left of F. C is second to the left of A. G is third to the left of E. (+1, -0.25)

Three out of the following four options are similar by a certain logic and form a group. Which of the following does NOT belong to that group?

- a. A, C, E
- b. D, B, H
- c. D, H, G
- d. C, E, F

6. Select the option in which the given figure is embedded. (Rotation is not allowed) (+1, -0.25)





7. In a certain code language, 'GAME' is coded as '78', and 'PNAD' is coded as '105'. How will 'HORN' be coded in that language? (+1, -0.25)

- a. 135
- b. 165
- c. 145
- d. 170

8. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. (+1, -0.25)

Statements:

I. All car are red.

II. No blue is red.

Conclusions:

I. No car is blue.

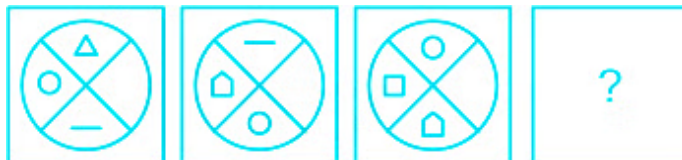
II. Some red are cars

- a. Only conclusion I follows
- b. Only conclusion II follows
- c. All conclusions follow
- d. None of the conclusions follow

9. In a certain code language, 'HALMST' is written as 'IZMLTS' and 'GEASTR' is written as 'HDBRUQ'. How will 'TRAILS' be written in that language? (+1, -0.25)

- a. UOBHMR
- b. UQBHNR
- c. UQBIMR
- d. UQBHMR

10. Select the figure from the given options that can replace the question mark (?) in the following series. (+1, -0.25)





11. Select the option that is related to the fifth number in the same way as the second number is related to the first number and fourth number is related to third number. (+1, -0.25)

23 : 25 :: 17 : 64 :: 29 : ?

- a. 119
- b. 144
- c. 121
- d. 169

12. Select the number from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)

64, 51, 38, ?, 12, -1

- a. 25
- b. 22
- c. 27
- d. 24

13. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. (+1, -0.25)

Statements:

- I. Some games are lands.
- II. Some toys are games.

Conclusions:

- I. Some toys are not lands.
 - II. Some lands are games.
- a. Only conclusion I follows
 - b. Neither conclusion I nor II follows
 - c. Only conclusion II follows
 - d. Both conclusions I and II follow

14. In a certain code language, 'WORD' is written as 'CUXJ' and 'MOKE' is written as 'SUQK'. How will 'IDEA' be written in that language? (+1, -0.25)

- a. OJKG
 - b. OJLG
 - c. OJLH
 - d. OJMG
-

15. Select the number from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)

13, 51, 205, 819, 3277, ?

- a. 13109
 - b. 13107
 - c. 13108
 - d. 13106
-

16. Select the option in which the two numbers are related in the same way as are the numbers in the given number-pair. (+1, -0.25)

64 : 10 :: ?

- a. 84 : 12
 - b. 54 : 12
 - c. 32 : 1
 - d. 42 : 8
-

17. In a basket there are seven different fruits M, N, O, P, Q, R and S, each having a different weight. P is the heaviest. The weight of S is more than Q but less than O. The weight of M is the third lowest. R has the least weight. The weight of N is less than Q. How many fruits have more weight than S? (+1, -0.25)

- a. 2
- b. 3
- c. 0
- d. 1

18. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)

GROW, FSNX, ETMY, ?, CVKA

- a. DULZ
- b. DVLZ
- c. DVLA
- d. DULX

19. After interchanging which two numbers will the value of the given expression be '173'? (+1, -0.25)

$$52 - 36 + 141 \times 63 \div 47$$

- a. 141 and 52
- b. 47 and 63
- c. 52 and 36

d. 63 and 141

20. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded? (+1, -0.25)



21. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster. (+1, -0.25)

FNNC: CKKZ:: ADRS: XAOP:: BNNL: ?

a. ZKKI

- b. ZKKJ
- c. YKKI
- d. YKKJ

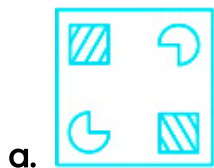
22. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster. (+1, -0.25)

PRO : NOL :: HEL : ?

- a. FIB
- b. FCJ
- c. FJC
- d. FBI

23. Select the correct mirror image of the given figure when the mirror is placed to its right side. (+1, -0.25)

Your Personal Exams Guide



b.



c.



d.

24. In a certain code language, 'BASEBALL' is written as '45' and 'FEEDBACK' is written as '73'. How will 'PRACTICE' be written in that language? (+1, -0.25)

- a. 37
- b. 47
- c. 27
- d. 57

25. After interchanging the given two signs and two numbers, what will be the value of the given expression? (+1, -0.25)

15 and 3; + and ÷

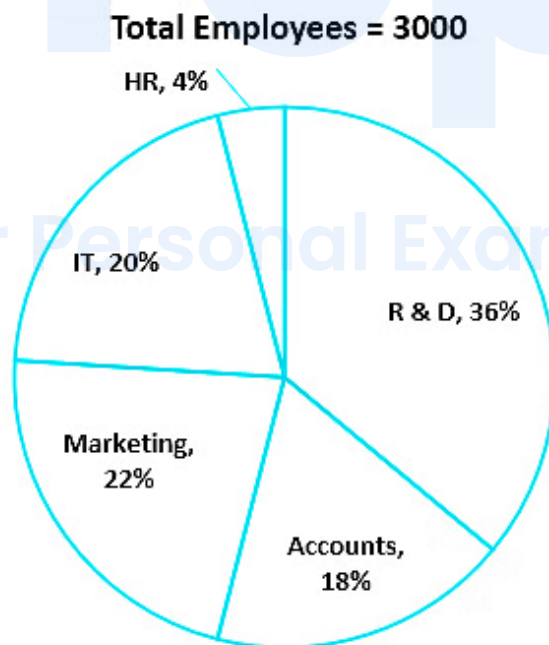
$$6 \div 3 + 5 \times 15 - 9 = ?$$

- a. 6
- b. 15
- c. 12
- d. 8

Numerical Aptitude

26. The number of students in a hostel increases from 5400 to 6075. By what percentage should the hostel reduce the per head consumption of food, so that the expenditure on food does not increase? **(+1, -0.25)**
- a. $8\frac{1}{3}\%$
 - b. $11\frac{1}{9}\%$
 - c. $12\frac{1}{2}\%$
 - d. 10%

27. The following pie chart shows the percentage distribution of employees in five departments of a company XYZ. **(+1, -0.25)**

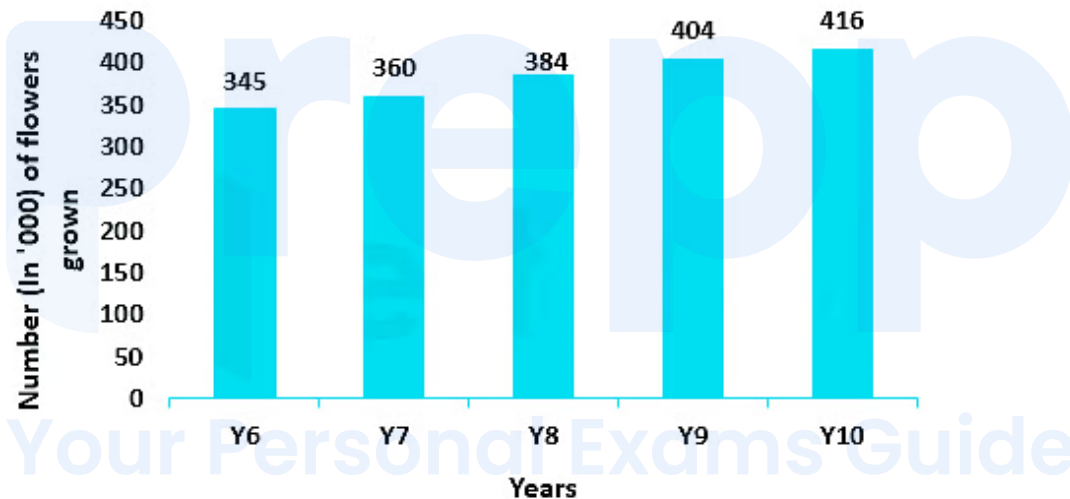


How many employees are there in the Marketing and Accounts

departments taken together?

- a. 1500
- b. 1200
- c. 1250
- d. 1400

28. The following bar chart shows the number of flowers (in '000 kg) grown by a floriculturist in 5 consecutive years. (+1, -0.25)



The number of flowers grown in Y5 was 15% more than those grown in Y4.
 The number of flowers grown in Y6 was 20% more than those grown in Y5.
 What is the difference between the numbers of flowers grown in Y9 and Y4?

- a. 168000
- b. 142000
- c. 154000

d. 132000

29. The height of a cylinder is 3 cm more than the radius of its base. If the height is 10 cm, then what is the volume of this cylinder? [Use $\pi = \frac{22}{7}$] (+1, -0.25)

a. 1540 cm^3

b. 1860 cm^3

c. 2160 cm^3

d. 1240 cm^3

30. Point P and Q are 400 km apart. A person starts from P towards Q at 6 a.m. at a speed of 20 km/h. Another person starts from Q towards P at 6:30 a.m. at a speed of 30 km/h. At what time will they meet? (+1, -0.25)

a. 1:48 p.m.

b. 2:18 p.m.

c. 1:38 p.m.

d. 2:28 p.m.

31. 140 liters of a solution is formed by mixing two solutions A and B. The concentrations of milk in A and B are 40% and 75%, respectively. If the resultant solution has a milk concentration of 52%, then what is the quantity of A that is there in the resultant solution? (+1, -0.25)

a. 92 litres

b. 48 litres

c. 65 litres

d. 57 litres

32. 8 girls and 12 boys can complete a piece of work in 4 days, while 10 girls and 6 boys can complete it in 6 days. How long will 5 girls and 3 boys take to complete this same piece of work? (+1, -0.25)

a. 12 days

b. 14 days

c. 11 days

d. 13 days

33. A man takes 4 hours and 30 minutes to row a boat a distance of 18 km downstream, and 3 hours 30 minutes to row the boat a distance of 7 km upstream. Find the speed of the stream. (+1, -0.25)

a. 4 km/h

b. 2 km/h

c. 3 km/h

d. 1 km/h

34. What is the value of $\frac{36 \div 9 \times 5 \div 15 + 7 \times 3}{6 \div 12 \times 3 \div 12 + 8 \times 3}$? (+1, -0.25)

a. $\frac{528}{529}$

b. $\frac{536}{579}$

c. $\frac{487}{529}$

d. $\frac{485}{569}$

35. What should come in place of the question mark (?) in the following mathematical statement? (+1, -0.25)

$$\frac{18}{60} \times \frac{15}{108} \times ? = 19$$

- a. 456
 - b. 470
 - c. 466
 - d. 442
-

36. P : Q = 4 : 5 and R is 15% less than Q. If Q = 300, then what is the sum of P and R? (+1, -0.25)

- a. 515
 - b. 485
 - c. 495
 - d. 475
-

37. The value of P varies directly as the square of Q. When Q is 4, then P is 48. What is the value of Q when P is 243? (+1, -0.25)

- a. 3
 - b. 27
 - c. 9
-

d. 81

38. On selling 18 pens at Rs. 660, there is a profit equal to the cost price of 4 pens. What is the cost price of one pen (in Rs.)? (+1, -0.25)

a. 33

b. 45

c. 30

d. 22

39. A camp of 250 soldiers has food for 600 days. After 60 days, 50 soldiers leave the camp. For how many days will the remaining food last from the time that these 50 soldiers left? (+1, -0.25)

a. 725 days

b. 750 days

c. 675 days

d. 650 days

40. Vishal and Param each sold their article at Rs. 1,818 but Vishal incurred a loss of 10%, while Param gained by 1%. What is the ratio of the cost price of Vishal's article to that of Param's article? (+1, -0.25)

a. 101 : 90

b. 3 : 4

c. 85 : 89

d. 81 : 75

41. A sum of Rs. 2,400 gives a simple interest of Rs. 504 in 3 years. Find the rate of interest per annum. (+1, -0.25)

a. 6%

b. 10%

c. 5%

d. 7%

42. The average of 12 numbers is M and the average of 8 of these numbers is P. If the average of the remaining numbers is N, then which of the following options is correct? (+1, -0.25)

a. $3M = 2P + N$

b. $4M = 2P + 3N$

c. $6M = 3P + 2N$

d. $6M = 2P + 3N$

43. The ratio of the quantities imported of steel and iron in 2018 was 3 : 2 and in 2020 it was 1 : 1. The ratio of the quantities imported of steel in 2018 and 2020 was 4 : 3. What was the ratio of the quantities imported of iron in 2018 and 2020? (+1, -0.25)

a. 11 : 12

b. 7 : 5

c. 8 : 9

d. 7 : 9

44. What is the radius of a circular field whose area is equal to the sum of the areas of three smaller circular fields of radii 8 m, 9 m and 12 m, respectively? (+1, -0.25)

a. 29 m

b. 20 m

c. 21 m

d. 17 m

45. The average age of two friends. A and B, is 24 years. The average age of A, B and C is 22 years. What is the age of C? (+1, -0.25)

a. 22 years

b. 18 years

c. 21 years

d. 20 years

46. A toy is formed by placing a solid circular cone on a solid hemisphere and the radius of the common base of the cone and the hemisphere is 15 cm. If the volume of the toy is $2850 \pi \text{ cm}^3$, then find the total surface area of that toy. (+1, -0.25)

a. $815 \pi \text{ cm}^2$

- b. $755 \pi \text{ cm}^2$
 - c. $705 \pi \text{ cm}^2$
 - d. $685 \pi \text{ cm}^2$
-

47. A shopkeeper wants to make a profit of 8% after giving a discount of 14%. At what approximate percentage above the cost price should he mark his goods? **(+1, -0.25)**

- a. 22%
 - b. 32.4%
 - c. 25.6%
 - d. 29%
-

48. The following table shows the total number of students in four different classes of a school, and the percentages of students participating in Music or Plays from each of these four different classes. NO student participates both in Music and in Plays. **(+1, -0.25)**

Classes	Total number of students in each class	Percentage of participants	
		Music	Plays
X	600	12	8
IX	400	10	6
VIII	280	30	15
VII	250	10	12

What is the total number of students who do NOT participate in Music or Plays from classes X and VII, taken together?

- a. 675
- b. 620
- c. 700
- d. 480

49. The compound interest earned by Sunil on a certain sum at the end of two years at the rate of 16% p.a., when interest is compounded annually, was 864. What was the sum invested by Sunil? (+1, -0.25)

- a. Rs. 2,500

- b. Rs. 2,750
 - c. Rs. 1,500
 - d. Rs. 2,000
-

50. Find the least possible number which when divided by 16, 24, and 28 leaves 13, 21, and 25 as remainders, respectively. (+1, -0.25)
- a. 333
 - b. 336
 - c. 320
 - d. 348

prepp

Your Personal Exams Guide

General English

51. Select the most appropriate ANTONYM of the underlined word. (+1, -0.25)

After a long and rigorous fast the Lord appeared before him.

- a. Sweaty
- b. Exhausting
- c. Oppressive
- d. Lenient

52. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

Most workers resigns to join new jobs within the same industry.

- a. was resigning
- b. resigned
- c. has resigned
- d. No improvement required

53. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. (+1, -0.25)

A tiger's skull / is similar / to / a lion.

- a. is similar
- b. A tiger's skull

- c. a lion
 - d. to
-

54. Select the most appropriate option to fill in the blank. (+1, -0.25)

My friend, who is a photographer, is _____ a writer.

- a. too
 - b. also
 - c. and
 - d. again
-

55. Select the most appropriate option to fill in the blank. (+1, -0.25)

The bank was prepared to _____ chance and lend him 40% of the purchase price.

- a. make a
 - b. spare a
 - c. take a
 - d. see a
-

56. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. (+1, -0.25)

People and / there demands / are ever-growing, but / the availability of land is limited.

- a. are ever-growing, but
 - b. the availability of land is limited
 - c. there demands
 - d. People and
-

57. Select the most appropriate option to fill in the blank. (+1, -0.25)

I'm frustrated with the _____ minded view of history this article presents.

- a. wide
 - b. bigger
 - c. small
 - d. narrow
-

58. Select the option that will improve the underlined part of the given (+1, -0.25)

sentence. In case no improvement is needed, select 'No improvement required'.

Caffeine is a diuretic that makes you urinate more often.

- a. many often
 - b. oftenly more
 - c. more much often
 - d. No improvement required
-

59. Select the most appropriate meaning of the underlined idiom in the given sentence. (+1, -0.25)

I always smell a rat when John says that he is going out for extra classes.

- a. Trust completely
- b. Suspect trickery or deception
- c. Reveal a secret
- d. Say something stupid

60. Select the most appropriate option to fill in the blank. (+1, -0.25)

The Armenian language has many dialects, some of which cannot be _____ by speakers of other dialects.

- a. realised
- b. understood
- c. memorised
- d. completed

61. Select the option that can be used as a one-word substitute for the given group of words. (+1, -0.25)

Someone who is silent or uncommunicative in speech.

- a. Voluble
- b. Garrulous
- c. Reserved

d. Imperceptible

62. Select the idiom that can substitute the underlined segment in the given sentence. (+1, -0.25)

Roy's customers think that the council has become irrational.

- a. Too much on their plates
 - b. A piece of cake
 - c. Brownd off
 - d. Gone bananas
-

63. Select the most appropriate ANTONYM of the given word. (+1, -0.25)

Ebullient

- a. Carefree
 - b. Dejected
 - c. Buoyant
 - d. Roguish
-

64. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

The family can none long stay in their big house.

- a. no longer stay

- b. stay no long
 - c. No improvement required
 - d. not stay longest
-

65. Select the most appropriate synonym of the given word. (+1, -0.25)

Enraged

- a. Elated
 - b. Peaceful
 - c. Furious
 - d. Fortunate
-

66. Select the INCORRECTLY spelt word. (+1, -0.25)

- a. Foriegn
 - b. Secondary
 - c. Evince
 - d. Portfolio
-

67. Select the most appropriate synonym of the given word. (+1, -0.25)

Flagrant

- a. Atrocious
- b. Magnificent

- c. Wonderful
 - d. Favourable
-

68. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required.' (+1, -0.25)

Many people believe that women make better nurses because they are patient and gentle.

- a. as they would
 - b. because they were
 - c. No substitution required
 - d. because she is
-

69. Select the correctly spelt word. (+1, -0.25)

- a. Strengthen
 - b. Instrumentle
 - c. Eqiupment
 - d. Reversel
-

70. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. (+1, -0.25)

Many countries are not acting / fast enough to controlled / climate change.

- a. No error
- b. fast enough to controlled
- c. Many countries are not acting
- d. climate change

71. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Elephant Island's name is attributed to (1) _____ its elephant head-like appearance and the sighting of elephant seals (2) _____ Captain George Powell in 1821, one of the (3) _____ sightings. (4) _____, in Russia it is still known under the name (5) _____ by its discoverers in 1821 - Mordvinova Island.

Select the most appropriate option to fill in blank number 1.

- a. either
- b. also
- c. both
- d. neither

72. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Elephant Island's name is attributed to (1) _____ its elephant head-like appearance and the sighting of elephant seals (2) _____ Captain George Powell in 1821, one of the (3) _____ sightings. (4) _____, in

Russia it is still known under the name (5) _____ by its discoverers in 1821
- Mordvinova Island.

Select the most appropriate option to fill in blank number 2.

- a. among
- b. from
- c. by
- d. through

73. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Elephant Island's name is attributed to (1) _____ its elephant head-like appearance and the sighting of elephant seals (2) _____ Captain George Powell in 1821, one of the (3) _____ sightings. (4) _____, in Russia it is still known under the name (5) _____ by its discoverers in 1821
- Mordvinova Island.

Select the most appropriate option to fill in blank number 3.

- a. early
- b. earliest
- c. earlier
- d. most early

74. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Elephant Island's name is attributed to (1) _____ its elephant head-like appearance and the sighting of elephant seals (2) _____ Captain George Powell in 1821, one of the (3) _____ sightings. (4) _____, in Russia it is still known under the name (5) _____ by its discoverers in 1821 - Mordvinova Island.

Select the most appropriate option to fill in blank number 4.

- a. Thereby
- b. Thus
- c. However
- d. Therefore

75. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Elephant Island's name is attributed to (1) _____ its elephant head-like appearance and the sighting of elephant seals (2) _____ Captain George Powell in 1821, one of the (3) _____ sightings. (4) _____, in Russia it is still known under the name (5) _____ by its discoverers in 1821 - Mordvinova Island.

Select the most appropriate option to fill in blank number 5.

- a. given
- b. released
- c. sorted
- d. looked

General Awareness

76. Netaji Subhash Chandra Bose International airport is situated in _____. (+1, -0.25)

- a. Mumbai
 - b. Delhi
 - c. Kolkata
 - d. Chennai
-

77. The President of India can nominate maximum _____ members of the Anglo-Indian community to the House of the People, if in his opinion it is not adequately represented. (+1, -0.25)

- a. six
 - b. three
 - c. four
 - d. two
-

78. 'An Unsuitable Boy' is the autobiography of _____. (+1, -0.25)

- a. Karan Johar
 - b. Akshay Kumar
 - c. Anurag Kashyap
 - d. Salman Khan
-

79. Minati Mishra was associated with which classical dance of India? (+1, -0.25)

- a. Kathak
 - b. Kuchipudi
 - c. Odissi
 - d. Manipuri
-

80. Which of the following terms is NOT associated with Tennis? (+1, -0.25)

- a. Service break
 - b. Goal
 - c. Set
 - d. Volley
-

81. Which water body is present to the south of India? (+1, -0.25)

- a. Pacific Ocean
 - b. Arabian Sea
 - c. Bay of Bengal
 - d. Indian Ocean
-

82. On the basis of age, the population of a nation is generally grouped into _____ broad categories. (+1, -0.25)

- a. Four

- b. Five
 - c. Three
 - d. Two
-

83. Bihu is the folk dance form of which Indian state? (+1, -0.25)

- a. Maharashtra
 - b. Assam
 - c. Karnataka
 - d. Bihar
-

84. Who among the following founded Arya Samaj in 1875? (+1, -0.25)

- a. Swami Dayanand Saraswati
 - b. Ishwar Chandra Vidyasagar
 - c. Raja Ram Mohan Roy
 - d. Swami Vivekanand
-

85. Which Indian wrestler won a silver medal in Tokyo Olympics 2020? (+1, -0.25)

- a. Virat Kohli
- b. Vijender Singh
- c. Ravi Dahiya
- d. Yogeshwar Dutt

86. The aviation sector was inaugurated in India in the year _____ with the establishment of Tata Airlines. (+1, -0.25)

- a. 1925
 - b. 1932
 - c. 1929
 - d. 1935
-

87. Which of the following statements is correct? (+1, -0.25)

- I. Gautama Buddha belonged to a small gana known as the Sakya gana and was a Kshatriya.
- II. Gautama Buddha passed away at Kusinara.

- a. Only I
 - b. Neither I nor II
 - c. Only II
 - d. Both I and II
-

88. The core of the Great Himalayas is composed of _____ . (+1, -0.25)

- a. Slate
 - b. Granite
 - c. Sandstone
 - d. Limestone
-

89. Which ministry launched the Krishi Udan 2.0 scheme to facilitate the movement of agricultural produce? (+1, -0.25)
- a. Ministry of Civil Aviation
 - b. Ministry of Rural Development
 - c. Ministry of Minority Affairs
 - d. Ministry of Labour and Employment
-

90. Who has been reappointed as the Governor of the Reserve Bank of India (RBI) in October 2021? (+1, -0.25)
- a. T V Somanthan
 - b. Urjit Patel
 - c. Shaktikanta Das
 - d. D Subbarao
-

Your Personal Exams Guide

91. Who among the following won the award for Best Music Direction in Feature Films (Songs) at the 67th National Film Awards? (+1, -0.25)
- a. D Imman
 - b. Pritam
 - c. AR Rahman
 - d. Ilaiyaraaja
-

92. Bhagwati Committee (1973) presented a report on _____ . (+1, -0.25)
-

- a. unemployment
 - b. poverty
 - c. population growth
 - d. commerce
-

93. Richard Wellesley was the Governor-General of India from _____. (+1, -0.25)

- a. 1806-1810
 - b. 1811-1816
 - c. 1817-1822
 - d. 1798-1805
-

94. The feature of Directive Principles of State Policy in the Indian Constitution is borrowed from the Constitution of _____. (+1, -0.25)

- a. France
 - b. Canada
 - c. Australia
 - d. Ireland
-

95. Aqua regia is a freshly prepared mixture of concentrated hydrochloric acid and concentrated nitric acid in the ratio of _____ by volume. (+1, -0.25)

- a. 3 : 1
- b. 2 : 1

c. 6 : 1

d. 4 : 1

96. Qutbuddin Aybak ruled over Delhi from _____ . (+1, -0.25)

a. 1210 to 1236

b. 1206 to 1210

c. 1236 to 1240

d. 1266 to 1287

97. Madan Mohan temple is a centrally protected monument. It is situated in which state of India? (+1, -0.25)

a. Karnataka

b. Uttarakhand

c. Himachal Pradesh

d. Uttar Pradesh

98. Typhoid fever is caused by _____ . (+1, -0.25)

a. viruses

b. protozoa

c. bacteria

d. fungi

99. Tooth decay starts when the pH of the mouth is lower than _____. (+1, -0.25)

- a. 5.5
 - b. 7.5
 - c. 9.5
 - d. 10.5
-

100. 'Maru Mahotsav' also known as desert festival is celebrated in _____. (+1, -0.25)

- a. jaipur
- b. Leh
- c. Jaisalmer
- d. Srinagar

prepp

Your Personal Exams Guide

Answers

1. Answer: a

Explanation:

The logic followed here is:

One letter/symbol is added in each boxes, and the remaining letters are shifted one place next.

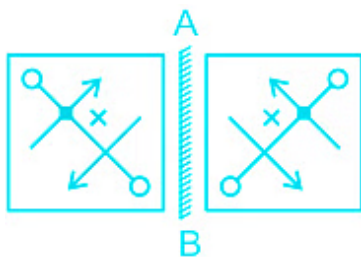


Hence, the correct answer is "Option 1".

2. Answer: a

Explanation:

The correct mirror image of the given figure is:



Hence, the correct answer is "Option 1".

3. Answer: a

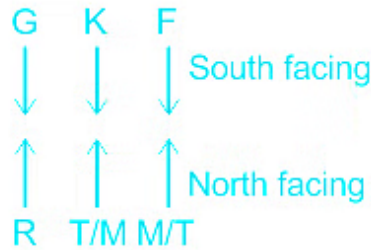
Explanation:

Given: Three boys T, R and M facing North.

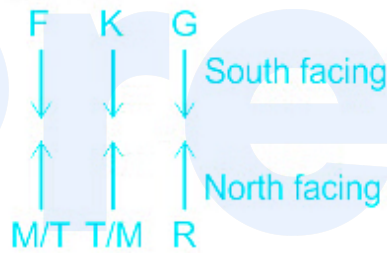
Three girls F, G and K facing towards the face of these boys.

- 1) F and R are diagonally opposite to each other.
- 2) K is not at any of the ends.

Case: I



Case: II



In both cases, the pair G and R will facing towards each other.

And, there is two possible positions for K and T.

Hence, the correct answer is "Option 1".

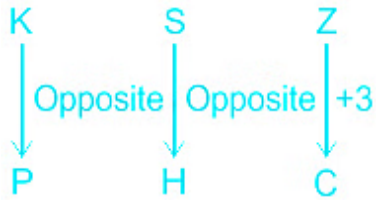
4. Answer: d

Explanation:

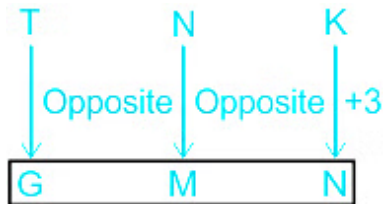
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

For, KSZ : PHC



Similarly, for TNK:



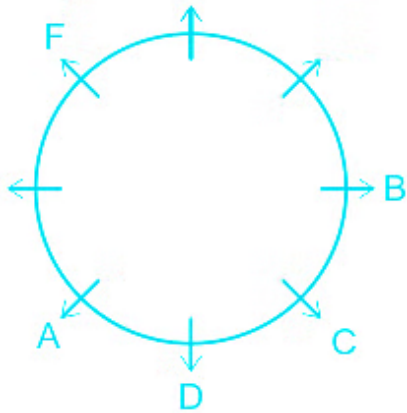
Hence, the correct answer is "Option 4".

5. Answer: c

Explanation:

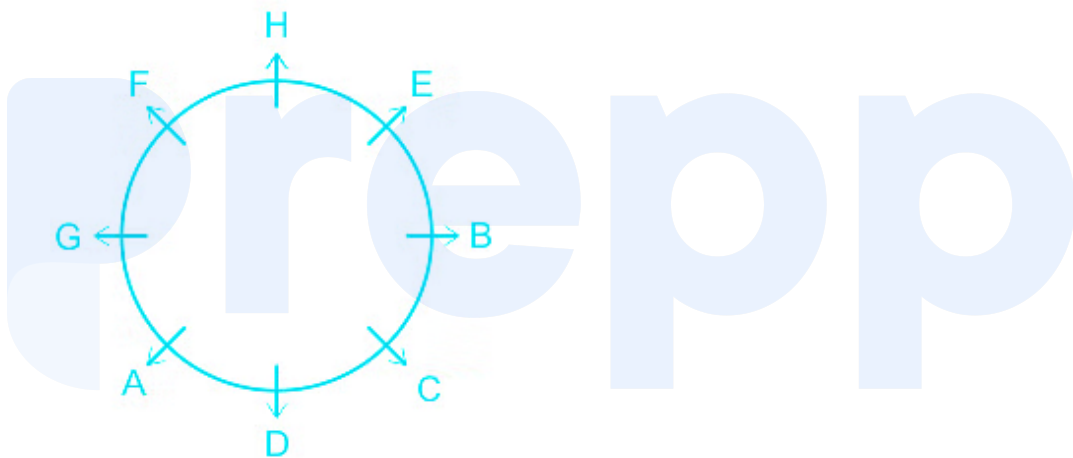
Given: Eight girls A, B, C, D, E, F, G and H.

- 1) B is second to the left of D.
- 2) F is third to the left of B.
- 3) A is second to the left of F.
- 4) C is second to the left of A.



5) G is third to the left of E.

And, H will sit on the remaining place.



Your Personal Exams Guide

Now,

Option 1: A, C, E → forming a pattern.

Option 2: D, B, H → forming a pattern.

Option 3: D, H, G → does not forming any pattern.









Option 4: C, E, F → forming a pattern.

Hence, the correct answer is "Option 3".

6. Answer: b

Explanation:

The image embedded in given figure is as shown below:

No.	Option	Question	Answer
1.			Not Embedded
2.			Embedded
3.			Not Embedded
4.			Not Embedded

Hence, "Option 2" is the correct answer.

7. Answer: b

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

Logic: Sum of the Place Value $\times 3$.

Now,

'GAME' is coded as '78',

$$\Rightarrow G(7) + A(1) + M(13) + E(5) \times 3$$

$$\Rightarrow 7 + 1 + 13 + 5 = 26 \times 3 = 78.$$

'PNAD' is coded as '105',

$$\Rightarrow P(16) + N(14) + A(1) + D(4) \times 3$$

$$\Rightarrow 16 + 14 + 1 + 4 = 35 \times 3 = 105.$$

Similarly, for 'HORN'

$$\Rightarrow H(8) + O(15) + R(18) + N(14) \times 3$$

$$\Rightarrow 8 + 15 + 18 + 14 = 55 \times 3 = 165.$$

So, 'HORN' will be coded as '165'.

Hence, the correct answer is "165".

8. Answer: c

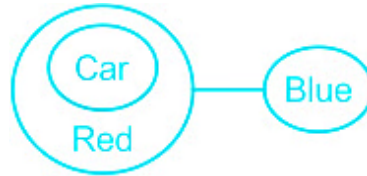
Explanation:

Given Statements:

I. All cars are red.

II. No blue is red.

The least possible Venn diagram for the given statement is:



Now,

Conclusions:

I. No car is blue - True (Because All car is Red, and No Red is blue, so no car will be blue)

II. Some red are cars - True (All cars are red, so some red will be definitely car)

So, All conclusions follow.

Hence, the correct answer is "Option 3".

9. Answer: d

Explanation:

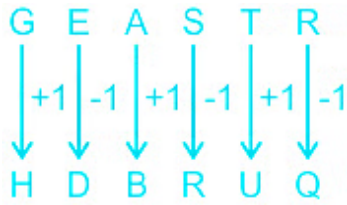
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

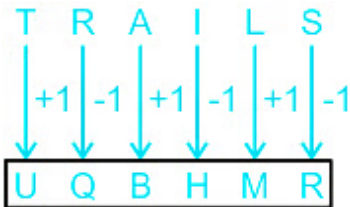
For, 'HALMST' is written as 'IZMLTS'



For, 'GEASTR' is written as 'HDBRUQ'



Similarly, for 'TRAILS':



So, 'TRAILS' will be coded as 'UQBHMR'.

Hence, the correct answer is "Option 4".

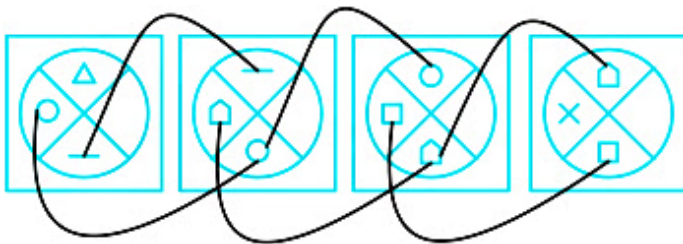
10. Answer: b

Explanation:

The logic followed here is:

One symbol is changed in the next boxes.

The Symbols is shifting its place in next boxes.



Hence, the correct answer is "Option 2".

11. Answer: c

Explanation:

The logic followed here is:

Logic: (Sum of the digits of 1st number)² = 2nd number.

Now,

For, 23 : 25

$$\Rightarrow 23 \rightarrow (2 + 3)^2 = 5^2 = 25.$$

For, 17 : 64

$$\Rightarrow 17 \rightarrow (1 + 7)^2 = 8^2 = 64.$$

Similarly, for 29 : ?

$$\Rightarrow 29 \rightarrow (2 + 9)^2 = 11^2 = 121.$$

Hence, the correct answer is "121".

Your Personal Exams Guide

12. Answer: a

Explanation:

The logic followed here is:



So, 25 will replace the question mark in the given series.

Hence, the correct answer is "25".

13. Answer: c

Explanation:

Given Statements:

- I. Some games are lands.
- II. Some toys are games.

The least possible Venn diagram for the given statement is:



Now,

Conclusions:

- I. Some toys are not lands - False (Because no definite relation given between them, so it can possible only)
- II. Some lands are games - **True** (Some games are lands, so some lands will be definitely games)

So, Only conclusion II follows.

Hence, the correct answer is "Option 3".

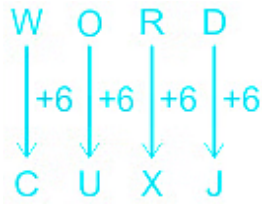
14. Answer: a

Explanation:

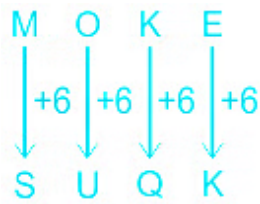
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is: **Letter + 6.**

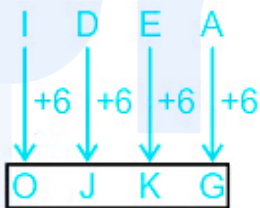
'WORD' is written as 'CUXJ'



'MOKE' is written as 'SUQK'



Similarly, for 'IDEA'



So, 'IDEA' will be written as 'OJKG'.

Hence, the correct answer is "OJKG".

15. Answer: b

Explanation:

The logic followed here is:



So, '13107' will complete the series.

Hence, the correct answer is "Option 2".

16. Answer: a

Explanation:

The logic followed here is:

Logic: **Sum of the digits of 1st number = 2nd number.**

Now,

For, 64 : 10

$$\Rightarrow 64 \rightarrow 6 + 4 = 10.$$

Checking the options,

Option 1) 84 : 12

$$\Rightarrow 84 \rightarrow 8 + 4 = 12.$$

Option 2) 54 : 12

$$\Rightarrow 54 \rightarrow 5 + 4 = 9 \neq 12.$$

Option 3) 32 : 1

$$\Rightarrow 32 \rightarrow 3 + 2 = 5 \neq 1.$$

Option 4) 42 : 8

$$\Rightarrow 42 \rightarrow 4 + 2 = 6 \neq 8.$$

Hence, the correct answer is "Option 1".

17. Answer: a

Explanation:

Given: Seven different fruits M, N, O, P, Q, R and S.

1) P is the heaviest.

2) R has the least weight.

3) The weight of M is the third lowest.

$P > _ > _ > _ > M > _ > R$

4) The weight of S is more than Q but less than O.

5) The weight of N is less than Q.

$P > O > S > Q > M > N > R$

So, there are **Two** fruits have more weight than S.

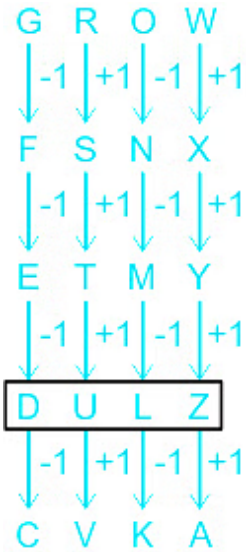
Hence, the correct answer is "Option 1".

Your Personal Exams Guide

18. Answer: a

Explanation:

The logic followed here is:



So, 'DULZ' will replace the question mark in the given series.

Hence, the correct answer is "DULZ".

19. Answer: c

Explanation:

Given equation: $52 - 36 + 141 \times 63 \div 47$.

BODMAS Table:

B	Brackets in order (), { }, []	ब्रैकेट (), { }, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Let's check each option one by one.

Option 1) 141 and 52

Given: $52 - 36 + 141 \times 63 \div 47$.

After interchanging the Numbers we get;

$$\Rightarrow 141 - 36 + 52 \times \underline{63 \div 47}$$

$$\Rightarrow 141 - 36 + \underline{52 \times 1.34}$$

$$\Rightarrow \underline{141} - 36 + \underline{69.68}$$

$$\Rightarrow \underline{210.68} - 36$$

$$\Rightarrow 174.68 \neq 173$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 2) 47 and 63

$$\text{Given: } 52 - 36 + 141 \times 63 \div 47$$

After interchanging the Numbers we get;

$$\Rightarrow 52 - 36 + 141 \times \underline{47 \div 63}$$

$$\Rightarrow 52 - 36 + \underline{141 \times 0.75}$$

$$\Rightarrow \underline{52} - 36 + \underline{105.75}$$

$$\Rightarrow \underline{157.75} - 36$$

$$\Rightarrow 69.75 \neq 173$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 3) 52 and 36

$$\text{Given: } 52 - 36 + 141 \times 63 \div 47$$

After interchanging the Numbers we get;

$$\Rightarrow 36 - 52 + 141 \times \underline{63 \div 47}$$

$$\Rightarrow 36 - 52 + \underline{141 \times 1.34}$$

$$\Rightarrow \underline{36} - 52 + \underline{189}$$

$$\Rightarrow \underline{225 - 52}$$

$$\Rightarrow 173 = 173.$$

$$\Rightarrow \text{LHS} = \text{RHS}$$

Option 4) 63 and 141

$$\text{Given: } 52 - 36 + 141 \times 63 \div 47$$

After interchanging the Numbers we get;

$$\Rightarrow 52 - 36 + 63 \times \underline{141 \div 47}$$

$$\Rightarrow 52 - 36 + \underline{63 \times 3}$$

$$\Rightarrow \underline{52} - 36 + \underline{189}$$

$$\Rightarrow \underline{241} - 36$$

$$\Rightarrow 205 \neq 173$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Hence, the correct answer is "Option 3".

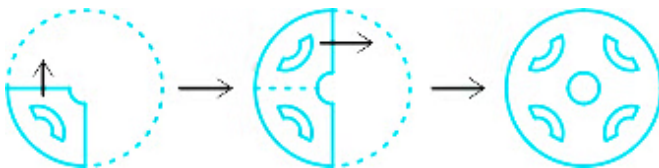


Your Personal Exams Guide

20. Answer: b

Explanation:

The image that completes the pattern is:



Hence, the correct answer is "Option 2".

21. Answer: c

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is: **Letter - 3**.

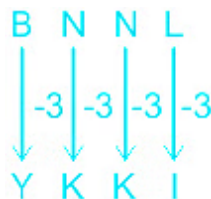
FNNC: CKKZ



ADRS: XAOP



Similarly, for BNNL: ?



Hence, the correct answer is "Option 3".

22. Answer: d

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

PRO : NOL



Similarly, for 'HEL'



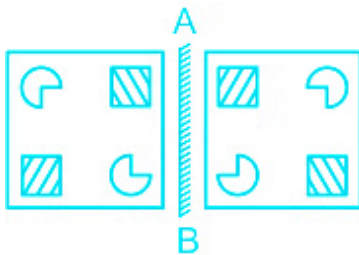
Hence, the correct answer is "FBI".

23. Answer: c

Your Personal Exams Guide

Explanation:

The correct mirror image of the given figure is:



Hence, the correct answer is "Option 3".

24. Answer: d

Explanation:

The logic followed here is:

Logic: **Sum of the place value is getting reversed.**

Now,

'BASEBALL' is written as '45'.

$$\Rightarrow B(2) + A(1) + S(19) + E(5) + B(2) + A(1) + L(12) + L(12)$$

$$\Rightarrow 54 \rightarrow 45 \text{ (Opposite number of 54).}$$

'FEEDBACK' is written as '73'

$$\Rightarrow F(6) + E(5) + E(5) + D(4) + B(2) + A(1) + C(3) + K(11)$$

$$\Rightarrow 37 \rightarrow 73 \text{ (Opposite number of 37).}$$

Similarly, for 'PRACTICE'

$$\Rightarrow P(16) + R(18) + A(1) + C(3) + T(20) + I(9) + C(3) + E(5)$$

$$\Rightarrow 75 \rightarrow 57 \text{ (Opposite number of 75).}$$

So, 'PRACTICE' will be written as '57'.

Hence, the correct answer is **"57"**.

25. Answer: a

Explanation:

BODMAS Table:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (+)	विभाजन (+)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Given equation : $6 \div 3 + 5 \times 15 - 9 = ?$

Now, if '15 and 3' and '+ and ÷' are interchanged, then:

$$\Rightarrow 6 + \underline{15 \div 5} \times 3 - 9 = ?$$

$$\Rightarrow 6 + \underline{3 \times 3} - 9 = ?$$

$$\Rightarrow \underline{6 + 9} - 9 = ?$$

$$\Rightarrow \underline{15 - 9} = 6$$

Hence, the correct answer is "Option 1".

26. Answer: b

Explanation:

Formula used:

$$\text{Percentage reduction} = \left(\frac{x - y}{x} \right) \times 100$$

Calculation:

Let's start by calculating the increase in the number of students:

$$\text{Increase in number of students} = 6075 - 5400 = 675$$

Now, let's assume that the current per-head consumption of food is "x".

$$\text{So, the current expenditure on food} = 5400 \times x$$

If the hostel wants to maintain the same expenditure on food despite an increase in the number of students, the new per-head consumption of food should be "y", where:

$$6075 \times y = 5400 \times x \text{ (as the expenditure remains the same)}$$

So, we can say that:

$$\Rightarrow y = (5400 \times x)/6075$$

Now, we need to find the percentage reduction in per-head consumption of food:

$$\text{Percentage reduction} = ((x - y)/x) \times 100$$

Substituting the value of "y", we get:

$$\text{Percentage reduction} = ((x - (5400 \times x/6075))/x) \times 100$$

Simplifying the above expression, we get:

$$\text{Percentage reduction} = ((675/6075) \times 100)$$

$$\text{Percentage reduction} = 11.11\% \text{ or } 11\frac{1}{9}\%$$

\therefore Option 2 is the correct answer.

27. Answer: b

Explanation:

Calculation:

According to the question:

The number of employees of Marketing and Accounts departments has taken together = $(22 + 18)\%$ of 3000 = 1200

\therefore Option 2 is the correct answer.

28. Answer: c

Explanation:

Calculation:

Number of flowers grown in Y6 = 345000

Number of flowers grown in Y6 was 20% more than those grown in Y5.

Number of flowers grown in Y5 = $345000 \times 100/120 = 287500$

Number of flowers grown in Y5 was 15% more than grown in Y4.

Number of flowers grown in Y4 = $287500 \times 100/115 = 250000$

Number of flowers grown in Y9 = 404000

Difference between the number of flowers grown in Y9 and Y4 = $404000 - 250000 = 154000$

∴ Option 3 is the correct answer.

29. Answer: a

Explanation:

Given:

$$r = h - 3$$

$$h = 10\text{cm}$$

Formula used:

$$\text{Volume(Cylinder)} = \frac{22}{7} \times r^2 \times h$$

Solution:

Your Personal Exams Guide

$$r = 10 - 3 = 7\text{cm}$$

Now, let's put the values in the formula,

$$\text{Volume} = \frac{22}{7} \times 7^2 \times 10 = 1540 \text{ cm}^3$$

30. Answer: b

Explanation:

Given:

Point P and Q are 400 km apart.

Speed of first person who started at 6 a.m. = 20 km/hr

Speed of second person who started at 6:30 a.m. = 30 km/hr

Concept Used:

Time = Distance/speed

Calculation:

Relative speed both person if they running opposite direction = $(20 + 30) = 50 \text{ km/hr}$

Distance covered by first person in 30 min = 10 km

Remaining distance = $400 - 10 = 390 \text{ km}$

Time = Distance/speed

Time = $390/50 = 7\frac{4}{5} \text{ hr} = 7 \text{ hr } 48 \text{ min}$

∴ Required time = 6 : 30 am + 7 hr 48 min = 2 : 18 pm

∴ Option 2 is the correct answer.

31. Answer: a

Explanation:

Calculation:

Let's assume that x liters of solution A is mixed with $(140 - x)$ liters of solution B to get the resultant solution of 140 liters with a milk concentration of 52%.

The milk quantity in solution A = 40% of x

The milk quantity in solution B = 75% of $(140 - x)$

The total milk quantity in the resultant solution = 52% of 140

We can write the following equation based on the above information:

$$0.4x + 0.75(140 - x) = 0.52(140)$$

Simplifying the above equation, we get:

$$0.4x + 105 - 0.75x = 72.8$$

$$-0.35x = -32.2$$

$$x = 92$$

\therefore Option 1 is the correct answer.

32. Answer: a

Explanation:

Given:

8 girls and 12 boys can complete a piece of work in 4 days

10 girls and 6 boys can complete it in 6 days

Concepts used:

$$\text{Time} = \text{Work}/\text{Efficiency}$$

Calculation:

Let the work efficiency of 1 boy be B and the work efficiency of 1 girl be G.

$$\text{Work} = \text{Efficiency} \times \text{Time}$$

$$\Rightarrow \text{Total work by 8 girls and 12 boys} = (8G + 12B) \times 4 = 32G + 48B$$

$$\Rightarrow \text{Total work by 10 girls and 6 boys} = (10G + 6B) \times 6 = 60G + 36B$$

As total work remains the same,

$$\Rightarrow 32G + 48B = 60G + 36B$$

$$\Rightarrow 48B - 36B = 60G - 32G$$

$$\Rightarrow 12B = 28G$$

$$\Rightarrow B/G = 7/3$$

$$\text{Total work} = 32G + 48B = 32 \times 3 + 48 \times 7 = 432$$

$$\text{The efficiency of 5 girls and 3 boys} = 5 \times 3 + 3 \times 7 = 36$$

$$\text{Time} = \text{Work}/\text{Efficiency}$$

$$\Rightarrow 432/36 = 12$$

\therefore Option 1 is the correct answer.

33. Answer: d

Explanation:

Concept Used:

When the boat is going upstream, its effective speed is $(a - b)$ km/hr.

When the boat is going downstream, its effective speed is $(a + b)$ km/hr.

distance = speed x time

Calculation:

Let's assume that the speed of the boat in still water is 'a' km/hr and the speed of the stream is 'b' km/hr.

The distance traveled downstream is 18 km. We know that the time taken to cover this distance downstream is 4 hours and 30 minutes, which is 4.5 hours.

$$18 = (a + b) \times 4.5$$

Simplifying the equation, we get:

$$\Rightarrow a + b = 4$$

The distance traveled upstream is 7 km. We know that the time taken to cover this distance upstream is 3 hours and 30 minutes, which is 3.5 hours.

Using the distance formula,

$$\Rightarrow 7 = (a - b) \times 3.5$$

Simplifying the equation, we get:

$$\Rightarrow a - b = 2$$

We now have two equations with two variables. We can solve these equations simultaneously to find the values of 'a' and 'b'.

Adding the two equations, we get:

$$\Rightarrow 2a = 6$$

$$\Rightarrow a = 3$$

Substituting the value of 'a' in one of the equations, we get:

$$\Rightarrow 3 - b = 2$$

$$\Rightarrow b = 1$$

Therefore, the speed of the stream is 1 km/hr.

34. Answer: b

Explanation:

Given:

$$\frac{36 \div 9 \times 5 \div 15 + 7 \times 3}{6 \div 12 \times 3 \div 12 + 8 \times 3}$$

Concept used:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Calculation:

$$\frac{36 \div 9 \times 5 \div 15 + 7 \times 3}{6 \div 12 \times 3 \div 12 + 8 \times 3}$$

$$\Rightarrow \frac{4 \times \frac{1}{5} + 21}{\frac{3}{2} + 24}$$

$$\Rightarrow \frac{\frac{67}{5}}{\frac{49}{2}}$$

$$\Rightarrow \frac{536}{579}$$

∴ Option 2 is the correct answer.

35. Answer: a

Explanation:

Calculation:

$$\frac{18}{60} \times \frac{15}{108} \times ? = 19$$

$$\Rightarrow ? = 19 \times 6 \times 4$$

$$\Rightarrow ? = 456$$

∴ Option 1 is the correct answer.

36. Answer: c

Explanation:

Given

$$Q = 300 \text{ and } P : Q = 4 : 5.$$

Calculation:

$$\text{So, } Q = 300 \text{ and } P : Q = 4 : 5.$$

$$P = \left(\frac{4}{5}\right)Q = \left(\frac{4}{5}\right) \times 300 = 240.$$

Also, R is 15% less than Q.

$$\Rightarrow R = Q - 15\% \text{ of } Q$$

$$\Rightarrow R = Q - 0.15Q$$

$$\Rightarrow R = 0.85Q$$

Substituting the value of Q, we get:

$$\Rightarrow R = 0.85 \times 300 = 255$$

So, the sum of P and R is:

$$\Rightarrow P + R = 240 + 255 = 495$$

Therefore, the sum of P and R is 495.

37. Answer: c

Explanation:

Given:

The value of P varies directly as the square of Q.

Concept:

When two quantities are directly proportional to each other, then their ratio is constant. In this case, since P varies directly as the square of Q, we can write:

$$P/Q^2 = k$$

where k is the constant of proportionality.

Calculation:

To find the value of k, we can use the given information that when Q is 4, P is 48:

$$\Rightarrow 48/4^2 = k$$

$$\Rightarrow k = 3$$

So, we have:

$$\Rightarrow P/Q^2 = 3$$

To find the value of Q when P is 243, we can substitute these values in the above equation and solve for Q:

$$\Rightarrow 243/Q^2 = 3$$

$$\Rightarrow Q^2 = 81$$

$$\Rightarrow Q = \pm 9$$

Since Q has to be a positive quantity, the value of Q is 9.

Therefore, when P is 243, the value of Q is 9.

38. Answer: c

Explanation:

Given:

On selling 18 pens at Rs. 660, there is a profit equal to the cost price of 4 pens.

Solution:

Let the cost price of one pen be x.

Then, the cost price of 18 pens = $18x$

Since there is a profit equal to the cost price of 4 pens, the selling price of 18 pens = cost price of 18 pens + cost price of 4 pens

Selling price of 18 pens = $18x + 4x = 22x$

Given that the selling price of 18 pens is Rs. 660.

So, we have:

$$22x = 660$$

$$x = 30$$

Therefore, the cost price of one pen is Rs. 30.

39. Answer: c

Explanation:

Given:

A camp of 250 soldiers has food for 600 days. After 60 days, 50 soldiers leave the camp.

Concept Used:

$$m_1d_1 = m_2d_2$$

Calculation:

Let's assume the remaining food last from the time that these 50 soldiers left is 'x' days.

$$\Rightarrow 250 \times 600 = 250 \times 600 + (250 - 50) \times x$$

$$\Rightarrow 250 \times 600 = 250 \times 600 + (200) \times x$$

$$\Rightarrow 250 \times 3 = 25 \times 3 + x$$

$$\Rightarrow x = 750 - 75$$

$$\Rightarrow x = 675$$

Therefore, the remaining food will last for 675 days from the time that these 50 soldiers left.

Your Personal Exams Guide

40. Answer: a**Explanation:****Given:**

Vishal and Param sold their articles at Rs. 1,818.

Vishal incurred a loss of 10%.

Param gained by 1%.

Solution:

Let the cost price of Vishal's article be V and the cost price of Param's article be P.

Vishal incurred a loss of 10%, so his selling price is 90% of his cost price.

Param gained by 1%, so his selling price is 101% of his cost price.

Since both of them sold their articles at the same price, we can equate their selling prices:

$$0.9V = 1.01P$$

Simplifying the above equation, we get:

$$V/P = 101/90$$

Therefore, the ratio of the cost price of Vishal's article to that of Param's article is 101 : 90.

41. Answer: d

Explanation:

Given:

Principal amount (P) = Rs. 2,400

Simple Interest (SI) = Rs. 504

Time (t) = 3 years

Concept used:

$$SI = (PRT) / 100$$

Solution:

We can use the Simple Interest formula to find the rate of interest per annum.

$$SI = (PRT) / 100$$

$$\Rightarrow 504 = (2400 \times R \times 3) / 100$$

$$\Rightarrow 50400 = 7200 \times R$$

$$\Rightarrow R = 7\%$$

Therefore, the rate of interest per annum is 7%.

42. Answer: a

Explanation:

Given:

The average of 12 numbers is M

The average of 8 of these numbers is P

Formula:

Average = (Sum of numbers) / (Number of numbers)

Solution:

Average of 12 numbers = M

Average of 8 of these numbers = P

Average of remaining 4 numbers = N (let)

The total sum of 12 numbers = 12M

The total sum of 8 of these numbers = 8P

The total sum of the remaining 4 numbers = 4N

We know that the sum of 12 numbers = sum of 8 numbers + sum of the remaining 4 numbers

$$\Rightarrow 12M = 8P + 4N$$

Simplifying this equation, we get:

$$\Rightarrow 3M = 2P + N$$

Therefore, the correct option is (A) $3M = 2P + N$.

43. Answer: c

Explanation:

Given:

The ratio of steel and iron imported in 2018 = 3 : 2

The ratio of steel and iron imported in 2020 = 1 : 1

The ratio of steel imported in 2018 and 2020 = 4 : 3

Calculation:

Let's assume the quantities imported of steel and iron in 2018 were $3x$ and $2x$ respectively. Similarly, let's assume that the quantities imported in 2020 were y each.

From the given information, we can write:

$$3x/y = 4/3$$

Solving for x/y , we get:

$$x/y = 4/9$$

We know that the ratio of the quantities imported of steel and iron in 2020 was 1 : 1, so the quantities imported of steel and iron in 2020 were y and y , respectively.

To find the quantities imported of iron in 2018, we can use the ratio of the quantities imported of steel and iron in 2018, which is 3 : 2. We already know that the quantity imported of steel in 2018 was $3x$, so the quantity imported of iron in 2018 was:

$$2/3 \times 3x = 2x$$

Therefore, the ratio of the quantities imported of iron in 2018 and 2020 was:

$$2x : y$$

Substituting $x/y = 4/9$, we get:

$$2x : y = 8/9 : 1$$

Hence, the ratio of the quantities imported of iron in 2018 and 2020 was 8 : 9.

44. Answer: d

Explanation:

Given:

Radii of three smaller circular fields are 8 m, 9 m, and 12 m.

Let the radius of the larger circular field be "r".

Formula used:

Area of a circle = πr^2

Calculation:

We know that the area of the larger circular field is equal to the sum of the areas of three smaller circular fields.

So,

$$\Rightarrow \pi r^2 = \pi(8^2) + \pi(9^2) + \pi(12^2)$$

$$\Rightarrow \pi r^2 = \pi(64) + \pi(81) + \pi(144)$$

$$\Rightarrow \pi r^2 = \pi(289)$$

$$\Rightarrow r^2 = 289$$

$$\Rightarrow r = 17 \text{ m}$$

Therefore, the radius of the larger circular field is 17 m.

45. Answer: b

Explanation:

Given:

The average age of two friends, A and B, is 24 years.

The average age of A, B, and C is 22 years.

To find: Age of C.

Formula:

$$\text{Average} = (\text{Sum of observations}) / (\text{Number of observations})$$

Calculation:

Let's assume the age of C is x.

Then, we can use the formula for the average:

$$\text{Average} = (\text{Sum of observations}) / (\text{Number of observations})$$

The average age of A and B is 24.

So, the sum of their ages is $(24 \times 2) = 48$.

The average age of A, B, and C is 22.

So, the sum of their ages is $(22 \times 3) = 66$.

Now, we can use these two equations to find the age of C:

$$\Rightarrow (\text{Age of A} + \text{Age of B} + \text{Age of C}) - (\text{Age of A} + \text{Age of B}) = \text{Age of C}$$

$$\Rightarrow 66 - 48 = \text{Age of C}$$

$$\Rightarrow \text{Age of C} = 18$$

Therefore, the age of C is 18 years.

46. Answer: c

Explanation:

Given:

The radius of the common base of the cone and the hemisphere = 15 cm

Volume of the toy = $2850\pi \text{ cm}^3$

Formula Used:

Volume of a Cone = $\frac{1}{3} \times \pi \times r^2 \times h$

Volume of a Hemisphere = $\frac{2}{3} \times \pi \times r^3$

Curved Surface Area of a Hemisphere = $2 \times \pi \times r^2$

Curved Surface Area of a Cone = $\pi \times r \times \sqrt{(h^2 + r^2)}$

Total Surface Area of the Toy = Total Surface Area of the Hemisphere + Curved Surface Area of the Cone

Solution:

Let the radius of the hemisphere be r and the height of the cone be h .

The volume of the toy = Volume of the hemisphere + Volume of the cone

$$\Rightarrow \frac{2}{3} \times \pi \times r^3 + \frac{1}{3} \times \pi \times r^2 \times h = 2850\pi$$

$$\Rightarrow \frac{2}{3} \times \pi \times 15^3 + \frac{1}{3} \times \pi \times 15^2 \times h = 2850\pi$$

$$\Rightarrow 2250 + 75h = 2850$$

$$\Rightarrow 75h = 600$$

$$\Rightarrow h = 8 \text{ cm}$$

Total Surface Area of the Toy = Curved Surface Area of the Hemisphere + Curved Surface Area of the Cone

$$\Rightarrow 2 \times \pi \times r^2 + \pi \times r \times \sqrt{(h^2 + r^2)}$$

$$\Rightarrow 2 \times \pi \times 15^2 + \pi \times 15 \times \sqrt{(8^2 + 15^2)}$$

$$\Rightarrow 450\pi + \pi \times 15 \times \sqrt{17^2}$$

$$\Rightarrow 450\pi + \pi \times 15 \times 17$$

$$\Rightarrow 450\pi + 255\pi$$

$$\Rightarrow 705\pi$$

\therefore Option 3 is the correct answer.

47. Answer: c

Explanation:

Given:

Discount percentage = 14%

Desired profit percentage = 8%

Let the cost price of the goods be C.

Formula:

Profit = Selling price - Cost price

Profit percentage = Profit/Cost price * 100

Solution:

Let the Cost Price of the article be 100.

After giving a discount of 14%, the Selling Price would be:

$$= 86\% \text{ of } 100$$

$$= \text{Rs. } 86$$

Now, the Shopkeeper wants to make a profit of 8%.

Therefore, the Selling Price = Cost Price + Profit

$$= \text{Cost Price} + 8\% \text{ of Cost Price}$$

$$= 1.08 \times \text{Cost Price}$$

Hence, $1.08 \times \text{Cost Price} = 86$

Therefore, the Cost Price = $86/1.08$

= Rs. 79.63 (approx.)

So, the Shopkeeper should mark the Selling Price of the article as approximately 25.6% above the Cost Price.

Therefore, the approximate percentage above the Cost Price he should mark his goods is 25.6%.

48. Answer: a

Explanation:

Calculation:

Total number of participants in Music or Plays from classes X and VII = $600 + 250 = 850$

Number of students who participate in Music or Plays from class X = $(12 + 8)/100 \times 600 = 120$

Number of students who participate in Music or Plays from class X = $600 - 120 = 480$

Number of students who participate in Music or Plays from class VII = $(12 + 10)/100 \times 250 = 55$

Number of students who participate in Music or Plays from class VII = $250 - 55 = 195$

Total number of students who do not participate from class X and VII = $480 + 195 = 675$

49. Answer: a

Explanation:

Given:

$$C.I = 864$$

$$\text{Rate} = 16\%$$

$$\text{Time} = 2 \text{ years}$$

Formula Used:

$$A = P(1+r/100)^t$$

$$C.I = A - P$$

Calculations :

Substituting the values in the formula

$$A = P(1+16/100)^2$$

$$A/P = (116/100)^2$$

$$\Rightarrow A/P = (29/25)^2$$

$$\Rightarrow A/P = 841/625$$

$$\text{Let } A = 841x \text{ and } P = 625x$$

$$C.I = A - P = 841x - 625x = 216x$$

$$\Rightarrow 864 = 216x$$

$$\Rightarrow x = 4$$

$$P = 625x = 625 \times 4 = 2500$$

\therefore Option 1 is the correct answer.

50. Answer: a

Explanation:

Concept used:

Concept of LCM

Calculation:

LCM of 16, 24, and 28 = 336

We need the remainders 13, 21, 16 and 25

$$\Rightarrow 16 - 13 = 3, 24 - 21 = 3, 28 - 25 = 3$$

\therefore The difference is 3 in each case

$$\Rightarrow \text{We need to subtract 3 from the LCM of 16, 24, and 28} = 336 - 3 = 333$$

\therefore Least number = 333

\therefore Option 1 is the correct answer.

51. Answer: d

Explanation:

The correct answer is Lenient

★ Key Points

- **Antonym** means a phrase or word with the opposite meaning as another phrase or word.
- The word **Rigorous** is an adjective which means extremely thorough and meticulous.

Example: The rules must be **rigorously** followed

- The word **Lenient** is an adjective which means kinder or more tolerant than expected.

Example: The judge was far too **lenient** with him.

- The meaning of word *Rigorous* is opposite of the meaning of word *Lenient*. Hence **Option 4 Lenient** is the answer.

★ Additional Information

- The word **Exhausting** is an adjective which means very tiring.

Example: The day was really **exhausting**.

- The word **Sweaty** is an adjective which means soaked in sweat.

Example: We are **sweaty** after playing cricket.

- The word **Oppressive** is an adjective which means Using harsh and authoritarian methods.

Example: I feel that these laws are **oppressive**.

52. **Answer: b**

Explanation:

The correct answer is **Resigned**

★ Key Points

- The word **resigned** is past form of verb resign.
- The word **resign** means voluntarily leaving a job or position.

Example: I would like to **resign** from this position.

- -ed is added to verbs to form their **past tense or their past participle**.
- The above sentence is of **past simple tense** hence the word resigned is used instead of resigns.

★ Additional Information

Tenses Chart

Tenses	Rules and Formula
Simple Present Tense	Subject + Verb in the base form/third person plural form + the rest of the sentence
Present Continuous Tense	Subject + Helping Verb(am/is/are) + Main verb + ing + the rest of the sentence
Present Perfect Tense	Subject + Helping Verb (have/has) + Past participle of the main verb + the rest of the sentence along with the time frame
Present Perfect Continuous Tense	Subject + Have/Has + Been + Verb+ ing + the rest of the sentence
Simple Past Tense	Subject + Verb + ed / verb in the past tense + the rest of the sentence
Past Continuous Tense	Subject + Helping Verb(was/were) + Main verb + ing + the rest of the sentence
Past Perfect Tense	Subject + Helping Verb (had) + Past participle of the main verb + the rest of the sentence along with the time frame.
Past Perfect Continuous Tense	Subject + Had + Been + Verb + ing + the rest of the sentence

Simple Future Tense	Subject + will/shall + V1 + Object
Future Continuous Tense	Subject + will be/shall be + V1 + ing + Object
Future Perfect Tense	Subject + will have/shall have + V3 + Object
Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

53. Answer: c

Explanation:

The correct answer is alion

★ Key Points

- In the above sentence there should be **lion's instead of lion** .
- The word tiger's is a **plural verb** and the word lion is a **singular verb** .
- A **plural verb cannot be compared with a singular verb** , as done in above sentence.
- In the above sentence there is a similarity shown between the tiger's skull and a lion's skull. Hence **the correct answer is option 3 a lion**.

★ Additional Information

- A singular noun is a word that refers to one person, place, thing, event, substance, or quantity.

Examples : Lisa bought a pencil yesterday, Dan and Sid gave me chocolate .

- A plural noun is a word that refers to more than one person , place , event or thing.

Example : All the buses are parked in parking area , My mother got me few dresses yesterday.

54. Answer: b

Explanation:

The correct answer is also

★ Key Points

- The word also is an **adverb**
- The word **also** mean in **addition, including , or further adding.**

Example : She is a good wife and **also** a fine actress.

- Also takes up different positions in a sentence. We use "also" in **front position to emphasis what comes after or to introduce a new point or topic.**

Example: It's extremely humid. You can **also** easily get sunburned.

★ Additional Information

- An **adverb** is a word or phrase that modifies or qualifies an adjective, verb, other adverb, or a word group, expressing a relationship of place, time, circumstance, manner, cause, degree, and so on.

Example : **Quickly, slowly, yesterday, last week, here, there, today, daily, never, rarely, extremely, annually, etc .,** are some examples of adverbs.

55. Answer: c

Explanation:

The correct answer is Take a

★ Key Points

- The word **take** is a verb which means **holding or grasping something**.
- We use "**a**" prior a word which gives **consonant like sound**.
- The **meaning of above sentence** is that the bank was ready to hold a chance and lend 40% of purchase price to him.
- The word **take a** makes the above sentence meaningful, hence option 3 is the correct answer.

★ Additional Information

- The word **make is a verb** which means forming or creating something from pieces.

Example : Let's **make** a difference together.

- The word **spare is a verb** which means to save someone or something from harm, damage, or death

Example : The teacher **spared** Jack for last time from suspension.

- The word **see is a verb** which means Visual perception; visual discernment

Example : All I can **see** was him.

- If the first letter makes a **vowel-like sound** , you use "**an**" ; if it makes a **consonant-like sound** , you use "**a**."

Example : An apple, a watermelon

56. **Answer: c**

Explanation:

The correct answer is There demands

★ Key Points

- There is an error in **there demands** , instead of there demands it should be **their demands** .

- The **meaning of above sentence** is that along with people their demands are also growing but the land available is limited.
- **There** is used in a sentence if you are introducing a sentence or discussing a specific location while **their** is used in a sentence if you are describing a noun that someone owns, which is third possessive form of word "**they**".

★ Additional Information

- The word **their** means belonging to or associated with the previously mentioned or easily identified people or things.

Example : This is **their** property.

- The word **there** means in, at, or to that location or position.

Example : Come on lets go **there** .

57. Answer: d

Explanation:

The correct answer is narrow

★ Key Points

- The word **narrow is an adjective** which means limited in size, quantity, or scope.

Example : My parents have a **narrow** mindset.

- The **above sentence means** that there's an article which presents a narrow mindset that's very frustrating.

★ Additional Information

- An **adjective** is a word describing a noun's attribute, such as sweet, red, or technical

Example : Beautiful , small , large, ugly

- The word **wide** is an adjective which means including a great range of people or things

Example : India have a **wide** variety of spices.

- The word **small** is an adjective which means of a size that is less than normal or usual.

Example : This a **small** mango.

- The word **bigger** is an adjective which means of huge size.

Example : This apple is **bigger** than that one.

58. Answer: d

Explanation:

The correct answer is no improvement required

★ Key Points

- The underlined part is correct there is **no need of improvement**.
- The word "**more often**" means everyday or constantly or usually.
- It is used to **express relative frequency**.

Example : I wish he would text me **more often**.

★ Additional Information

Tenses Chart

Tenses	Rules and Formula
Simple Present Tense	Subject + Verb in the base form/third person plural form + the rest of the sentence
Present Continuous Tense	Subject + Helping Verb(am/is/are) + Main verb + ing + the rest of the sentence
Present Perfect Tense	Subject + Helping Verb (have/has) + Past participle of the main verb + the rest of the sentence along with the time frame
Present Perfect Continuous Tense	Subject + Have/Has + Been + Verb+ ing + the rest of the sentence
Simple Past Tense	Subject + Verb + ed / verb in the past tense + the rest of the sentence
Past Continuous Tense	Subject + Helping Verb(was/were) + Main verb + ing + the rest of the sentence
Past Perfect Tense	Subject + Helping Verb (had) + Past participle of the main verb + the rest of the sentence along with the time frame.
Past Perfect Continuous Tense	Subject + Had + Been + Verb + ing + the rest of the sentence

Simple Future Tense	Subject + will/shall + V1 + Object
Future Continuous Tense	Subject + will be/shall be + V1 + ing + Object
Future Perfect Tense	Subject + will have/shall have + V3 + Object
Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

59. Answer: b

Explanation:

The correct answer is suspect trickery or deception.

★ Key Points

- The idiom **smell a rat** means to notice that something is not as it appears or that something dishonest is taking place

Example : They claim they will honor the terms of the contract, but I **smell a rat**.

- This **phrase is used** when you have a strong suspicion that something is wrong in a specific situation.
- The **meaning of above sentence** is " I always have a suspicion when John says that he is going for extra classes.

★ Additional Information

Some more idioms related to rat's are :

- **Rat out somebody** - to inform an authority figure about something wrong that has occurred

Example : The students were planning to bunk the class but some students **ratted them out**.

- **The rat race** - an unpleasant, overly competitive way of life in which people compete for power and money and have no time to have fun

Example : Today's schooling system is just **a rat race**.

- **Look like a drowned rat** - to appear drenched and uncomfortable

Example : James was looking **like a drowned rat**.

60. Answer: b

Explanation:

The correct answer is understood

★ Key Points

- The word **understood** is the **past form** of word understand.
- The word **Understand** is a verb which means perceive the intended meaning of

Example : I hope you all have **understood** today's topic.

- The word understood is used when the sentence is in **past tense** .

★ Additional Information

- The word **realised** is the past form of word **realize** which means become completely aware of (something) as a fact; comprehend clearly

Example : I **realised** how wrong I was.

- The word **memorised** is the past form of word **memorize** which means learn by heart.

Example : We **memorised** bible.

- The word **completed** is the past form of word **complete** which means to finish something.

Example : I have **completed** all my work.

61. Answer: c

Explanation:

The correct answer is **Reserved**

★ Key Points

- The word **reserved** is an adjective which means slow to express feelings or opinions.

Example : I like to be **reserved** .

- **Synonyms** of word Reserved are reticent, restrained, quiet, private, self-contained, uncommunicative, unforth, coming, undemonstrative, unsociable, formal.
- **Antonym** of word Reserved are outgoing, open , free.

★ Additional Information

- The word **Garrulous** is an adjective which means excessively chatty, especially about trivial matters

Example : If someone is **garrulous** , he doesn't just like to talk

- The word **Voluble** is an adjective which means talking rapidly, easily, or incessantly

Example : She was funny , smart and **voluble** .

- The word **Imperceptible** is an adjective which means so slight, gradual, or subtle as to be imperceptible

Example : Lisa's hesitation was almost **imperceptible**

62. Answer: d

Explanation:

The correct answer is Gone bananas

★ Key Points

- The word become **Irrational** means something which is not logical or reasonable(कुछ जो तार्किक या उचित नहीं है).
- The phrase **Gone bananas** means to be mad(पागल होना).
- The **meaning of above sentence** is that Roy's customers feel that the council have gone mad or illogical.(**Roy** के ग्राहक महसूस करते हैं कि परिषद पागल या अतार्किक हो गई है।)
- The meaning of word and the phrase matches , hence the **correct answer is option 4 Gone bananas.**

★ Additional Information

- The phrase **Too much on their plates** means have a lot of things to deal.

Example : No more work please, I already have **too much on my plate.**

- The phrase **Browned off** means annoyed or unhappy about something.

Example : I am sorry , I was just so **browned off.**

- The phrase **A piece of cake** means something easy to do.

Example : This puzzle is **a piece of cake** for me.

63. Answer: b

Explanation:

The correct answer is Dejected

★ Key Points

- **Antonym** means a phrase or word with the opposite meaning as another phrase or word.
- The word **Ebullient** means cheerful and full of energy

Example : She is an honest and **ebullient** girl.

- The word **Dejected** means sad and depressed.

Example : I am feeling very **dejected** today.

- The meaning of word **Ebullient** is opposite of the meaning of word dejected . Hence Option 2 Dejected is the answer.

★ **Additional Information**

- The word **carefree** means free from anxiety and stress.

Example : I wish I could be as **carefree** as him.

- The word **Buoyant** means ability of floating on top.

Example : Warm air is more **buoyant** than cool air

- The word **Roguish** means a trait of a dishonest or unprincipled person

Example : He played a rather **roguish** character in the film.

Your Personal Exams Guide

64. **Answer: a**

Explanation:

The correct answer is No longer stay

★ **Key Points**

- There should be **no longer stay** instead of **none long stay** .
- The **above sentence means** that the family cant stay in their big house anymore.

- None is **pronoun form** of no. It is used to replace countable and uncountable nouns as a pronoun.

★ Additional Information

- **Determiners** are a word that modifies the type of reference a noun or noun group has, such as a, the, or every.
- **Determiners include** articles (a, an, the), cardinal and ordinal numbers (one, two, three...), demonstratives (this, that, these, those), partitives (some of, piece of, and others), quantifiers (most, all, and others), and difference words (other, another).
- Example : I like **this** new book.

65. Answer: c

Explanation:

The correct answer is Furious

★ Key Points

- **SYNONYM** is a phrase or word with the same or well almost the same meaning as another phrase or word.
- The word **Enraged** means very angry

Example : He is **enraged** at Lisa.

- The word **Furious** means extremely angry.

Example : My father is really **furious** at me today.

★ Additional Information

- The word **Peaceful** means free from fights , wars and chaos.

Example : Switzerland is a **peaceful** country.

- The word **Fortunate** means good luck or being lucky.

Example : I am very **fortunate** to have you.

- The word **Elated** means ecstatically happy

Example : After the dance, I felt **elated** .

66. Answer: a

Explanation:

The correct answer is Foriegn

★ Key Points

- The correct spelling will be **Foreign** .
- The word **Foreign** means some other country.

Example : I like this **foreign** cuisine.

★ Additional Information

- All other words are **spelt correctly**.
- The word **Secondary** means coming after primary, not very important.

Example : This plot if of **secondary** importance.

- The word **Evince** means to indicate

Example : She **evinced** an interest in art at an early age.

- The word **Portfolio** means a collection of investments owned by a person or organization.

Example : She have an impressive **portfolio** .

67. Answer: a

Explanation:

The correct answer is Atrocious

★ Key Points

- **SYNONYM** is a phrase or word with the same or well almost the same meaning as another phrase or word.
- The word **Flagrant** means blatantly or obviously offensive.

Example : This is the most **flagrant** and outrageous use of her position

- The word **Atrocious** means horrifyingly evil

Example : The weather has been **atrocious** all week.

★ Additional Information

- The word **Favourable** means showing approval.

Example : Today is a **favourable** day for picnic.

- The word **Wonderful** means extremely good, delightful

Example : I had a **wonderful** evening.

- The word **Magnificent** means extremely beautiful and impressive.

Example : What a **magnificent** piece of art.

68. Answer: c

Explanation:

The correct answer is no substitution required.

★ Key Points

- The above sentence is correct

- There is no grammatical error.
- The sentence formation is also correct.
- The above sentence make a proper meaning.

★ Additional Information

Tenses Chart

prepp

Your Personal Exams Guide

Tenses	Rules and Formula
Simple Present Tense	Subject + Verb in the base form/third person plural form + the rest of the sentence
Present Continuous Tense	Subject + Helping Verb(am/is/are) + Main verb + ing + the rest of the sentence
Present Perfect Tense	Subject + Helping Verb (have/has) + Past participle of the main verb + the rest of the sentence along with the time frame
Present Perfect Continuous Tense	Subject + Have/Has + Been + Verb+ ing + the rest of the sentence
Simple Past Tense	Subject + Verb + ed / verb in the past tense + the rest of the sentence
Past Continuous Tense	Subject + Helping Verb(was/were) + Main verb + ing + the rest of the sentence
Past Perfect Tense	Subject + Helping Verb (had) + Past participle of the main verb + the rest of the sentence along with the time frame.
Past Perfect Continuous Tense	Subject + Had + Been + Verb + ing + the rest of the sentence

Simple Future Tense	Subject + will/shall + V1 + Object
Future Continuous Tense	Subject + will be/shall be + V1 + ing + Object
Future Perfect Tense	Subject + will have/shall have + V3 + Object
Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

69. Answer: a

Explanation:

The correct answer is Strengthen.

★ Key Points

- The word strengthen is correctly spelt.
- The word strengthen means to make or become stronger.

Example : This shampoo strengthen weak hair.

★ Additional Information

- The correct spelling or word Equipment will be Equipment

Example : These equipment's are required for plant tissue culture.

The correct spelling for word Instrumentle will be Instrumental .

Example : Tonight there is a music instrumental .

The correct spelling for word Reverel will be Reversal .

Example : He reversed the position of the two stamps

70. Answer: b

Explanation:

The correct answer is fast enough to controlled

★ Key Points

- There should be **fast enough control** instead of **fast enough controlled**.
- **-ed** is added to verbs to form their **past tense or their past participle** .
- **Example** : I **used** this pencil.

★ Additional Information

Tenses Chart

prepp

Your Personal Exams Guide

Tenses	Rules and Formula
Simple Present Tense	Subject + Verb in the base form/third person plural form + the rest of the sentence
Present Continuous Tense	Subject + Helping Verb(am/is/are) + Main verb + ing + the rest of the sentence
Present Perfect Tense	Subject + Helping Verb (have/has) + Past participle of the main verb + the rest of the sentence along with the time frame
Present Perfect Continuous Tense	Subject + Have/Has + Been + Verb+ ing + the rest of the sentence
Simple Past Tense	Subject + Verb + ed / verb in the past tense + the rest of the sentence
Past Continuous Tense	Subject + Helping Verb(was/were) + Main verb + ing + the rest of the sentence
Past Perfect Tense	Subject + Helping Verb (had) + Past participle of the main verb + the rest of the sentence along with the time frame.
Past Perfect Continuous Tense	Subject + Had + Been + Verb + ing + the rest of the sentence

Simple Future Tense	Subject + will/shall + V1 + Object
Future Continuous Tense	Subject + will be/shall be + V1 + ing + Object
Future Perfect Tense	Subject + will have/shall have + V3 + Object
Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

71. Answer: c

Explanation:

The correct answer is both

★ Key Points

- The word **both** is a **predeterminer** which is used for emphasis to refer to two people or things that are considered and identified as one.

Example : I love **both** pizza and burger.

- The **meaning of the above sentence** is that The elephant island got its name due to both its elephant head-like appearance and the sighting of elephant seals.
- **Determiner** is a word used at the start of a noun group to indicate, for example, which thing you are referring to or whether you are referring to one or several things.
- **Pre determiners** are a word or phrase that comes before a determiner and usually quantifies the noun phrase, Example - both or a lot of.

★ Additional Information

- The word **also** is an adverb which means in addition.

Example : You can **also** come with us.

The word **Either** is a determiner or pronoun which means one or the other of two people or things.

Example :**Either** me or her? choose one!

The word **neither** is a determiner which means not the one nor other.

Example :**Neither** this nor that.

72. Answer: c

Explanation:

The correct answer is by.

★ Key Points

- **By** is used as a **preposition** in above sentence.
- Here **by** is used to signify the Captain George Powell sight elephant seal.
- **By** is a **preposition** which indicates a method of accomplishing something.
- *Example* : I went to school **by** car.

★ Additional Information

- **From** is a preposition which means indicating the location in space where a journey, motion, or action begins.

Example : I am **from** delhi.

- **Through** is a preposition which means moving in one direction and out of the other (an opening, channel, or location).

Example : We need to pass **through** a tunnel.

- **Among** is a preposition which means located somewhat centrally in relation to (several other things).

Example : He is **among** the top scorers of the class.

73. Answer: b

Explanation:

The correct answer is earliest.

★ Key Points

- The word **earliest** is the superlative degree of adjective **early** .
- The word **early** means done before expected time.

Example : The teacher came **early** to class today.

- An **adjective** is a word describing a noun's attribute, such as sweet, red, or technical.

Example : You are **late** today.

★ Additional Information

- **Comparative adjectives** compare two people or things.

Example : I am **taller** than you.

- **Superlative adjectives** compare more than two people or things.

Example : Usain bolt is the **fastest** runner in the world.

74. Answer: c

Explanation:

The correct answer is However.

★ Key Points

- The word however is an adverb .
- The word However is used to introduce a statement that contrasts with or appears to contradict something previously said.

Example : Meera is a good girl however she is annoying sometimes.

- An adverb is a word or phrase that modifies or qualifies an adjective, verb, other adverb, or a word group, expressing a relationship of place, time, circumstance, manner, cause, degree, and so on.

Example : very loud. tall, quickly

★ Additional Information

- The word Thus is an adverb which means as a result.

Example : I am ill Thus I wont be able to attend class.

- The word Thereby is an adverb which means because of that.

Example : He signed the contract, thereby forfeiting his right to the property.

- The word Therefore is an adverb which means consequently.

Example : She is rich therefore she developed ego.

Your Personal Exams Guide

75. Answer: a

Explanation:

The correct answer is Given

★ Key Points

- The word **Given** is past participle of the word give.
- The word **Give** means to Transfer something freely.

Example : I am **given** the duty to clean dishes.

- An **Adjective** is a word describing a noun's attribute, such as sweet, red, or technical.

★ Additional Information

- The word **released** is the past tense of word release which means to allow something to escape.

Example : The movie premier was **released** today.

- The word **sorted** is an adjective which means satisfactorily organized, arranged, or dealt with

Example : Things between us got **sorted** .

- The word **Looked** is the past tense of word look which means one's gaze is directed toward someone or something, or in a specific direction.

Example : I **looked** back in hope that he will come back.

76. **Answer: c**

Explanation:

The correct answer is Kolkata.

★ Key Points

- Netaji Subhash Chandra Bose International Airport is located in Kolkata.
- Netaji Subhas Chandra Bose airport is one of the oldest airports in India.
- Netaji Subhas Chandra Bose International Airport which was earlier known as "Dum Dum Airport" is situated in Kolkata.
- It was opened in 1924 AD and it is the fifth-busiest airport in India.

★ Additional Information

List of some important airports in India and their location:

Airport	City
Sri Guru Ram Dass Jee International Airport.	Amritsar
Lokpriya Gopinath Bordoloi International Airport.	Guwahati
Veer Savarkar International Airport.	Port Blair
Kempegowda International Airport.	Bengaluru
Calicut International Airport.	Kerala
Raja Bhoj Airport.	Bhopal
Devi Ahilyabai Holkar Airport.	Indore
Dr. Babasaheb Ambedkar International Airport.	Nagpur
Lal Bahadur Shastri International Airport.	Varanasi
Chaudhary Charan Singh Airport.	Lucknow

77. Answer: d

Explanation:

The correct answer is two.

★ **Key Points**

- President Powers:
- Legislative Powers of the President:
 - He summons or prorogues Parliament and dissolves the Lok Sabha He summons a joint sitting of Lok Sabha and Rajya Sabha in case of deadlock.
 - He addresses the Indian Parliament at the commencement of the first session after every general election.
 - He appoints a speaker, deputy speaker of Lok Sabha, and chairman/deputy chairman of Rajya Sabha when the seats fall vacant (to know the difference between Lok Sabha and Rajya Sabha check the linked article),.

- He nominates 12 members of the Rajya Sabha.
- He can nominate two members to the Lok Sabha from the Anglo-Indian Community.
- He consults the Election Commission of India on questions of disqualifications of MPs.
- 104th Amendment Act, 2020:
 - Extended the deadline for the cessation of seats for SCs and STs in the Lok Sabha and states assemblies from Seventy years to Eighty.
 - Removed the reserved seats for the Anglo-Indian community in the Lok Sabha and state assemblies.

★ **Additional Information**

- Articles Related to the President of India:

Prepp

Your Personal Exams Guide

Article- No	Subject Matter
52	The President Of India
53	The executive power of the President
54	Election of the President
55	Manner of Election of the President
56	Term of office of president
57	Eligibility of re-election
58	Qualification for election as President
59	Conditions of the president's office
60	Oath or affirmation by the President
61	Procedure for impeachment of the President
62	Time of holding an election to fill a vacancy in the office of President

65	Vice President to act as president or to discharge his functions
71.	Matters relating to the election of the President
72	Powers of the president to grant pardons etc. and to suspend, remit or commute sentences in certain cases
74	Council of Ministers to aid and advise the President
75	Other provisions as to ministers like an appointment, terms, salaries, etc.
76	Attorney General of India
77	Conduct of business of the government of India
78	Duties of Prime Minister with respect to the furnishing of information to the president etc.
85	Sessions of parliaments, prorogations, and dissolution
111	Assent to bills passed by the parliaments
112	Union Budget (Annual Financial statement)
123	Power of President to promulgate ordinances

143

Power of President to consult the Supreme Court

78. Answer: a

Explanation:

The correct answer is Karan Johar.

★ Key Points

- Karan Johar has finally launched his autobiography. Titled An Unsuitable Boy, the book chronicles the life story of the celebrated filmmaker.
- The book is an honest, heart-warming, and personal account of Karan Johar's life and the business of Bollywood.
- Karan Johar is a director, screenwriter, producer, costume designer, actor, and television host.

★ Additional Information

- Akshay Kumar's actual name is Rajiv Hari Om Bhatia. He is an Actor and Producer.
- Akshay Kumar won many awards including National Film Festival Award.

Your Personal Exams Guide

79. Answer: c

Explanation:

The correct answer is Odissi.

★ Key Points

Odissi

- Odissi is one of the Classical dance forms of India which originates from the Odisha state of India.

- The examples of this dance can be seen in the Udayagiri and Khandagiri Caves in Odisha.
- The name came from 'odra nritya' which is mentioned in Natya Shastra.
- "Odissi" dance form represents Water.
- Minati Mishra was conferred with the Padma Shri for her significant contribution to Odissi.

★ **Additional Information**

- Kathak
 - Kathak originated from Uttar Pradesh.
 - It is one of the eight forms of ancient classical dances of India.
 - Famous Kathak dance is derived from Katha or storytellers.
- Kathakali
 - Kathakali is one performing art that distinguishes Kerala.
 - The words 'Katha' mean story and 'Kali' mean drama.
 - It is traditionally performed within the temple precincts.
 - The language used for Kathakali songs is Manipravalam, i.e. a mixture of Malayalam and Sanskrit.
- Bharatanatyam
 - Bharata Natyam is considered to be the oldest form of dance.
 - It is mother of all other styles of classical dance in India.
 - The classical Indian dance Bharatanatyam originated from the art of temple dancers in the South India state of Tamil Nadu.

80. Answer: b

Explanation:

The correct answer is Goal.

★ **Key Points**

- Tennis is a racket sport.
- VOLLEY – During play, a stroke made by hitting the ball before it has touched the ground.

- BACKHAND – The stroke used to return balls hit to the left side of a right-handed player (or to the right side of a left-handed player). Backhands are hit either one-handed or two-handed.
- DEUCE – A score of 40-all, or 40-40. (This means the score is tied and each side has won at least three points).
- Except for clinch all other terms used in the tennis game.
- **Goal** is associated with football.

★ Additional Information

- The four Grand Slam tournaments of Tennis:
 - the Australian Open played on hardcourts
 - the French Open, played on red clay courts
 - Wimbledon played on grass courts and
 - the US Open played on hard courts.

81. **Answer: d**

Explanation:

The correct answer is Indian Ocean.

★ Key Points

- The Indian Ocean on the south, the Arabian Sea on the west, and the Bay of Bengal on the east.
- In the north, India is attached to the landmass.
- A peninsula is a piece of land that is bordered by water on three sides but connected to the mainland.
- The length of the coastline in India is 7516.6 km Mainland.
- Indian coastline touches nine states Gujarat, Maharashtra, Goa, Karnataka, Kerala, Tamil Nadu, Andhra Pradesh, Odisha, West Bengal, and two union territories Daman and Diu and Puducherry.



★ Additional Information

• **Indian Ocean**

- The Indian Ocean is the third-largest of the world's five oceanic divisions, covering 70,560,000 km².
- The deepest point in the Indian Ocean, at 24,442 feet (7,450 meters).
- The deepest point in the Indian Ocean is the Sunda Deep of the Java Trench off the southern coast of the island of Java (Indonesia).
- The Indian Ocean has relatively few islands Madagascar, Maldives, Seychelles, Socotra, and Sri Lanka.
- The Indian Ocean Covers 20% of the Earth's Surface.
- The Ocean through 57 island groups,16 African countries, and,18 Asian countries is connected directly through its waters.
- The Indian Ocean Oil Deposit Accounts for 40% of World Production.

82. Answer: c

Explanation:

The correct answer is Three.

★ Key Points

- The population of a nation is, generally grouped into three broad categories:

- Children (generally below 15 years): They are economically unproductive and need to be provided with food, clothing, education and medical care.
- Working Age (15–59 years): They are economically productive and biologically reproductive. They comprise the working population.
- Aged (Above 59 years): They can be economically productive though they may have retired.
- They may be working voluntarily but they are not available for employment through recruitment.
- According to the Census 2011, a person aged 7 years and above, who can read and write with understanding in any language, is treated as literate.

83. Answer: b

Explanation:

The correct answer is Assam.

★ Key Points

- Bihu dance is an Indigenous folk dance of the Indian state of Assam.
- This dance is usually performed by young men and women.
- The dancing style is characterized by brisk steps and rapid hard movements.
- In this folk dance, the traditional costumes of dancers are colourful and centred around the red colour theme.
- The origin of this folk dance is unknown.
- The earliest depiction of Bihu dance is found in the 9th Century Sculptures.
- This dance is mainly found in the Tezpur and Darrang districts of Assam.
- It is mentioned in the inscriptions of the 14th Century, Chutia and Laxminarayan as well.
- Bihu dance is performed outdoors, in fields, groves, etc.
- This folk dance takes its name from the Bohag Bihu festival.
- Bohag Bihu festival is celebrated as New year in Assam.

★ Additional Information

- List of folk dances from different states:-

State	Folk Dance
Andhra Pradesh	Kuchipudi, Vilasini Natyam, Andhra Natyam, Bhamakalpam, Veeranatyam, Dappu, Tappeta Gullu, Lambadi, Dhimsa, Kolattam, Butta Bommalu.
Assam	Bihu, Bichhua, Natpuja, Maharas, Kaligopal, Bagurumba, Naga dance, Khel Gopal, Tabal Chongli, Canoe, Jhumura Hobjanai
Bihar	Jata-Jatin, Bakho-Bakhain, Panwariya, Sama Chakwa, Bidesia.
Gujarat	Garba, Dandiya Ras, Tippani Juriun.
Himachal Pradesh	Jhora, Jhali, Chharhi, Dhaman, Chhapeli, Mahasu, Nati, Dangi.
Chhattisgarh	Gaur Maria, Panthi, Raut Nacha, Pandwani, Vedamati, Kapalik, Bharthari Charit, Chandaini.
Jharkhand	Alkap, Karma Munda, Agni, Jhumar, Janani Jhumar, Mardana Jhumar, Paika, Phagua, Hunta Dance, Mundari Dance, Sarhul, Barao, Jhitka, Danga, Domkach, Ghora Naach.
Manipur	Dol Cholam, Thang-Ta, Lai Haraoba, Pung Cholom, Khamba Thaibi, Nupa Dance, Rasilila, Khubak Ishii, Lou Sha.
Madhya Pradesh	Jawara, Matki, Aada, Khada Nach, Phulpati, Grida Dance, Selalarki, Selabhadoni, Maanch.

84. Answer: a

Explanation:

The correct answer is Swami Dayanand Saraswati.

★ Key Points

- Arya Samaj
 - It is a monotheistic Indian Hindu reform movement that promotes values and practices based on the belief in the infallible authority of the Vedas.
 - Arya Samaj was founded by Swami Dayananda Saraswati in 1875 in Bombay. Hence, Option 2 is correct.
 - There are 10 principles related to Arya Samaj.
 - The famous freedom fighter Lala Lajpat Rai was his disciple.
 - Swami Dayananda Saraswati is known as the 'Grandfather of the Indian Nation'.
 - The original name of Swami Dayananda Saraswati is 'Mool Shankar'.

★ Additional Information

- Ishwar Chandra Vidyasagar
 - Ishwar Chandra Vidyasagar was an Indian educator and social reformer of the nineteenth century.
 - He is considered the "Father of Bengali prose".
 - He was the most prominent campaigner for Hindu widow remarriage.
 - His efforts came to fruition when Lord Dalhousie personally finalized the bill and the Hindu Widows' Remarriage Act, 1856 was passed. (Passed by Lord Canning)
- Raja Ram Mohan Roy
 - He is known as the 'Father of Indian Renaissance'.
 - He is also known as the 'Prophet of Indian Nationalism'.
 - He started Atmiya Sabha in 1814 and Brahmo Samaj in 1828.
 - He launched a movement for the abolition of Sati through his journals Sambad Kaumudi (1821) and Precepts of Jesus (1820).
 - The Mughal emperor Akbar II gave the title 'Raja' to Ram Mohan Roy.
- Swami Vivekananda
 - His original name was Narendranath Dutt.
 - He attended the Parliament of Religions held in Chicago in 1893 AD and published two papers, Prabhudhha Bharat in English and Udbodhana in Bengali.
 - He urged people to inculcate the spirit of liberty, equality, and free-thinking.
 - He worked for the emancipation of women.
 - He emerged as a preacher of Neo-Hinduism.

- He advocated the Doctrine of Service—the service of all human beings.
- He was considered the spiritual father of the modern nationalist movement.

85. Answer: c

Explanation:

The correct answer is Ravi Dahiya.

★ Key Points

- Indian wrestler Ravi Kumar Dahiya clinched an Olympic silver medal Men's 57 kg freestyle.
 - He lost the final to Russian two-time defending world champion Zaur Uguev.
 - He belongs to Nahri village in Haryana.



★ Additional Information

- India's medals at the Tokyo Olympics

Athlete	Medal	Event
Mirabai Chanu	Silver	Women's 49kg weightlifting
Lovlina Borgohain	Bronze	Women's welterweight boxing
PV Sindhu	Bronze	Women's singles badminton
Ravi Kumar Dahiya	Silver	Men's 57kg wrestling
Indian hockey team	Bronze	Men's hockey
Bajrang Punia	Bronze	Men's 65kg wrestling
Neeraj Chopra	Gold	Men's javelin throw

86. Answer: b

Explanation:

The correct answer is 1932.

★ Key Points

- The **aviation sector** was inaugurated in India in the year **1932** with the establishment of **Tata Airlines**, which later became **Air India**.

- Tata Airlines, **later renamed Air India**, was the **first airline to operate in India**.
- **It initially flew between Mumbai and Karachi**.
- Air India became one of **India's largest airlines and played a significant role in the development of the country's aviation sector**.
- Today, the **Indian aviation sector is one of the fastest-growing in the world**, with several **airlines operating both domestic and international flights**.

★ Additional Information

City	Airport Name	Airport Code
Mumbai	Chhatrapati Shivaji Maharaj	BOM
Delhi	Indira Gandhi International	DEL
Bangalore	Kempegowda International	BLR
Hyderabad	Rajiv Gandhi International	HYD
Chennai	Chennai International	MAA
Kolkata	Netaji Subhash Chandra Bose	CCU
Ahmedabad	Sardar Vallabhbhai Patel International	AMD
Pune	Pune International	PNQ
Goa	Goa International	GOI
Jaipur	Jaipur International	JAI
Lucknow	Chaudhary Charan Singh International	LKO
Kochi	Cochin International	COK
Amritsar	Sri Guru Ram Dass Jee International	ATQ
Thiruvananthapuram	Trivandrum International	TRV

87. Answer: d

Explanation:

The correct answer is Both I and II.

★ Key Points

- **Gautama Buddha was born into the Shakya clan, which was a small republic in ancient India located in the foothills of the Himalayas.**
- **The Shakya clan was part of the larger Kshatriya (warrior) caste.**
- ***Hence statement I is correct.***
- **Gautama Buddha passed away in Kusinara (also known as Kushinagar), which is located in present-day Uttar Pradesh, India.**
- **It is believed that he passed away around BCE.**
- ***Hence statement II is correct.***

★ Additional Information

- **Gautama Buddha:**
 - He was born Siddhartha Gautama circa 563 BCE.
 - He was born into a royal family in Lumbini which is situated near the Indo-Nepal border.
 - His family belonged to the Sakya clan which ruled from Kapilvastu, Lumbini.
 - He was the founder of Buddhism and is revered by Buddhists as a fully enlightened being who taught a path to Nirvana, freedom from ignorance, craving, rebirth, and suffering.
- **At the age of 29, Gautama left home and rejected his life of riches, and embraced a lifestyle of asceticism or extreme self-discipline.**
- **After 49 consecutive days of meditation, Gautam attained Bodhi (enlightenment) under a pipal tree at Bodhgaya, Bihar.**
- **Buddha gave his first sermon in the village of Sarnath, near Varanasi in Uttar Pradesh.**
- **This event is known as Dharma Chakra Pravartana (turning of the wheel of law).**
- **He died at the age of 80 in 483 BCE at Kushinagar, Uttar Pradesh.**
- **The event is known as Mahaparinibban or Mahaparinirvana.**
- **He is believed to be the eighth of the ten incarnations of Lord Vishnu (Dasavtar).**

88. Answer: b

Explanation:

The correct answer is Granite.

★ Key Points

- The Himalayan Mountains:
 - Himalayan mountains are stretched over the northern borders of India.
 - These mountain ranges run in a west-east direction from the Indus to the Brahmaputra.
 - The Himalaya consists of 3 parallel ranges in its longitudinal extent.
 - The northern-most range is known as the Great or Inner Himalayas or the Himadri.
 - It is the most continuous range consisting of the loftiest peaks with an average height of 6,000 metres.
 - The folds of the Great Himalayas are asymmetrical in nature.
 - The core of this part of the Himalayas is composed of granite.
 - The range lying to the south of the Himadri forms the most rugged mountain system and is known as Himachal or lesser Himalaya.
 - Pir Panjal range forms the longest and the most important range.
 - The outermost range of the Himalayas is called the Shiwaliks. These ranges are composed of unconsolidated sediments.
 - The longitudinal valley lying between the lesser Himalaya and the Shiwaliks are known as Duns.
 - Dehra Dun, Kotli Dun and Patli Dun are some of the wellknown Duns.
- The part of the Himalayas lying between Indus and Satluj has been traditionally known as Punjab Himalaya but it is also known regionally as Kashmir and Himachal Himalaya from west to east respectively.
- The part of the Himalayas lying between the Satluj and Kali rivers is known as Kumaon Himalayas.
- The Kali and Teesta rivers divide the Nepal Himalayas and the part lying between Teesta and Dihang rivers is known as Assam Himalayas.

89. Answer: a

Explanation:

The correct answer is Ministry of Civil Aviation.

★ Key Points

- The Union Minister of Civil Aviation has launched Krishi UDAN 2.0.
- Krishi UDAN 2.0
 - The scheme proposes to facilitate and incentivize the movement of Agri-produce by air transportation.
 - It lays out the vision of improving value realization through better integration and optimization of Agri-harvesting and air transportation.
 - It works by contributing to Agri-value chain sustainability and resilience under different and dynamic conditions.
 - It will be implemented at 53 airports across the country mainly focusing on Northeast and tribal regions and is likely to benefit farmers, freight forwarders, and airlines.

★ Additional Information

- Key highlights of the scheme
 - Facilitating and incentivizing movement of Agri-produce by air transportation: Full waiver of Landing, Parking, TNLC, and RNFC charges for Indian freighters and P2C at selected Airports. Primarily, focusing on NER, Hilly, and tribal regions.
 - Strengthening cargo-related infrastructure at airports and off airports: Facilitating the development of a hub and spoke model and a freight grid.
 - Concessions sought from other bodies: Seek support and encourage States to reduce Sales Tax to 1% on aviation fuels for freighters / P2C aircraft as extended in UDAN flights.
 - Resources-Pooling through establishing Convergence mechanism: Collaboration with other government departments and regulatory bodies.
 - Technological convergence: Development of E-KUSHAL (Krishi UDAN for Sustainable Holistic Agri-Logistics).

90. Answer: c

Explanation:

The correct answer is Shaktikanta Das.

★ Key Points

- Shaktikanta Das was **reappointed as the Governor of the Reserve Bank of India (RBI) in October 2021.**
- He took over as the **25th Governor of the Reserve Bank of India** after the resignation of Urjit Patel.
- The **Appointments Committee of the Cabinet cleared Shaktikanta Das's appointment for a period of three years.**
- **He is currently a Member of the Finance Commission.**

★ Additional Information

- The Reserve Bank of India Governor is appointed by the Prime Minister's Office (PMO) on the recommendation of the Union Finance Minister.
- Section 8(1)(a) of the Reserve Bank of India Act, 1934, provides that there shall be one Governor and not more than four Deputy Governors to be appointed by the central government on the central board of RBI.
- Some facts about RBI Governors:
 - Manmohan Singh is the only RBI Governor, who also served the country as the Indian Prime Minister
 - The first Indian Governor of RBI was Mr C.D. Deshmukh.
 - Ms KJ Udeshi was the first woman Deputy Governor of the Reserve Bank of India.
 - Her tenure started on **June 10, 2003, and lasted for over 2 years, till October 12, 2005.**
 - The person who served as the RBI Governor for the most extended time period was Benegal Rama Rao.
 - He worked for 7 years from 1st July 1949 to 14th January 1957.
 - Amitabh Ghosh served RBI as Governor for the shortest time, **only for 20 days starting from January 15, 1985, to February 4, 1985.**

91. Answer: a

Explanation:

The correct answer is Option 1.

★ Key Points

- The 67th National Film Awards have announced at a press meet on 22 March 2021 in order to honor the best Indian films released between 1 January and 31 December 2019.
- The awards were given by Vice President Shri M. Venkaiah Naidu.
- **Composer D Imman** has nabbed the award for **Best Music Direction** at the **67th National Film Awards**. The composer has been awarded the National Award for his songs in the hit **2019 Tamil film Viswasam**.
- **Imman**, who had previously won the **Tamil Nadu State Film Award** for Best Music Director, has grabbed his first **National Award** with **Viswasam**, which is his **104th** film.

★ Additional Information

- **Pritam Chakraborty**, known professionally as **Pritam**, is a well-known **Indian music composer, instrumentalist, guitarist, and singer**.
 - He has composed music for a wide range of Bollywood films, and is known for his ability to blend diverse musical styles, including Indian classical, folk, and contemporary music, as well as Western pop and rock music.
 - Some of his most popular songs include "**Tum Hi Ho Bandhu**" from the movie Cocktail, "Channa Mereya" from Ae Dil Hai Mushkil, and "Ae Ajabhi" from Dil Se, among many others. Pritam has also won several awards for his work in the Indian music industry.
- **AR Rahman** is a renowned Indian composer, singer, and music producer.
 - He was born on **January 6, 1967, in Chennai, India**. Rahman's birth name is A. S. Dileep Kumar, but he later converted to Islam and changed his name to Allah Rakha Rahman.
- **Ilaiyaraaja** is a renowned Indian music composer who has composed music for over 1300 films in Tamil, Telugu, Hindi, Kannada, Malayalam, and other

languages. He was born as Gnanathesikan on **June 2, 1943**, in **Pannaipuram, Tamil Nadu, India**.

92. **Answer: a**

Explanation:

The correct answer is **Option 1**.

★ Key Points

- The Bhagwati Committee (1973) presented a report on "Unemployment" (option 1).
- The committee, officially known as the Task Force on Employment and Income Distribution, was appointed by the Indian government to study the issues of unemployment and recommend measures to address the problem.
- The committee, chaired by Jagdish Bhagwati, an eminent economist, submitted its report in 1973, focusing on strategies and policies to tackle unemployment in India.

★ Additional Information

- At the time, India had a **fixed exchange rate regime** where the value of the Indian rupee was fixed against the US dollar.
 - The **Bhagwati Committee** was set up to consider whether a more flexible exchange rate regime would be beneficial for India's economic growth and development.
 - The Committee submitted its report in **1974**, recommending that India should adopt a flexible exchange rate regime.
 - The Committee argued that a flexible exchange rate regime would provide greater stability to the Indian economy, improve its international competitiveness, and reduce the need for external borrowing.
-

93. **Answer: d**

Explanation:

The correct answer is Option 4.

★ Key Points

- **Richard Wellesley was the Governor-General of India from 1798 to 1805.** He was the elder brother of Arthur Wellesley, who later became the Duke of Wellington and served as the Prime Minister of the United Kingdom.
- During his tenure as **Governor-General, Richard Wellesley** implemented a number of important policies, including the expansion of British territories in India, the introduction of the Doctrine of Lapse, and the creation of a system of subsidiary alliances with Indian princely states.
- He also played a key role in establishing the **College of Fort William in Calcutta**, which provided training for British civil servants in India.

★ Additional Information

- **In 1806–1810**, the Governor General of British India was Charles Cornwallis, 2nd Marquess Cornwallis.
 - However, it should be noted that **Cornwallis** resigned from the position in **July 1805**, and was succeeded by **Sir George Barlow**, who served as Acting **Governor-General until 1807**, when **Lord Minto** took over as the new Governor-General. Minto served until **1813**.
- **The Governor-General of India from 1811 to 1816** was the **Marquess of Hastings**, also known as Francis Rawdon-Hastings.
 - He served as the Governor-General of India from **1813 to 1823**, and during his tenure, he expanded and consolidated the British territorial possessions in India through a series of military campaigns and diplomatic alliances.
 - He also implemented several reforms, including the abolition of the **East India Company's trade monopoly** and the establishment of a **uniform system of justice**.
- The Governor-General of India during the years **1817–1822** was **Lord Hastings (Warren Hastings)**.
 - He served as the **Governor-General of India from 1813 to 1823**, and during his tenure, he introduced several administrative and legal reforms, including

- the establishment of the Indian Civil Service, the establishment of a Board of Revenue in each province, and the codification of Hindu law.
- He also played a key role in expanding and consolidating **British rule in India**, particularly in the areas of central and northern India.

94. Answer: d

Explanation:

The correct answer is Option 4.

★ Key Points

- **The idea of DPSP** was borrowed from the **Constitution of Ireland**. The Constitution of Ireland, which was adopted in **1937**, also contained a similar set of principles, which were referred to as the "**Directive Principles of Social Policy**."
- The framers of the Indian Constitution, especially **Dr. B.R. Ambedkar**, were inspired by the Irish Constitution's social and economic principles and believed that they would be relevant to the Indian context as well.
- Therefore, when drafting the Indian Constitution, the framers incorporated the **DPSPs in Part IV of the Constitution, which consists of articles 36–51**. The DPSPs **aim** to establish a welfare state, promote social and economic democracy, and ensure social justice and equality for all citizens of India.

★ Additional Information

- The Indian Constitution drew inspiration from a variety of sources, including the constitutions of other countries and various historical documents. Here are some of the key sources:
 - **Government of India Act, 1935**: This was the primary constitutional document that governed India before independence. The Indian Constitution borrowed many features from this act, including the federal structure, the bicameral legislature, and the office of the governor.
 - **United States Constitution**: The Indian Constitution borrows the concept of a federal structure from the US Constitution.

- **British Constitution:** The Indian Constitution has also drawn inspiration from the British Constitution, particularly in the areas of parliamentary government, rule of law, and the independence of the judiciary.
- **French Constitution:** The French Constitution's ideals of liberty, equality, and fraternity are reflected in the Preamble of the Indian Constitution.
- **Irish Constitution:** The Indian Constitution borrowed the concept of Directive Principles of State Policy from the Irish Constitution.
- **Canadian Constitution:** The Indian Constitution has also drawn inspiration from the Canadian Constitution, particularly in the areas of the federal structure, the appointment of governors, and the powers of the Supreme Court.
- **Weimar Constitution of Germany:** The Indian Constitution borrowed the concept of the suspension of fundamental rights during a state of emergency from the Weimar Constitution.

95. Answer: a

Explanation:

The correct answer is Option 1.

★ Key Points

- **Aqua regia** is a highly corrosive mixture made by combining concentrated hydrochloric acid and concentrated nitric acid in a **3:1 ratio**.
- The name "**aqua regia**" means "**royal water**" in Latin, because it was historically used by alchemists to dissolve precious metals like gold and platinum, which were believed to be indestructible.
- The mixture is highly reactive and dangerous, and should be handled with extreme caution.

★ Additional Information

- **Hydrochloric acid (HCl)** is a **strong, colorless, and highly corrosive acid** that is commonly used in various industrial processes, laboratory experiments, and as

a component of gastric acid in the human digestive system. It is composed of hydrogen and chlorine atoms and has a **pH value of less than 1**.

- **Hydrochloric acid** is produced by dissolving hydrogen chloride gas in water, and its concentration can vary depending on the application.
- In industrial processes, it is used for the production of various chemicals, including chlorides, fertilizers, and dyes. In the laboratory, it is used as a reagent in chemical analysis and synthesis.
- **Nitric acid** is a strong mineral acid with the chemical formula **HNO₃**. It is a colorless liquid that is highly corrosive and reactive. Nitric acid is commonly used in the production of fertilizers, explosives, and dyes, and also in various industrial processes such as metal cleaning and etching.
 - In its pure form, **nitric acid** is extremely dangerous and can cause severe burns upon contact with skin or eyes. It is also a potent oxidizing agent and can react violently with other chemicals, including organic compounds and metals.
 - **Nitric acid** is commonly available in various concentrations, typically ranging from 60% to 70% for industrial use and up to 70% to 90% for laboratory use. Diluted solutions of nitric acid are often used in the laboratory for tasks such as cleaning glassware and removing rust from metals.

96. Answer: b

Explanation:

The correct answer is **1206 to 1210**

★ Key Points

Qutbuddin Aibak (1206–1210) :

- Qutbuddin Aibak was a slave of Muhammad Ghori, who made him the Governor of his Indian possessions.
- He set up his military headquarters at Indraprastha, near Delhi.
- After the death of Ghori in 1206, Aibak declared his independence.

- Thus, he is known as the founder of the Slave Dynasty as well as the Delhi Sultanate.
- Aibak patronized the great scholar Hasan Nizami . Hence,
- He started the construction of Qutub Minar, Delhi and constructed A dhai Din Ka Jhonpra at Ajmer.

★ Additional Information

Delhi Sultanate (1206 AD–1526 AD)

- The First Muslim invasion was done by Mohammad Bin Qasim (712 AD).
- The First Turkish Invasion was done by Mahmud Ghaznavi (998 AD–1030 AD):
 - In 1025, he attacked and raided the most celebrated Hindu temple of Somnath.
- Dynasties of Delhi Sultanate:
 - The Slave dynasty (1206–1290)
 - The Khalji dynasty (1290–1320)
 - The Tughlaq dynasty (1320–1414)
 - The Sayyid dynasty (1414–1451)
 - Lodi dynasty (1451–1526)

97. Answer: d

Explanation:

Correct Answer **Uttar Pradesh**

★ Key Points

- **Madan Mohan temple** is located in the city of **Vrindavan** in the **state of Uttar Pradesh, India**.
- This **temple** is also dedicated to **Lord Krishna** and is considered to be one of the **oldest temples in Vrindavan**.
- The **Madan Mohan temple** in **Vrindavan** was established by the **16th-century saint and philosopher, Sri Sanatana Goswami**.
- The temple is located near the banks of the **Yamuna River**.

- The temple's architecture is in the traditional **North Indian style** and is made of **red sandstone**.
- The main deity of the temple is **Lord Madan Mohan**, a form of **Lord Krishna**, and is believed to have been originally worshipped by **Lord Krishna's consort Radha**.
- The **Madan Mohan temple** in **Vrindavan** is an important part of the **Braj Yatra**, a pilgrimage route that takes devotees to various **holy sites** associated with **Lord Krishna**.
- It is also an important center for the **celebration of various festivals** such as
 - **Janmashtami**, the birth anniversary of **Lord Krishna**,
 - **Radhashtami**, the **birth anniversary** of **Lord Krishna's consort Radha**.

98. Answer: c

Explanation:

Correct Answer **bacteria**

Typhoid fever can spread throughout the body and harm numerous organs.

★ **Key Points:**

Waterborne diseases:

- Waterborne diseases are illnesses caused by microscopic organisms, like viruses and bacteria, that are ingested through contaminated water or by coming in contact with feces.
- If every person on the planet was able to practice safe sanitation and hygiene and have access to clean water, these diseases would not exist.
- It can lead to major problems and even be fatal without early treatment.
- The Salmonella Typhi bacteria are the primary cause of the potentially fatal disease typhoid fever.
- Infections caused by bacteria can harm your skin, lungs, brain, blood, and other body organs.
- They enter your body when single-celled organisms grow or release toxins.

Thus, Typhoid fever, water-borne disease is caused by Bacteria.

★ **Additional Information:**

- Malaria is caused by Protozoan.
 - Viruses can cause diseases such as the common cold, flu and warts, AIDS, Ebola, and COVID-19.
-

99. **Answer: a**

Explanation:

The correct answer is 5.5.

★ **Key Points:**

- Tooth decay starts when the pH of the mouth is lower than 5.5.
- Tooth enamel, made up of calcium phosphate is the hardest substance in the body.
- It does not dissolve in water but is corroded when the pH in the mouth is below 5.5.
- Bacteria present in the mouth produce acids by the degradation of sugar and food particles remaining in the mouth after eating.
- The best way to prevent this is to clean the mouth after eating food.
- At the pH of 5.5, the teeth risk of cavities and tooth decay begins in the mouth.

★ **Additional Information:**

- The role of toothpaste to prevent tooth decay is as follows-
 - A healthy mouth is in a neutral pH range. Teeth can actually become stronger and re-mineralize when the pH of the mouth is 7.5 or above.
 - Bacteria present in the mouth produce acids by the degradation of sugar and food particles remaining in the mouth after eating.
 - Using toothpaste, which is generally basic, for cleaning the teeth can neutralize the excess acid and prevent tooth decay.
 - Fluoride is a mineral that can prevent tooth decay from progressing. It can even reverse or stop, early tooth decay. Hence most of the toothpastes have fluoride ions.

- Also, tooth-pastes have salts in them which decreases the acidity of mouth.

100. Answer: c

Explanation:

Correct Answer **Jaisalmer**

★ Key Points

- **Maru Mahotsav** is a cultural festival that takes place in the Rajasthan District of **Jaisalmer**.
- The **festival is celebrated** to promote the cultural heritage of Gujarat and to showcase the **diverse traditions, art, and crafts of the region**.
- **Maru Mahotsav** is typically held during the winter season, usually in **December or January**, and is organized by the **Gujarat Tourism Department**.
- The **renowned Jaisalmer Desert Festival**, also known as **Maru Mahotsav of the Golden City** started from **13 to 16 February 2023** at **Pokaran village** in **Jaisalmer, Rajasthan**.
- It is a **four-day-long** annual event started with a colorful grand procession followed by **Miss Pokaran and Mister Pokran competitions**.
- **Regional folk dances** such as **Kalbelia, Kachhi Ghodi, Gair** will be perform