

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

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

2 : 6 :: 4 : 60 :: 7 : ?

- a. 600
- b. 105
- c. 336
- d. 201

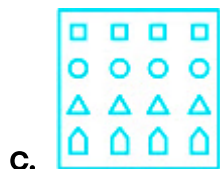
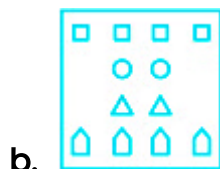
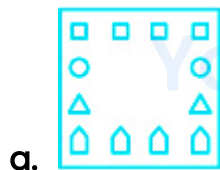
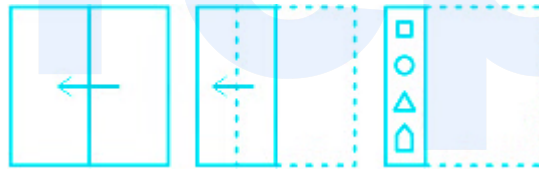
2. Six girls, Pooja, Qimat, Reeti, Shweta, Tejaswini and Vineeta, are sitting around a circular table. All of them are facing towards the centre of the table (but not necessarily in the same order). Tejaswini is the immediate neighbour of Vineeta and Reeti. Pooja is to the immediate left of Vineeta. Qimat is fourth to the right of Pooja. Shweta is to the immediate left of Pooja. Who is sitting to the immediate left of Shweta?. (+1, -0.25)

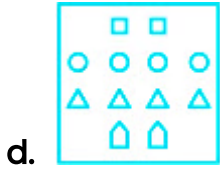
- a. Tejaswini
- b. Pooja
- c. Qimat
- d. Reeti

3. P, Q, R, S and T are five friends who got different marks in an examination. (+1, -0.25)
 Only two people scored more than P but less than S. Q scored the highest marks. T scored more marks than R. Who got the fourth highest marks?

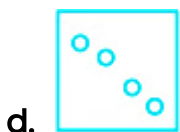
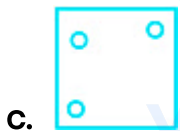
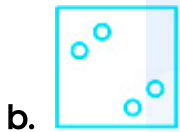
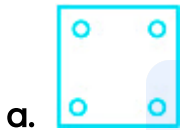
- a. P
- b. R
- c. Q
- d. S

4. 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)





5. 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)



6. Six persons are sitting in two straight rows, facing north. Their names are Farhan, Utkarsh, Yugal, Krishna, Chaman and Manish. Farhan and Manish are sitting at diagonally opposite ends. Utkarsh is in the top row and to the immediate right of Farhan. Krishna is second to the left of Manish while Yugal and Krishna are not in the same row. Who is sitting at the diagonally opposite end to Yugal? (+1, -0.25)

- a. Manish
- b. Krishna
- c. Utkarsh
- d. Chaman

7. After interchanging which two signs will the value of the given expression be '356'? (+1, -0.25)

$$133 + 49 - 16 \div 2 \times 34$$

- a. + and -
- b. - and \div
- c. \times and +
- d. \div and \times

8. 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)

PAN : SCP :: HOP : ?

- a. KQR
- b. KRQ
- c. KSQ
- d. KQS

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

ROM, URJ, XUG, AXD, ?

- a. DAA
- b. DAD
- c. DAB
- d. DBA

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

TREE : RTEE :: KEEP : EKPE :: SOLO : ?

- a. OOSL
- b. OLSO
- c. OSOL
- d. LOSO

11. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (+1, -0.25)

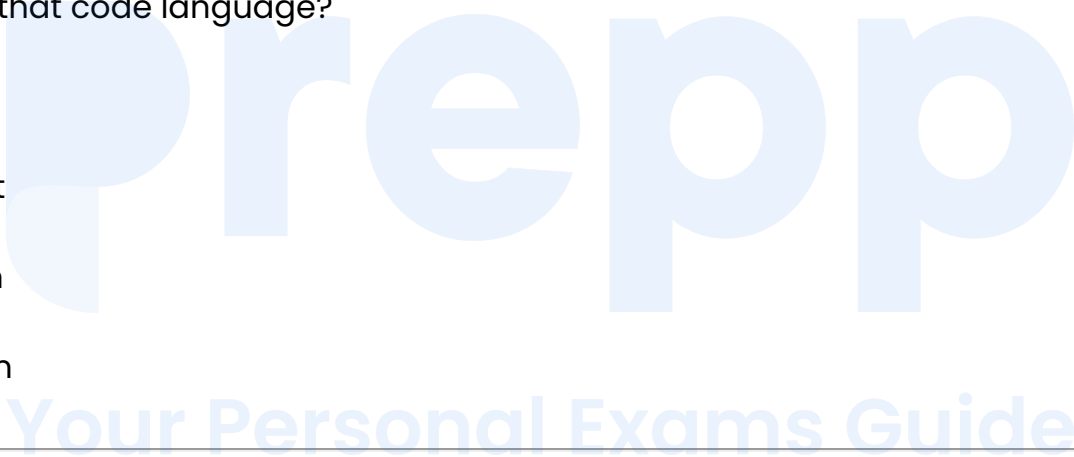
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(3, 6, 18) (5, 7, 35)

- a. (8, 13, 94)
- b. (7, 12, 74)
- c. (8, 12, 86)
- d. (6, 14, 84)

12. In a certain code language, 'Here we go west' is written as '8 6 4 9', 'West and east best' is written as '4 @ # pr' and 'East direction sun' is written as '# jt qm'. Which one of the following is the possible code for 'direction east' in that code language? (+1, -0.25)

- a. @ jt
- b. qm it
- c. 4 qm
- d. # qm



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:

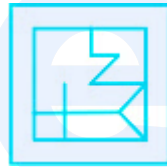
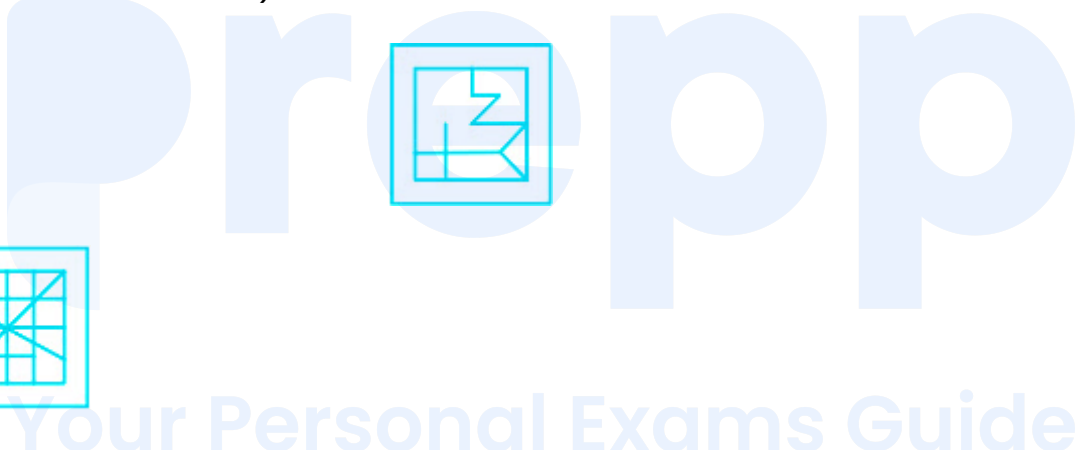
Some pets are birds.





All birds are mats.

Conclusions:

- I. All mats are birds.
- II. Some mats are pets.
- a. Only conclusion II follows.
- b. Neither conclusion I nor II follows.
- c. Both conclusions I and II follow.
- d. Only conclusion I follows.

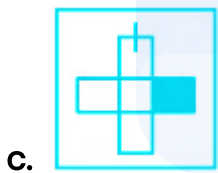
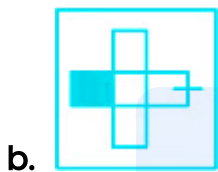
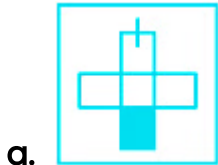
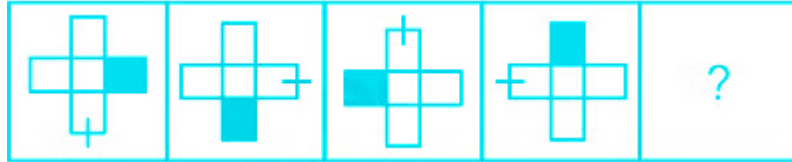
14. Select the option in which the given figure is embedded as its part (rotation is NOT allowed). (+1, -0.25)



- a. 
- b. 
- c. 
- d. 

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

(+1, -0.25)



16. Select the figure from the options that can replace the question mark (?) and complete the pattern. (Rotation is not allowed)

(+1, -0.25)





17. In a certain code language, 'IFSP' is written as 'JHTR' and 'MPWF' is written as 'NRXH'. How will 'TOAD' be written in that language? (+1, -0.25)

- a. UQCE
- b. UQBF
- c. UQCF
- d. UPBF

18. 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:

No plate is a spoon.

Some plates are forks.

All forks are knives.

Conclusions:

I. Some plates are knives is a possibility.

II. No spoon is a fork.

- a. Only conclusion I follows
- b. Neither conclusion I nor II follows
- c. Both conclusions I and II follow
- d. Only conclusion II follows

19. D 2 is related to H 6 in a certain way. In the same way, L 11 is related to P 15. (+1, -0.25)
To which of the following is T 18 related following the same logic?

- a. Z 22
- b. X 22
- c. Y 22
- d. W 22

20. Which two signs need to be interchanged to make the following equation (+1, -0.25)
correct?

$$9 + 3 - 4 \div 5 \times 2 = 9$$

- a. - and ×

- b. + and \times
 - c. + and \div
 - d. - and +
-

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

728, 717, 695, 662, 618, ?

- a. 564
 - b. 561
 - c. 563
 - d. 562
-

22. In a certain code language, 'ANAEMIA' is written as 'AOAENIA', 'AQUEOUS' is written as 'ARUEOUT', and 'LIVELY' is written as 'MIWEMZ'. How will 'EUGENIA' be written in that language? (+1, -0.25)

- a. EUHEOJA
 - b. FVGFNJB
 - c. EUHEOIA
 - d. FUGFNJB
-

23. In a certain code language, 'POR' is coded as '52' and 'AND' is coded as '22'. How will 'VXB' be coded in that language? (+1, -0.25)

- a. 52
- b. 48
- c. 49
- d. 51

24. 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 the fourth number is related to the third number. (+1, -0.25)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

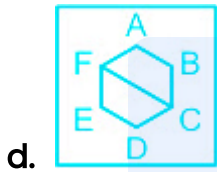
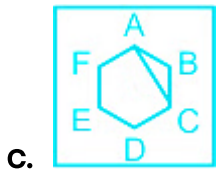
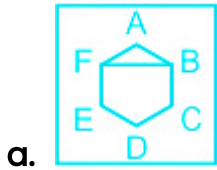
$$12 : 20 :: 8 : 12 :: 34 : ?$$

- a. 52
- b. 64
- c. 48
- d. 56

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





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Numerical Aptitude

26. Vishal sells a bag at a profit of 40%. If Vishal's profit is Rs. 880, then what is the cost price of the bag? **(+1, -0.25)**
- a. Rs. 2,000
 - b. Rs. 2,450
 - c. Rs. 1,900
 - d. Rs. 2,200
-
27. A 900 metre long train crosses a 1200 metres long platform completely in 70 seconds. What is the speed of the train? **(+1, -0.25)**
- a. 117 km/h
 - b. 108 km/h
 - c. 99 km/h
 - d. 90 km/h
-
28. Rs. 12,000 is lent for one year at the rate of 15% per annum, the interest being compounded annually. If the compounding of the interest is done half-yearly, then how much more interest will be obtained at the end of the one-year period on the same initial sum? **(+1, -0.25)**
- a. Rs. 72.5
 - b. Rs. 82.8
 - c. Rs. 60.5

d. Rs. 67.5

29. A 480 m long train takes 16 seconds to pass a pole. How long will it take to pass a platform that is 900 m long? (+1, -0.25)

a. 47 seconds

b. 45 seconds

c. 46 seconds

d. 48 seconds

30. If Rs. 1,000 is divided into three parts in the ratio 2 : 3 : 5, find the value of the smallest part. (+1, -0.25)

a. Rs. 100

b. Rs. 300

c. Rs. 200

d. Rs. 400

31. Ishita can read a newspaper in 'n' minutes. What part of the newspaper can she read in 7 minutes? ($n > 7$) (+1, -0.25)

a. $\frac{n}{7}$

b. $7n^2$

c. $7n$

d. $\frac{7}{n}$

32. There are two numbers such that the first number is four times of the second number. If their average is 65, then what is the second number? (+1, -0.25)

- a. 26
 - b. 14
 - c. 24
 - d. 28
-

33. Find the value of p, when $p = (5 \div 6)$ of $54 - 40 \div 10 - 41 - 22$ (+1, -0.25)

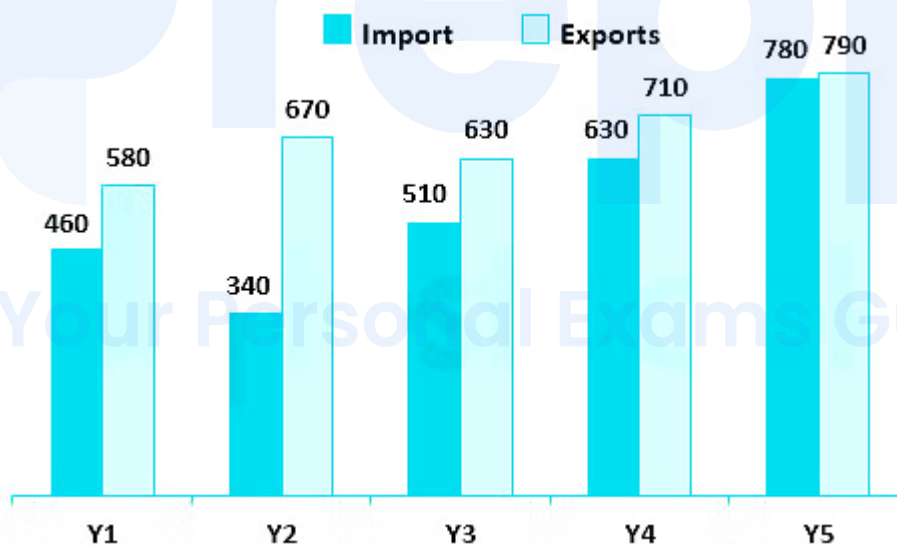
- a. -11
 - b. -22
 - c. -18
 - d. -23
-

34. The base of a triangle is 16 cm and its area is 144 cm^2 . Find its corresponding height, with respect to the given base. (+1, -0.25)

- a. 18 cm
 - b. 9 cm
 - c. 24 cm
 - d. 12 cm
-

35. A train moves at a speed of 35 km/h for the first 2 hours and at a speed of 50 km/h for the next 4 hours. Find the average speed of the train during the entire journey. (+1, -0.25)
- a. 47 km/h
 - b. 50 km/h
 - c. 45 km/h
 - d. 35 km/h

36. The bar chart given below shows the exports (in Rs. 000) and imports (in rs. 000) of a country for 5 consecutive years. (+1, -0.25)



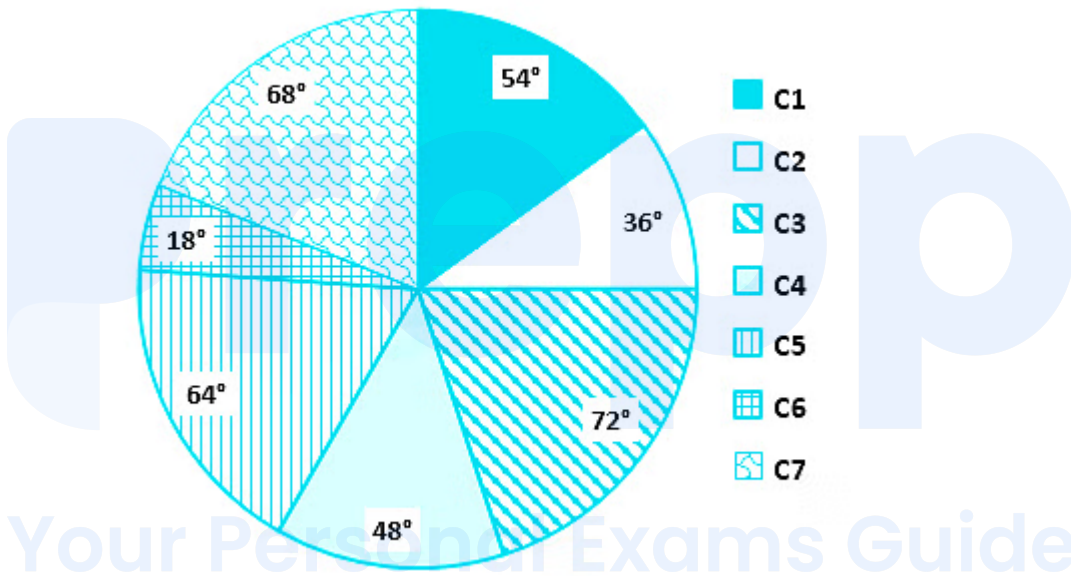
What is the positive difference in the total export figures of all the five years taken together and the total import figures of all the five years taken together?

- a. Rs. 6,20,000
- b. Rs. 5,40,000

c. Rs. 5,80,000

d. Rs. 6,60,000

37. The following pie chart shows the sectors representing the shares of the number of electric buses manufactured in each of 7 different colours in a given year in terms of the central angles (in degrees) with respect to the total number of buses manufactured during that year of all the 7 colours taken together. (+1, -0.25)



What is the difference in the percentage shares of buses of C4 and C6?
 [Give your answer correct to 2 decimal places.]

- a. 11.11%
- b. 8.33%
- c. 9.09%
- d. 12.5%

38. The selling price of two articles are equal. If the first article is sold at a profit of 20% and the second article is sold at a loss of 20%, what will be the overall loss percentage? (+1, -0.25)
- a. 4%
 - b. 3.5%
 - c. 2.5%
 - d. 2%
-

39. The table below gives the ranks secured by five different students in three different subjects in a qualifying examination: (+1, -0.25)

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Students	Subject		
	Maths	Physics	Chemistry
A	12	22	14
B	15	21	15
C	3	15	22
D	14	24	1
E	18	13	2

Find the positive difference between the ranks secured by A in Physics and in Maths.

- a. 25
- b. 10
- c. 15
- d. 20

40. Rachit invests Rs. 12,000 for a 2-year period at a certain rate of simple interest per annum. Prasad invests Rs. 12,000 for a 2-year period at the same rate of interest per annum as Rachit, but in Prasad's case the (+1, -0.25)

interest is compounded annually. Find the rate of interest per annum if Prasad receives Rs. 172.80 more as interest than Rachit at the end of the 2-year period.

- a. 10%
- b. 8%
- c. 12%
- d. 5%

41. What is the value of $\frac{5}{12} \times \frac{7}{12} \div \left(\frac{1}{75} + \frac{5}{12} \text{ of } \frac{36}{25}\right) + \frac{4}{5} \times \frac{75}{16}$? (+1, -0.25)

- a. $\frac{8305}{1104}$
- b. $\frac{4675}{1104}$
- c. $\frac{2565}{2208}$
- d. $\frac{9155}{2208}$



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42. If the population of a town is 12,000 and the population increases at the rate of 10% per annum, then find the population after 3 years. (+1, -0.25)

- a. 15,972
- b. 12,200
- c. 11,200
- d. 10,200

43. If $16 : X :: X : 196$, find the positive value of x? (+1, -0.25)

- a. 60
 - b. 62
 - c. 56
 - d. 64
-

44. 80 liters of a mixture of alcohol and water contains 60% alcohol. If 'X' liters of water is added to this mixture, then the percentage of alcohol in the new mixture becomes 40%. What is the value of 'X'? (+1, -0.25)

- a. 20
 - b. 80
 - c. 40
 - d. 60
-

45. The length, the breadth, and the height of a cuboid are 40 cm, 20 cm and 10 cm, respectively. What is the volume of this cuboid? (+1, -0.25)

- a. 16000 cm^3
 - b. 8000 cm^3
 - c. 2000 cm^3
 - d. 4000 cm^3
-

46. Akshay has 30 articles, each having the same cost price. He marked the price of each article at 30% above its cost price. He sold 15 of the articles (+1, -0.25)

at a discount of 20% each, and the remaining 15 articles at a discount of 10% each, thereby gaining a total profit of Rs. 630. What was the cost price of each article?

- a. Rs. 240
- b. Rs. 180
- c. Rs. 280
- d. Rs. 200

47. Bobby and Billy can complete a job in 28 days and 20 days, respectively. (+1, -0.25)
They work together for 5 days, after which Billy leaves the job. In how many days did Bobby alone complete the rest of the job?

- a. 15 days
- b. 20 days
- c. 12 days
- d. 16 days

48. What is the value of $[7 \div 14 \times 8 + (5 \div 15 \times 6 - 4 \times 3)]$? (+1, -0.25)

- a. -4
- b. -2
- c. -6
- d. -5

49. The volume of a cone is 27720 cm^3 . If the height of the cone is 20 cm, then what will be the area of the base? (+1, -0.25)

- a. 4158 cm^2
- b. 4272 cm^2
- c. 4626 cm^2
- d. 4836 cm^2

50. In an office of 900 employees, on a particular day, except for 10% of the female employees, all employees were present. On the next day, except for 8% of the male employees, all employees were present. The number of employees present on each of these two days was the same. Find the total number of male employees on the payrolls of this office. (+1, -0.25)

- a. 550
- b. 450
- c. 800
- d. 500

Your Personal Exams Guide

General English

51. Select the most appropriate meaning of the given idiom. (+1, -0.25)

Have a whale of a time

- a. Be extremely busy with work
- b. A good thing that seems bad at first
- c. Have an exceptionally fun or exciting experience
- d. Immediate involvement of everyone present

52. Parts of the following sentence have been given as options. 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)

Public agencies and nonprofit conservation groups is already working to promote conservation.

- a. groups is already working
- b. Public agencies and nonprofit conservation
- c. to promote conservation
- d. No error

53. Parts of the following sentence have been given as options. 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)

The thing about anger is that it can either been a helpful emotion or a discouraging one.

- a. a helpful emotion or a discouraging one
 - b. The thing about anger
 - c. No error
 - d. is that it can either been
-

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

A person exhibiting excessive worry about one's health

- a. Intellectual
 - b. Hypochondriac
 - c. Megalomaniac
 - d. Expert
-

55. 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)

I work hardly too earn bread and butter for my family.

- a. work hardest too
 - b. work hard to
 - c. No improvement required
 - d. works hardly to
-

56. 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)

I was at a party / with some off my / friends in Mumbai.

- a. friends in Mumbai
- b. with some off my
- c. No error
- d. I was at a party

57. Select the most appropriate meaning of the given idiom. (+1, -0.25)

Crocodile tears

- a. Hopeless situation
- b. Totally different
- c. False tears
- d. Of less worth

58. Select the option that corrects the misspelt words in the given sentence. (+1, -0.25)

A baloon may liave the earth with a charg.

- a. A balloon may leave the earth with a charge.
- b. A ballon may leave the earth with a chargge.
- c. A balloon may live the earth with a charrge.

d. A ballun may leave the earth with a charge.

59. Select the most appropriate ANTONYM of the given word.

(+1, -0.25)

Moil

- a. Cultivate
 - b. Grow
 - c. Discourage
 - d. Work
-

60. Select the correctly spelt word.

(+1, -0.25)

- a. Innability
 - b. Inabilty
 - c. Inability
 - d. Inablity
-

61. Select the most appropriate ANTONYM of the given word.

(+1, -0.25)

Obedient

- a. Compliant
- b. Submissive
- c. Cheery
- d. Resistant

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

Intricate

- a. Basic
 - b. Complicated
 - c. Painted
 - d. Developed
-

63. 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)

A better plan is to going and has a lavish dinner at a fine restaurant.

- a. is to go and have
 - b. No substitution required
 - c. is to gone and have
 - d. was to going and have
-

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

One who feeds on human flesh

- a. Cannibal
- b. Hedonist

- c. Stoic
 - d. Samaritan
-

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

All branded shoes are priced extravagantly.

- a. Modestly
 - b. Economically
 - c. Expensively
 - d. Meagerly
-

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

It's _____ too late to start your own business.

- a. never
 - b. no
 - c. neither
 - d. nor
-

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

It was impossible _____ guess what he was doing.

- a. to
- b. at

c. on

d. of

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

Evident

a. Obvious

b. Indistinct

c. Stubborn

d. Irritable

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

A person who believes in or tries to bring about a state of lawlessness

a. Ephemeral

b. Deluge

c. Gazette

d. Anarchist

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

The sudden death of our uncle was _____ for all of us.

a. tragic

- b. fragile
- c. gentle
- d. dissuasive

71. 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)

Nitrogen is essential to life (1)_____ Earth. It is a component of all proteins, and it can be (2)_____ in all living systems. Nitrogen compounds are (3)_____ in organic materials, foods, fertilizers, explosives, and poisons. Nitrogen is crucial to life, (4)_____ in excess it can also be (5)_____ to the environment.

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

- a. at
- b. into
- c. on
- d. in

72. 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)

Nitrogen is essential to life (1)_____ Earth. It is a component of all proteins, and it can be (2)_____ in all living systems. Nitrogen compounds are (3)_____ in organic materials, foods, fertilizers, explosives, and poisons. Nitrogen is crucial to life, (4)_____ in excess it can also be (5)_____ to the environment.

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

- a. founder
- b. find
- c. founded
- d. found

73. 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)

Nitrogen is essential to life (1) _____ Earth. It is a component of all proteins, and it can be (2) _____ in all living systems. Nitrogen compounds are (3) _____ in organic materials, foods, fertilizers, explosives, and poisons. Nitrogen is crucial to life, (4) _____ in excess it can also be (5) _____ to the environment.

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

- a. function
- b. instant
- c. immediate
- d. present

74. 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)

Nitrogen is essential to life (1) _____ Earth. It is a component of all proteins, and it can be (2) _____ in all living systems. Nitrogen compounds are (3) _____ in organic materials, foods, fertilizers, explosives, and poisons. Nitrogen is crucial to life, (4) _____ in excess it can also be (5) _____ to the environment.

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

- a. such
- b. because
- c. but
- d. if

75. 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)

Nitrogen is essential to life (1) _____ Earth. It is a component of all proteins, and it can be (2) _____ in all living systems. Nitrogen compounds are (3) _____ in organic materials, foods, fertilizers, explosives, and poisons. Nitrogen is crucial to life, (4) _____ in excess it can also be (5) _____ to the environment.

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

- a. harmful
- b. pliable
- c. optimistic
- d. rational

General Awareness

76. Tanjore Balasaraswati was known for which classical dance form? (+1, -0.25)

- a. Bihu
- b. Bharatanatyam
- c. Odissi
- d. Manipuri

77. Which of the following persons won the 'Best Female Debut' Award at the 2021 Paralympic Sports Awards 2021? (+1, -0.25)

- a. Deepa Malik
- b. Bhavinaben Patel
- c. Avani Lekhara
- d. Mirabai Chanu

78. Which of the following rivers forms the largest river system of Rajasthan? (+1, -0.25)

- a. Krishna
- b. Narmada
- c. Tapi
- d. Luni

79. In human beings, the small intestine is coiled and is about _____ metres long. (+1, -0.25)
- a. 2 to 2.5
 - b. 1 to 1.5
 - c. 7 to 7.5
 - d. 3 to 3.5
-

80. Who among the following was the first athlete to represent India in fencing at the Tokyo Olympics 2020? (+1, -0.25)
- a. Aditi Ashok
 - b. PT Usha
 - c. Bhavani Devi
 - d. PV Sindhu
-

81. A form of financial service which provides small loans and other financial services to poor and low-income households is called _____. (+1, -0.25)
- a. microfinance
 - b. commercial mortgage
 - c. invoice financing
 - d. personal finance
-

82. Which of the following are also called the amphibians of the plant kingdom? (+1, -0.25)

- a. Bryophytes
- b. Angiosperms
- c. Pteridophytes
- d. Thallophytes

83. Buddha attained enlightenment at _____. (+1, -0.25)

- a. Varanasi
- b. Bodh Gaya
- c. Kusinara
- d. Pataliputra

84. 'Unfinished: A Memoir' is the autobiography of _____. (+1, -0.25)

- a. Priyanka Chopra Jonas
- b. Deepika Padukone
- c. Kareena Kapoor
- d. Alia Bhatt

85. Which of the following festivals is celebrated when the annual harvest takes place in Assam? (+1, -0.25)

- a. Pongal
 - b. Magh Bihu
 - c. Makaravilakku
 - d. Lohri
-

86. Which of the following is considered to be the fifth state of matter? (+1, -0.25)

- a. Bose-Einstein condensate
 - b. Plasma
 - c. Solid
 - d. Gas
-

87. Which of the following peninsular rivers has the largest drainage basin? (+1, -0.25)

- a. Godavari
 - b. Mahanadi
 - c. Narmada
 - d. Krishna
-

88. A type of unemployment in rural areas when people are not able to find jobs during some months of the year is called _____ (+1, -0.25)

- a. frictional unemployment
- b. seasonal unemployment

- c. educated unemployment
 - d. disguised unemployment
-

89. Vasco da Gama, a Portuguese explorer came to India in _____. (+1, -0.25)

- a. 1496
 - b. 1498
 - c. 1495
 - d. 1497
-

90. Who among the following addressed the Indian National congress as its President in 1887? (+1, -0.25)

- a. Balgangadhar Tilak
 - b. Badruddin Tyabji
 - c. WC Bannerji
 - d. Dadabhai Naoroji
-

91. Which team lost to Dabang Delhi KC in the finals of the Pro Kabaddi League season 8? (+1, -0.25)

- a. Puneri Paltan
- b. Patna Pirates
- c. Gujarat Giants

d. UP Yoddha

92. Soilless agriculture is called _____ . (+1, -0.25)

- a. hydroponics
 - b. shifting agriculture
 - c. dry farming
 - d. pastoral farming
-

93. Which Article of the Indian Constitution enshrines the Right against Exploitation? (+1, -0.25)

- a. Article 23
 - b. Article 21
 - c. Article 25
 - d. Article 22
-

94. What does 'Chaitya' in Buddhist architecture refer to? (+1, -0.25)

- a. Monastery
 - b. Residence
 - c. Prayer hall
 - d. Buddha relic
-

95. As per Census 2011, what is the Total Fertility Rate (an approximate range) (+1, -0.25) in India?
- a. 3.1 - 3.9
 - b. 2.1 - 2.9
 - c. 5.1 - 5.9
 - d. 4.1 - 4.9
-

96. Who among the following is a famous Sitar player? (+1, -0.25)
- a. Ali Ahmad Hussain
 - b. Anoushka Shankar
 - c. Ustad Rehman Khan
 - d. Kishan Maharaj
-

97. As per the Constitution of India, the President of India shall hold office for a term of _____ from the date on which he enters upon his office. (+1, -0.25)
- a. four years
 - b. six years
 - c. three years
 - d. five years
-

98. Mohiniyattam is a classical dance form of which Indian state? (+1, -0.25)
-

- a. Andhra Pradesh
 - b. Kerala
 - c. Tamil Nadu
 - d. Assam
-

99. Which Chola ruler built the Brihadeshwara Temple at Tanjore? (+1, -0.25)

- a. Rajaraja I
 - b. Rajendra I
 - c. Vijayalaya
 - d. Rajendra III
-

100. Which state of India has set up District Investment Promotion Agencies (DIPA)? (+1, -0.25)

- a. Karnataka
- b. Haryana
- c. Odisha
- d. West Bengal

Answers

1. Answer: c

Explanation:

The logic followed here is:

$$(\text{1st number})^3 - \text{1st number} = \text{2nd number} .$$

Now, 2 : 6

$$\rightarrow (2)^3 - 2 = 8 - 2 = 6.$$

For, 4 : 60

$$\rightarrow (4)^3 - 4 = 64 - 4 = 60.$$

Similarly, for 7 : ?

$$\rightarrow (7)^3 - 7 = 343 - 7 = 336.$$

Hence, the correct answer is "336".

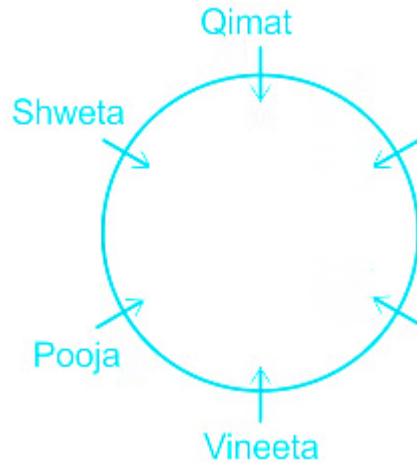
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2. Answer: c

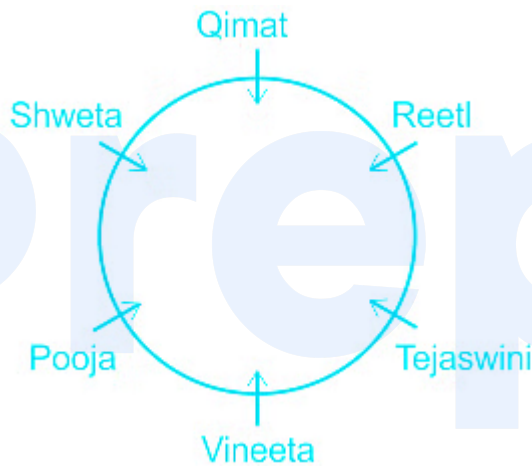
Explanation:

Given: Six girls, Pooja, Qimat, Reeti, Shweta, Tejaswini and Vineeta.

- 1) Pooja is to the immediate left of Vineeta.
- 2) Shweta is to the immediate left of Pooja.
- 3) Qimat is fourth to the right of Pooja.



4) Tejaswini is the immediate neighbour of Vineeta and Reeti.



So, Qimat is sitting to the immediate left of Shweta.

Hence, the correct answer is "Qimat".

3. Answer: b

Explanation:

Given: Five friends P, Q, R, S and T.

1) Q scored the highest marks.

Q > __ > __ > __ > __

2) Only two people scored more than P but less than S.

$$Q > S > _ _ > _ _ > P$$

3) T scored more marks than R.

$$Q > S > T > R > P.$$

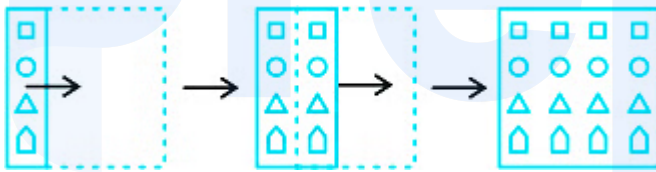
So, R got the fourth highest marks.

Hence, the correct answer is "R".

4. Answer: c

Explanation:

The paper when unfolded will appear as shown below:



Hence, 'option 3' is the correct answer.

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5. Answer: d

Explanation:

The paper when unfolded will appear as shown below:



Hence, 'option 4' is the correct answer.

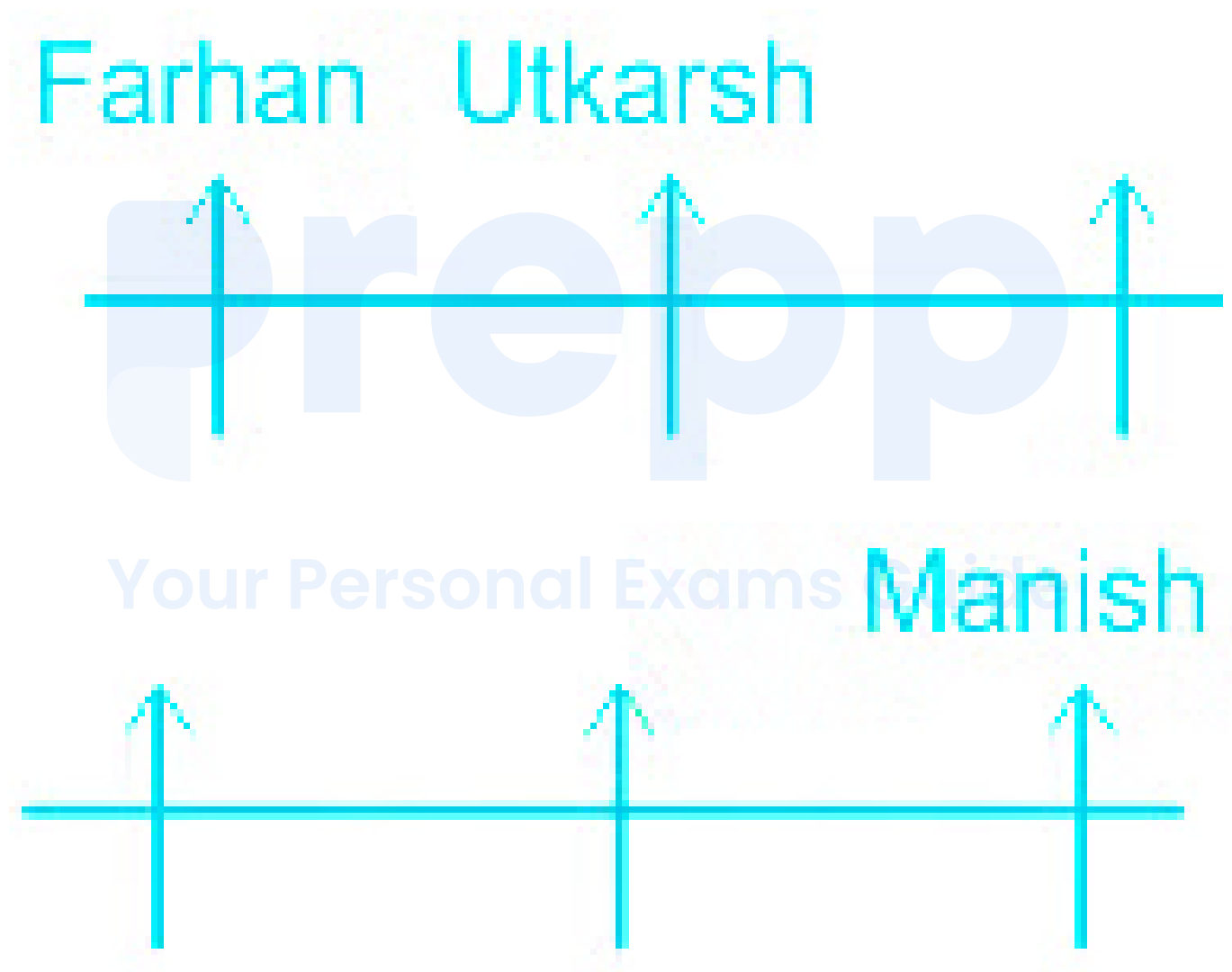
6. Answer: b

Explanation:

Given: Six persons Farhan, Utkarsh, Yugal, Krishna, Chaman and Manish.

1) Utkarsh is in the top row and to the immediate right of Farhan.

2) Farhan and Manish are sitting at diagonally opposite ends.



3) Krishna is second to the left of Manish while Yugal and Krishna are not in the same row.



So, Krishna is sitting at the diagonally opposite end to Yugal.

Hence, the correct answer is "Krishna".

7. Answer: a

Explanation:

Given equation: $133 + 49 - 16 \div 2 \times 34 = 356$.

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) + and -

Given: $133 + 49 - 16 \div 2 \times 34 = 356$

After interchanging the numbers we get;

$\Rightarrow 133 - 49 + 16 \div 2 \times 34 = 356$

$$\Rightarrow 133 - 49 + 8 \times 34 = 356$$

$$\Rightarrow \underline{133} - 49 + \underline{272} = 356$$

$$\Rightarrow \underline{405} - 49 = 356$$

$$\Rightarrow 356 = 356$$

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

Option 2) - and \div

$$\text{Given: } 133 + 49 \div 16 \div 2 \times 34 = 356$$

After interchanging the numbers we get;

$$\Rightarrow 133 + \underline{49 \div 16} - 2 \times 34 = 356$$

$$\Rightarrow 133 + 3.06 - \underline{2 \times 34} = 356$$

$$\Rightarrow \underline{133 + 3.06} - 68 = 356$$

$$\Rightarrow \underline{136.06} - 68 = 356$$

$$\Rightarrow 68.06 \neq 356$$

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

Option 3) \times and $+$

$$\text{Given: } 133 \times 49 - \underline{16 \div 2} + 34 = 356$$

After interchanging the numbers we get;

$$\Rightarrow \underline{133 \times 49} - 8 + 34 = 356$$

$$\Rightarrow \underline{6517} - 8 + \underline{34} = 356$$

$$\Rightarrow \underline{6551} - 8 = 356$$

$$\Rightarrow 6543 \neq 356$$

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

Option 4) \div and \times

Given: $133 + 49 - 16 \div 2 \times 34 = 356$

After interchanging the numbers we get;

$\Rightarrow 133 + 49 - 16 \times \underline{2 \div 34} = 356$

$\Rightarrow 133 + 49 - \underline{16 \times 0.06} = 356$

$\Rightarrow \underline{133 + 49} - 0.96 = 356$

$\Rightarrow \underline{182} - 0.96 = 356$

$\Rightarrow 181.04 \neq 12$

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

Hence, the correct answer is "Option 1".

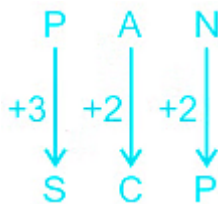
8. Answer: a

Explanation:

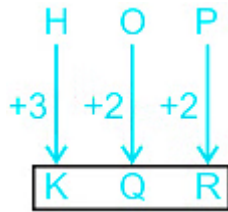
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

For, PAN : SCP



Similarly, for HOP :



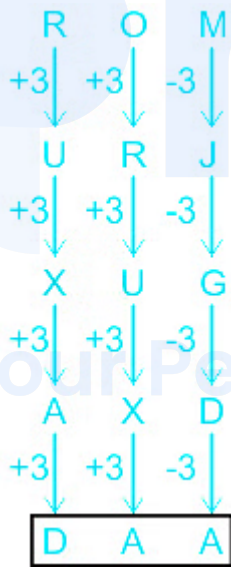
So, ' HOP ' will be coded as 'KQR'.

Hence, the correct answer is "Option 1" .

9. Answer: a

Explanation:

The logic followed here is:



So, 'DAA' will complete the series.

Hence, the correct answer is "DAA" .

10. Answer: c

Explanation:

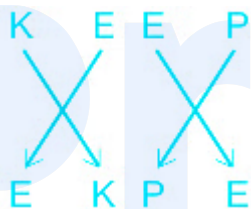
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

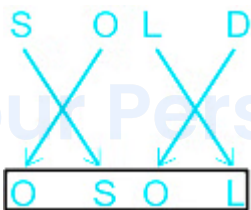
For, TREE : RTEE



For, KEEP : EKPE



Similarly, for SOLO :



Hence, the correct answer is "Option 3" .

11. Answer: d

Explanation:

The logic followed here is:

(1st number × 2nd number = 3rd number) .

Now, (3, 6, 18)

→ (3 × 6 = 18)

For, (5, 7, 35)

→ (5 × 7 = 35)

Similarly, for (6, 14, 84)

→ (6 × 14 = 84)

Hence, the correct answer is "Option 4".

12. Answer: d

Explanation:

Given:

'Here we go west' is written as '8 6 4 9',

'West and east best' is written as '4 @ # pr'

'East direction sun' is written as '# jt qm'

Here we go west → 8 6 4 9

West and east best → 4 @ # pr

East direction sun → # jt qm

So, 'East; will be coded as '#'.

And, 'Direction' will be coded as either 'jt' or 'qm'.

As, 'jt' is not given in the option with #.

So, 'direction east' will be coded as '# qm'.

Hence, the correct answer is "Option 4".

13. Answer: a

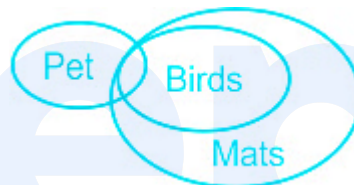
Explanation:

Statement:

Some pets are birds.

All birds are mats.

The least possible diagram for the given statements is as follows:



Conclusions:

(i) All mats are birds - False (It can be possible but not definite).

(ii) Some mats are pets - **True** (Some pets are birds and All birds are mats, so the pets that is birds is definitely mats).









Here, Only conclusion II follows .

Hence, the correct answer is "Option 1".

14. Answer: c

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

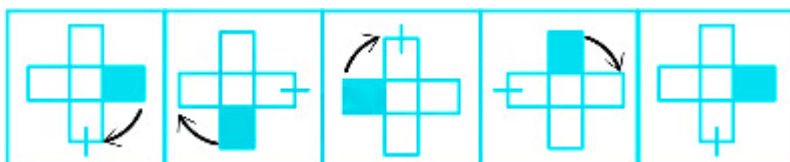
Hence, "Option 2" is the correct answer.

15. Answer: d

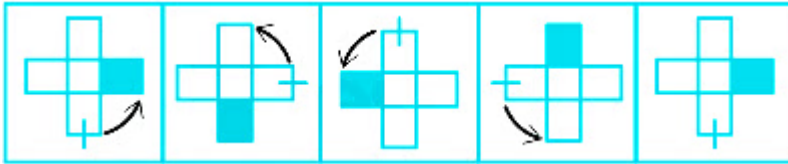
Explanation:

The logic followed here is:

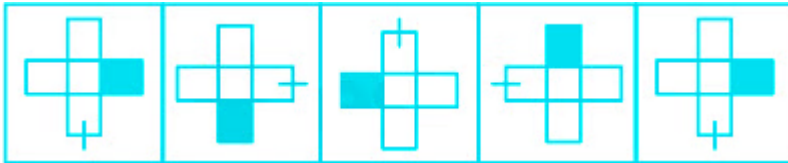
Step I:-



Step II:-



So, the series will be:

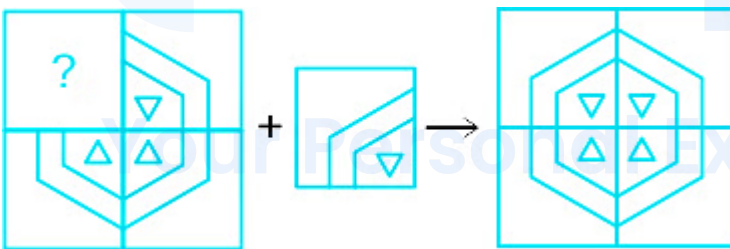


Hence, the correct answer is "Option 4" .

16. Answer: a

Explanation:

The image that completes the pattern is:



Hence, the correct answer is "Option 1" .

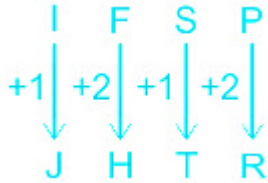
17. Answer: b

Explanation:

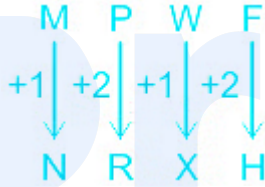
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

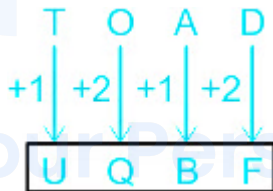
'IFSP' is written as 'JHTR'.



'MPWF' is written as 'NRXH'.



Similarly, for TOAD



So, 'TOAD' will be written as 'UQBF'.

Hence, the correct answer is "UQBF".

18. Answer: b

Explanation:

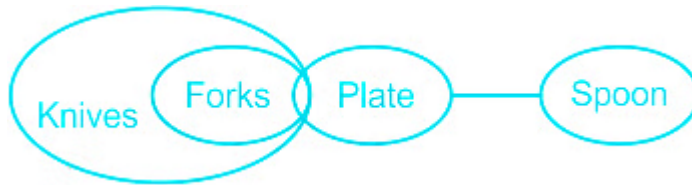
Statement:

No plate is a spoon.

Some plates are forks.

All forks are knives.

The least possible diagram for the given statements is as follows:



Conclusions:

(i) Some plates are knives is a possibility - False (Some plates are forks and All forks are knives, so some plates are knives is definitely true).

(ii) No spoon is a fork - False (Because No direct relation given between them, so It can be possible not definite).

Here, Neither conclusion I nor II follows .

Hence, the correct answer is "Option 2" .

19. Answer: b

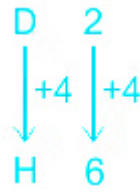
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Explanation:

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:

D 2 is related to H 6 ,



L 11 is related to P 15 ,



Similarly, for T 18



So, 'T 18' will be related to 'X 22'.

Hence, the correct answer is "Option 2".

20. Answer: c

Your Personal Exams Guide

Explanation:

Given equation: $9 + 3 - 4 \div 5 \times 2 = 9$.

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) - and \times

$$\text{Given: } 9 + 3 - 4 \div 5 \times 2 = 9$$

After interchanging the numbers we get;

$$\Rightarrow 9 + 3 \times \underline{4 \div 5} - 2 = 9$$

$$\Rightarrow 9 + \underline{3 \times 0.8} - 2 = 9$$

$$\Rightarrow \underline{9 + 2.4} - 2 = 9$$

$$\Rightarrow \underline{11.4} - 2 = 9$$

$$\Rightarrow 9.4 \neq 9$$

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

Option 2) + and \times

$$\text{Given: } 9 + 3 - 4 \div 5 \times 2 = 9$$

After interchanging the numbers we get;

$$\Rightarrow 9 \times 3 - \underline{4 \div 5} + 2 = 9$$

$$\Rightarrow \underline{9 \times 3} - 0.8 + 2 = 9$$

$$\Rightarrow \underline{27} - 0.8 + \underline{2} = 9$$

$$\Rightarrow \underline{29} - 0.8 = 9$$

$$\Rightarrow 28.2 \neq 9$$

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

Option 3) + and \div

$$\text{Given: } 9 + 3 - 4 \div 5 \times 2 = 9$$

After interchanging the numbers we get;

$$\Rightarrow \underline{9 \div 3} - 4 + 5 \times 2 = 9$$

$$\Rightarrow 3 - 4 + \underline{5 \times 2} = 9$$

$$\Rightarrow \underline{3} - 4 + \underline{10} = 9$$

$$\Rightarrow \underline{13} - 4 = 9$$

$$\Rightarrow \underline{9} = 9$$

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

Option 4) - and +

$$\text{Given: } 9 + 3 - 4 \div 5 \times 2 = 9$$

After interchanging the numbers we get;

$$\Rightarrow 9 - 3 + \underline{4 \div 5} \times 2 = 9$$

$$\Rightarrow 9 - 3 + \underline{0.8 \times 2} = 9$$

$$\Rightarrow \underline{9} - 3 + \underline{1.6} = 9$$

$$\Rightarrow \underline{10.6} - 3 = 9$$

$$\Rightarrow 7.6 \neq 9$$

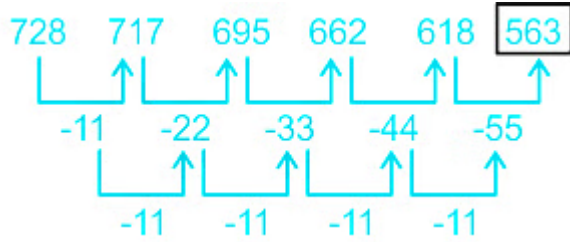
$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Hence, the correct answer is "Option 3".

21. Answer: c

Explanation:

The logic followed here is:



So, '563' will complete the series.

Hence, the correct answer is "563".

22. 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:

Consonant + 1, Vowels is placed as same letters.

'ANAEMIA' is written as 'AOAENIA'.



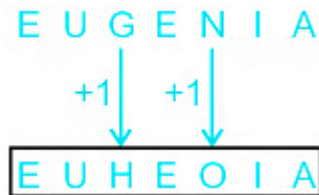
'AQUEOUS' is written as 'ARUEOUT'.



For, 'LIVELY' is written as 'MIWEMZ'.



Similarly, for EUGENIA



So, 'MIWEMZ' will be written as 'EUHEOIA'.

Hence, the correct answer is "Option 3".

23. 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:

Sum of the place value + 3

Now,

'POR' is coded as '52'

$$\Rightarrow P(16) + O(15) + R(18) = 49;$$

$$\Rightarrow 49 + 3 = 52.$$

For, 'AND' is coded as '22'

$$\Rightarrow A(1) + N(14) + D(4) = 19;$$

$$\Rightarrow 19 + 3 = 22.$$

Similarly, for 'VXB'

$$\Rightarrow V(22) + X(24) + B(2) = 48;$$

$$\Rightarrow 48 + 3 = 51.$$

So, 'VXB' will be coded as '51'.

Hence, the correct answer is "51".

24. Answer: b

Explanation:

The logic followed here is:

$$(1st\ number \times 2) - 4 = 2nd\ number.$$

Now, 12 : 20

$$\rightarrow (12 \times 2) - 4$$

$$= 24 - 4 = 20.$$

For, 8 : 12

$$\rightarrow (8 \times 2) - 4$$

$$= 16 - 4 = 12.$$

Similarly, for 34 : ?

$$\rightarrow (34 \times 2) - 4$$

$$= 68 - 4 = 64.$$

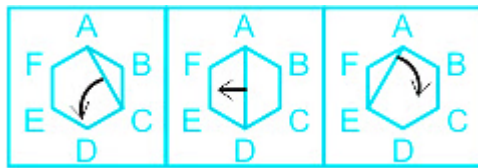
Hence, the correct answer is "Option 2".

25. Answer: a

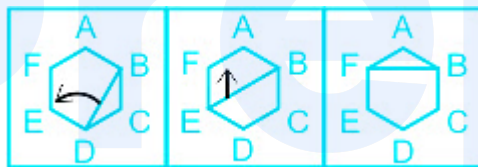
Explanation:

The logic followed here is:

Step I:- The lines moves to: AC, AD, & AE.



Step II:- The lines moves to BD, BE, & BF.



So, the series will be:



Hence, the correct answer is "Option 1".

26. Answer: d

Explanation:

Given:

Vishal sells a bag at a profit of 40%.

Vishal's profit is Rs. 880

Calculation:

According to the question,

$$40\% = \text{Rs. } 880$$

$$\Rightarrow 1\% = 880/40$$

$$\Rightarrow 100\% = 2200$$

So, the cost price = Rs. 2200

\therefore The cost price of the bag is Rs. 2200.

27. **Answer: b**

Explanation:

Given:

A 900 metre long train crosses a 1200 metres long platform entirely in 70 seconds

Concept used:

$$\text{Speed} = \text{Distance}/\text{Time}$$

When a train crosses a platform, it will cover the length of its own + the length of the platform.

Calculation:

$$\text{Total distance covered} = 900 + 1200$$

$$\Rightarrow 2100$$

$$\text{Speed} = 2100/70$$

$$\Rightarrow 30 \text{ m/sec}$$

Now,

$$\text{Speed in km/h} = 30 \times (18/5)$$

$$\Rightarrow 108$$

\therefore The speed of the train is 108 km/h.

28. Answer: d

Explanation:

Given:

Rs. 12,000 is lent for one year at the rate of 15% per annum

Concept used:

$$C.I = P(1 + R/100)^T - P$$

Here,

P = Principal

R = Rate

T = Time

Calculation:

Interest in half yearly

$$12000(1 + 15/200)^2 - 12000$$

$$\Rightarrow 12000(43/40)^2 - 12000$$

$$\Rightarrow 12000 \times 1849/1600 - 12000$$

$$\Rightarrow 13867.5 - 12000$$

⇒ 1867.5

Interest for 1 year = $12000 \times 15\%$

⇒ 1800

Difference = $1867.5 - 1800$

⇒ 67.5

∴ The required answer is Rs. 67.5.

29. Answer: c

Explanation:

Given:

A 480 m long train takes 16 seconds to pass a pole.

Concept used:

Speed = Distance/Time

When a train crosses a platform, it will cover the length of its own + the length of the platform.

When a train crosses a pole, it will cover the length of its own

Calculation:

Speed of the train = $480/16$

⇒ 30 m/sec

Now,

Total distance will be covered = $480 + 900$

⇒ 1380

$$\text{Time} = 1380/30$$

$$\Rightarrow 46 \text{ sec}$$

\therefore It will take 46 seconds to pass the platform.

30. Answer: c

Explanation:

Given:

Rs. 1,000 is divided into three parts in the ratio 2 : 3 : 5

Calculation:

$$\text{1st part} = 1000 \times \frac{2}{10}$$

$$\Rightarrow 200$$

$$\text{2nd part} = 1000 \times \frac{3}{10}$$

$$\Rightarrow 300$$

$$\text{3rd part} = 1000 \times \frac{5}{10}$$

$$\Rightarrow 500$$

So, smallest part = 200

\therefore The smallest part is Rs. 200.

31. Answer: d

Explanation:

Given:

Ishita can read a newspaper in 'n' minutes.

Calculation:

Ishita can read a newspaper in 'n' minutes

Ishita can read $1/n^{\text{th}}$ part of a newspaper in 1 minute.

Ishita can read $7/n^{\text{th}}$ part of a newspaper in 7 minutes.

\therefore The required answer is $\frac{7}{n}$.

32. Answer: a

Explanation:

Given:

There are two numbers such that the first number is four times the second number.
If their average is 65

Concept used:

Average sum = Sum elements/Number of elements

Calculation:

Let the 1st number be $4a$

So, 2nd number is a

According to the question,

$$4a + a = 65 \times 2$$

$$\Rightarrow 5a = 130$$

$$\Rightarrow a = 26$$

So, the second number is

∴ The required answer is 26.

33. Answer: b

Explanation:

Given:

$$p = (5 \div 6) \text{ of } 54 - 40 \div 10 - 41 - 22$$

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:

$$p = (5 \div 6) \text{ of } 54 - 40 \div 10 - 41 - 22$$

$$\Rightarrow p = 5/6 \text{ of } 54 - 40 \div 10 - 41 - 22$$

$$\Rightarrow p = 45 - 40 \div 10 - 41 - 22$$

$$\Rightarrow p = 45 - 4 - 41 - 22$$

$$\Rightarrow p = - 22$$

∴ The required answer is - 22.

34. Answer: a

Explanation:

Given:

The base of a triangle is 16 cm and its area is 144 cm^2 .

Concept used:

Area of a base = $\frac{1}{2} \times \text{base} \times \text{height}$

Calculation:

$$\frac{1}{2} \times 16 \times \text{height} = 144$$

$$\Rightarrow 8 \times \text{height} = 144$$

$$\Rightarrow \text{height} = 18$$

\therefore The required answer is 18 cm.

35. Answer: c

Explanation:

Given:

A train moves at a speed of 35 km/h for the first 2 hours and at a speed of 50 km/h for the next 4 hours.

Formula used:

Average speed = Total distance/total time

Calculation:

$$\text{Total distance} = 2 \times 35 + 4 \times 50$$

$$\Rightarrow 70 + 200$$

$$\Rightarrow 270 \text{ km}$$

Total time = 6 hours

$$\text{Average speed} = 270/6$$

$$\Rightarrow 45 \text{ km/h}$$

\therefore The average speed of the train during the entire journey is 45 km/h.

36. Answer: d

Explanation:

Calculation:

$$\text{Total export figures of all the five years} = (580 + 670 + 630 + 710 + 790) \text{ (in Rs. 000)}$$

$$\Rightarrow 3380000$$

$$\text{Total import figures of all the five years} = (460 + 340 + 510 + 630 + 780) \text{ (in Rs. 000)}$$

$$\Rightarrow 2720000$$

$$\text{Difference} = 3380000 - 2720000$$

$$\Rightarrow \text{Rs. } 6,60,000$$

\therefore The required answer is Rs. 6,60,000.

37. Answer: b

Explanation:

Calculation:

The difference in the percentage shares of buses of C4 and C6 = $48 - 18$

$\Rightarrow 30^\circ$

Difference in % = $(30/360) \times 100$

$\Rightarrow 8.33\%$

\therefore The required answer is **8.33%**.

38. Answer: a

Explanation:

Given:

First article sold at = 20% profit

Second article sold at = 20% loss

Concept used:

$$CP = SP \times 100 / (100 + \text{profit}\%)$$

$$CP = SP \times 100 / (100 - \text{loss}\%)$$

Calculation:

Let the selling price be $120a$

$$\text{So, cost price of 1st item} = 120a \times (100/120)$$

$$\Rightarrow 100a$$

$$\text{Cost price of 2nd item} = 120a \times (100/80)$$

$$\Rightarrow 150a$$

$$\text{Total cost price} = 100a + 150a$$

$\Rightarrow 250a$

Total selling price = $240a$

Loss = $10a$

% of loss = $(10a/250a) \times 100$

$\Rightarrow 4\%$

\therefore The required answer is 4%.

39. Answer: b

Explanation:

Calculation:

The ranks secured by A in Physics = 22

The ranks secured by A in Math = 12

Difference = $22 - 12$

$\Rightarrow 10$

\therefore The required answer is 10.

40. Answer: c

Explanation:

Given:

Rachit invests Rs. 12,000 for a 2-year period at a certain rate of simple interest

Prasad invests Rs. 12,000 for a 2-year period at the same rate of interest per annum as Rachit, but in Prasad's case the interest is compounded annually.

Difference in interest is Rs. 172.8

Concept used:

Difference of C.I and S.I = $P(R/100)^2$

Calculation:

Let the rate of interest be R

So,

$$172.8 = 12000 \times (R/100)^2$$

$$172.8 = 12000 \times R^2/10000$$

$$172.8 = 1.2 \times R^2$$

$$144 = R^2$$

$$12 = R$$

So, rate of interest is 12%

∴ The rate of interest is 12%.

41. **Answer: d**

Explanation:

Given:

$$\frac{5}{12} \times \frac{7}{12} \div \left(\frac{1}{75} + \frac{5}{12} \text{ of } \frac{36}{25} \right) + \frac{4}{5} \times \frac{75}{16}$$

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:

$$\frac{5}{12} \times \frac{7}{12} \div \left(\frac{1}{75} + \frac{5}{12} \text{ of } \frac{36}{25} \right) + \frac{4}{5} \times \frac{75}{16}$$

$$\Rightarrow \frac{5}{12} \times \frac{7}{12} \div \left(\frac{1}{75} + \frac{3}{5} \right) + \frac{4}{5} \times \frac{75}{16}$$

$$\Rightarrow \frac{5}{12} \times \frac{7}{12} \div \left(\frac{1+45}{75} \right) + \frac{4}{5} \times \frac{75}{16}$$

$$\Rightarrow \frac{5}{12} \times \frac{7}{12} \div \frac{46}{75} + \frac{4}{5} \times \frac{75}{16}$$

$$\Rightarrow \frac{5}{12} \times \frac{7}{12} \times \frac{75}{46} + \frac{4}{5} \times \frac{75}{16}$$

$$\Rightarrow \frac{875}{2208} + \frac{15}{4}$$

$$\Rightarrow \frac{875+8280}{2208}$$

$$\Rightarrow \frac{9155}{2208}$$

∴ The required answer is $\frac{9155}{2208}$.

42. Answer: a

Explanation:

Given:

Population of town = 12,000

Percentage increase in population = 10%

Concept used:

Population of the city in n years = initial population $\times (1 + r/100)^n$

Calculation:

Population of the city in 3 years = $12,000 \times (1 + 10/100)^3$

$$\Rightarrow 12000 \times (11/10)^3$$

$$\Rightarrow 12000 \times (1331/1000)$$

$$\Rightarrow 15,972$$

\therefore The population of the town after 3 years is 15,972.

43. Answer: c

Explanation:

Given:

$$16 : X :: X : 196$$

Calculation:

$$16 : X :: X : 196$$

$$\Rightarrow 16/X = X/196$$

$$\Rightarrow X^2 = 16 \times 196$$

$$\Rightarrow X = 4 \times 14$$

$$\Rightarrow X = 56$$

\therefore The required answer is 56.

44. Answer: c

Explanation:

Given:

The mixture of alcohol and water = 80 liters

Initial alcohol concentration = 60%

Calculation:

Amount of alcohol in 80 litre of mixture = 60% of 80 = 48 litres

Amount of water in 80 litre of mixture = 80 - 48 = 32 litres

Also, 40 percent alcohol in the new mixture means 60 percent water in the new mixture

According to question,

$$32 + X = 60/100 \times (80 + X)$$

$$\Rightarrow 5(32 + X) = 3(80 + X)$$

$$\Rightarrow 160 + 5X = 240 + 3X$$

$$\Rightarrow 2X = 80$$

$$\Rightarrow X = 40$$

So, 40 litres of water needs to be added

\therefore The value of 'X' is 40.

45. Answer: b

Explanation:

Given:

Length = 40 cm

Breadth = 20 cm

Height = 10 cm

Formula used:

Volume of Cuboid = lbh

l = Length,

b = Breadth,

h = Height

Calculation:

Volume of Cuboid = lbh

⇒ Volume of Cuboid = $40 \times 20 \times 10$

⇒ Volume of Cuboid = 8000 cm^3

∴ The volume of cuboid is 8000 cm^3 .

46. Answer: d

Explanation:

Given:

Total articles = 30

Marked up by = 30%

Profit = 630

Calculation:

Let the cost price of each article be $10a$

So, total cost price = $300a$

Now,

Marked price of each article is $10a \times 130\%$

$\Rightarrow 13a$

According to the question,

$$15 \times 13a \times 80\% + 15 \times 13a \times 90\% = 300a + 630$$

$$\Rightarrow 156a + 175.5a = 300a + 630$$

$$\Rightarrow 331.5a = 300a + 630$$

$$\Rightarrow 31.5a = 630$$

$$\Rightarrow a = 20$$

So, the cost price of each article = Rs. 200

\therefore The required answer is Rs. 200.

47. Answer: d

Explanation:

Given:

Bobby and Billy can complete a job in 28 days and 20 days

Concept used:

Total work = Efficiency \times time

Calculation:

LCM of 28, 20 = 140 i.e total work

So, efficiency of Bobby = 5 units/day

The efficiency of Billy = 7 units/day

Now,

In 5 days total work done = $(5 + 7) \times 5$

$\Rightarrow 12 \times 5$

$\Rightarrow 60$

Remaining work = $140 - 60$

$\Rightarrow 80$

The remaining work will be completed by Bobby = $80/5$

$\Rightarrow 16$ day

\therefore The required answer is 16 days.

48. Answer: c

Explanation:

Given:

$$[7 \div 14 \times 8 + (5 \div 15 \times 6 - 4 \times 3)]$$

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:

$$[7 \div 14 \times 8 + (5 \div 15 \times 6 - 4 \times 3)]$$

$$\Rightarrow [7 \div 14 \times 8 + (5/15 \times 6 - 4 \times 3)]$$

$$\Rightarrow [7 \div 14 \times 8 + (1/3 \times 6 - 4 \times 3)]$$

$$\Rightarrow [7 \div 14 \times 8 + (2 - 4 \times 3)]$$

$$\Rightarrow [7 \div 14 \times 8 + (2 - 12)]$$

$$\Rightarrow [7 \div 14 \times 8 - 10]$$

$$\Rightarrow [7/14 \times 8 - 10]$$

$$\Rightarrow [1/2 \times 8 - 10]$$

$$\Rightarrow [4 - 10]$$

$$\Rightarrow - 6$$

∴ The required answer is - 6.

49. Answer: a

Explanation:

Given:

The volume of a cone is 27720 cm^3 .

The height of the cone is 20 cm

Concept used:

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

Base area of a cone = πr^2

Calculation:

According to the question,

$$\frac{1}{3}\pi r^2 h = 27720$$

$$\Rightarrow \frac{1}{3}\pi r^2 \times 20 = 27720$$

$$\Rightarrow \pi r^2 = \frac{(27720 \times 3)}{20}$$

$$\Rightarrow \pi r^2 = 4158$$

\therefore The area of the base is 4158 cm^2

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50. Answer: d

Explanation:

Given:

Total employees = 900

Calculation:

Let total male female employees be 10M and 10F

According to the question,

$$10M + 9F = 9.2M + 10F$$

$$\Rightarrow 0.8M = 1F$$

$$\Rightarrow M/F = 5/4$$

So, ratio of male and female = 5 : 4

So, total number of male = $900 \times (5/9)$

$$\Rightarrow 500$$

\therefore The required answer is 500.

51. Answer: c

Explanation:

The correct answer is: **Have an exceptionally fun or exciting experience**

★ **Key Points**

- The idiom "**Have a whale of a time**" means to have an exciting or fun time; to have a big time. (Whale is a way of saying big.) (एक रोमांचक या मजेदार समय बिताने के लिए; अच्छा समय बिताने के लिए)
 - Example - *We had a whale of a time at Sally's birthday party.*
- So, it is clear that the most appropriate meaning of the given idiom "**Have a whale of a time**" is "**Have an exceptionally fun or exciting experience**"

Hence, the correct answer is option 3.

52. Answer: a

Explanation:

The erroneous part of the sentence is: **groups is already working**

★ Key Points

- Replace the verb "is" with "are" to correct the sentence.
- The coordinating conjunction "and" is used to connect two independent clauses.
- The error here lies in the **subject-verb agreement**.
- The basic rule states that a singular subject takes a singular verb while a plural subject takes a plural verb.
- If the individual parts of the compound subject are joined by and, always use a plural verb.
- The given sentence is talking about the "agencies" and "groups"; therefore, a plural verb (**are**) should be used.

Hence, the correct answer is **option 1**, which contains an error.

Corrected sentence: *Public agencies and nonprofit conservation groups **are** already working to promote conservation.*

53. **Answer: d**

Explanation:

The erroneous part of the sentence is: **is that it can either been.**

★ Key Points

- Replace "been" with "be" to correct the sentence.
- The word 'been' is the past participle form of the verb 'be'.
- The given sentence is written in the present tense.
- So, the present verb form "be" should be used.

Therefore, the correct answer is **option 4**, which contains an error.

Corrected sentence: *The thing about anger is that it can either **be** a helpful emotion or a discouraging one.*

54. Answer: b

Explanation:

The correct answer is: **Hypochondriac**

★ Key Points

- **Hypochondriac** means a state in which a person continuously worries about their health without having any reason to do so. (एक व्यक्ति जो अपने स्वास्थ्य के बारे में असामान्य रूप से चिंतित है)
- So, it is clear that '**Hypochondriac**' can be used as a one-word substitute for '**A person exhibiting excessive worry about one's health**'

Therefore, the correct answer is option 2.

★ Additional Information

- **Intellectual** means a person possessing a highly developed intellect. (अत्यधिक विकसित बुद्धि रखने वाला व्यक्ति)
- **Megalomaniac** means a person who has an obsessive desire for power. (एक व्यक्ति जिसे सत्ता की जुनूनी इच्छा है)
- **Expert** means a person who is very knowledgeable about or skillful in a particular area. (एक व्यक्ति जो किसी विशेष क्षेत्र के बारे में बहुत जानकार या कुशल है)

55. Answer: b

Explanation:

The correct answer is: **work hard to**

★ Key Points

- Replace "**hardly**" with "**hard**" to correct the sentence.
- **Hard** (adjective) means with a great deal of effort.

- Adding **-ly** to an adjective makes an adverb. (**Hardly**)
- An **adjective** is a word that describes nouns, such as large or beautiful.
- An **adverb** is a word that describes verbs, adjectives, and other adverbs, such as silently or really.
- "**work hard**" is like saying "**doing hard work**."
- "**Too**" is an adverb. It can be used to replace words such as "excessively", "additionally", "as well" or "also".
- "**To**" on the other hand, is a versatile preposition that can be used in various situations and contexts. It's used to indicate a direction, like "toward" and "until".

The implied meaning of the given sentence is: "I put forth a lot of effort to provide for my family."

Therefore, **option 2** is the correct answer that will improve the underlined part of the given sentence.

Corrected sentence: *I work hard to earn bread and butter for my family.*

56. **Answer: b**

Explanation:

The erroneous part of the sentence is: **with some off my**

★ Key Points

- Replace the preposition "**off**" with '**of**' to correct the sentence.
- **Off** means away from the place in question; to or at a distance.
- **Of** is used in expressing the relationship between a part and a whole.
- In "**some of my friends**", we are using "**some**" to mean "**a part of the total number**".

Therefore, the correct answer is **option 2**, which contains an error.

Corrected sentence: *I was at a party with some of my friends in Mumbai.*

57. Answer: c

Explanation:

The correct answer is: **False tears**

★ Key Points

- The idiom "**Crocodile tears**" means tears that you cry when you are not really sad or sorry. (झूठे आँसू)
 - Example - *They weep crocodile tears for the poor and disadvantaged, but are basically happy with things as they are.*
- So, it is clear that the most appropriate meaning of the given idiom "**Crocodile tears**" is "**False tears**"

Hence, the correct answer is option 3.

58. Answer: a

Explanation:

The correct answer is: **A balloon may leave the earth with a charge.**

★ Key Points

- The misspelt words in the given sentence are **baloon**, **liave**, and **charg**.
- Let's look at the correct spellings:
 - **Baloon = Balloon**
 - Meaning: A small, thin, rubber bag that you blow air into so that it becomes larger and rounder or longer.
 - **Liave = Leave**
 - Meaning: Go away from.
 - **Charg = Charge**
 - Meaning: A definite quantity of electricity.

Therefore, except for **option 1**, the rest of the options are incorrect.

Corrected sentence: A balloon may leave the earth with a charge.

59. Answer: c

Explanation:

The correct answer is: **Discourage**

★ Key Points

- **Moil** means to work hard; drudge. (कठिन परिश्रम करके; परिश्रम से काम करना)
 - Example - *Greta devoted her mornings to moil in the gym's weight room.*
- Marked option **Discourage** means cause someone to lose confidence or enthusiasm. (किसी के आत्मविश्वास या उत्साह को खोने का कारण)
 - Example - *We want to discourage children from smoking.*
- It is clear that '**Moil**' and '**Discourage**' are opposite in meaning.

Therefore the correct answer is option 3.

★ Additional Information

- **Cultivate** means try to acquire or develop a quality or skill. (किसी गुण या कौशल को प्राप्त करने या विकसित करने का प्रयास करें)
 - **Grow** means become larger or greater over a period of time; increase. (समय की अवधि में बड़ा या बड़ा हो जाना; बढ़ोतरी)
 - **Work** means activity involving mental or physical effort done in order to achieve a purpose or result. (किसी उद्देश्य या परिणाम को प्राप्त करने के लिए किए गए मानसिक या शारीरिक प्रयास से जुड़ी गतिविधि)
-

60. Answer: c

Explanation:

The correct answer is: **Inability**

★ Key Points

- **Inability** means the state of being unable to do something. (कुछ करने में असमर्थ होने की अवस्था या भाव)
 - Example - *The **inability** to use a computer is a serious disadvantage when you are applying for jobs.*
- Therefore, except for option 3, the rest of the options are incorrect.

Hence, the correctly spelt word is '**Inability**' which is mentioned in option no 3 .

61. Answer: d

Explanation:

The correct answer is: **Resistant**

★ Key Points

- **Obedient** means doing, or willing to do, what you have been told to do by someone in authority. (करना, या करने को तैयार, जो आपको किसी प्राधिकारी द्वारा करने के लिए कहा गया है)
 - Example - *Students are expected to be quiet and **obedient** in the classroom.*
- Marked option **Resistant** means not easily changed or damaged, or not accepting of something. (आसानी से परिवर्तित या क्षतिग्रस्त नहीं होना, या किसी चीज़ को स्वीकार न करना)
 - Example - *Some of the old Churches are **resistant** to change*
- It is clear that '**Obedient**' and '**Resistant**' are opposite in meaning.

Therefore the correct answer is option 4.

★ Additional Information

- **Compliant** means willingly do what they are asked to do. (स्वेच्छा से वह करें जो उन्हें करने के लिए कहा जाता है)

- **Submissive** means to obey someone without arguing. (बिना बहस किए किसी की बात मानना)
- **Cheery** means feeling or showing happiness. (खुशी महसूस करना या दिखाना)

62. Answer: b

Explanation:

The correct answer is: **Complicated**

★ Key Points

- **Intricate** means having many complexly interrelating parts or elements. (कई जटिल परस्पर संबंधित भागों या तत्वों का होना)
 - Example - *The watch mechanism is extremely **intricate** and very difficult to understand.*
- Marked option **Complicated** means involving a lot of different parts, in a way that is difficult to understand. (बहुत सारे अलग-अलग हिस्सों को एक तरह से शामिल करना, जिसे समझना मुश्किल है)
 - Example - *The instructions look very **complicated**.*
- It is clear that '**Intricate**' and '**Complicated**' are similar in meaning.

Therefore the correct answer is option 2.

★ Additional Information

- **Basic** means forming an essential foundation or starting point; fundamental. (एक आवश्यक नींव या प्रारंभिक बिंदु बनाना; मौलिक)
- **Painted** means covered or decorated with paint. (रंग से ढका या सजाया हुआ)
- **Developed** means to grow or change into a more advanced, larger, or stronger form. (अधिक उन्नत, बड़े या मजबूत रूप में विकसित या परिवर्तित होना)

63. Answer: a

Explanation:

The correct answer is: **is to go and have**

★ Key Points

- Replace the verb form " **to going** " with " **to go** " and " **has** " with " **have** " to correct the sentence.
- When want, learn and offer are followed by another verb, it must be in the **to + infinitive** form.
- The given sentence is talking about a proposed plan, that is going to happen in the near future.
- The " **ing** " form of the verb is used only in continuous tenses.
- So, " **to + base verb (go)** " should be used in the given sentence.
- " **Have** " is a verb that means to possess something or to do something.
- ' **Has** ' is also a verb that means the subject has done something at some point in their life.
- We commonly use the expression " **have dinner** " to refer to the main meal eaten either in the middle of the day or in the evening.

Therefore, the correct answer is **option 1**, the most appropriate option to substitute the underlined segment in the given sentence.

Corrected sentence: *A better plan is to go and have a lavish dinner at a fine restaurant.*

64. Answer: a

Explanation:

The correct answer is: **Cannibal**

★ Key Points

- **Cannibal** means a person who eats the flesh of other human beings. (एक व्यक्ति जो दूसरे मनुष्यों का मांस खाता है)

- So, it is clear that '**Cannibal**' can be used as a one-word substitute for '**One who feeds on human flesh**'

Therefore, the correct answer is option 1.

★ Additional Information

- **Hedonist** means a person who believes that the pursuit of pleasure is the most important thing in life; a pleasure-seeker. (सुख चाहने वाला मनुष्य)
- **Stoic** means a person who can endure pain or hardship without showing their feelings or complaining. (एक व्यक्ति जो अपनी भावनाओं को दिखाए बिना या शिकायत किए बिना दर्द या कठिनाई सह सकता है)
- **Samaritan** means a charitable or helpful person. (एक परोपकारी या मददगार व्यक्ति)

65. Answer: c

Explanation:

The correct answer is: **Expensively**

★ Key Points

- **Extravagantly** means in a way that causes you to spend too much money. (एक तरह से जिसके कारण आपको बहुत अधिक पैसा खर्च करना पड़ता है)
 - Example - *It is an extravagantly priced car.*
- Marked option **Expensively** means in a way that costs a lot of money. (एक तरह से जिसमें बहुत पैसा खर्च होता है)
 - Example - *There are other restaurants where you can eat less expensively.*
- It is clear that '**Extravagantly**' and '**Expensively**' are similar in meaning.

Therefore the correct answer is option 3.

★ Additional Information

- **Modestly** means not talking much about self abilities or achievements. (अपनी क्षमताओं या उपलब्धियों के बारे में ज्यादा बात नहीं करना)

- **Economically** means in a way that involves careful use of money or resources. (एक तरह से जिसमें धन या संसाधनों का सावधानीपूर्वक उपयोग शामिल है)
- **Meagerly** means lacking desirable qualities such as richness or strength. (समृद्धि या ताकत जैसे वांछनीय गुणों की कमी)

66. Answer: a

Explanation:

The correct answer is: **never**

★ Key Points

- Let's look at the meaning of the given words.
 - **Never** means at no time in the past or future; not ever.
 - **No** is used to give a negative response.
 - **Neither** means not the one nor the other of two people or things.
 - **Nor** is used before the second or last of a series of negative possibilities that usually begin with "neither"
- The implied meaning of the sentence is: There is never a bad time to launch your own company.
- So, as per the meaning of the given words "**never**" is the most appropriate option to fill in the blank.

Therefore, the correct answer is **option 1**.

Complete sentence: *It's never too late to start your own business.*

67. Answer: a

Explanation:

The correct answer is: to

★ Key Points

- Let's look at the uses of the given prepositions.
 - To is used as an infinitive of purpose to mean 'in order to'.
 - Example - *Susan hasn't worked so hard to give up!*
 - At is used for particular points in time.
 - Example - *Meet me at midnight.*
 - On is used to indicate position, usually indicating that something is on top of something else.
 - Example - *He has a tattoo on his arm.*
 - Of is used to express the relationship between a part and a whole.
 - Example - *I always dreamed of being famous.*
- We use "to + verb" when we need to present the purpose or the intention of an action.
- "to guess" means an estimate or conclusion formed by guessing.
- So, as per the uses of the given prepositions, "to" should be used in the given sentence.

Therefore, the correct answer is option 1.

Complete sentence: *It was impossible to guess what he was doing.*

68. Answer: b

Explanation:

The correct answer is: **Indistinct**

★ Key Points

- **Evident** means clearly seen or understood; obvious. (स्पष्ट रूप से देखा या समझा हुआ)
 - Example - *I t quickly became evident that someone had broken in.*
- Marked option **Indistinct** means not clear or sharply defined. (स्पष्ट या तीव्र रूप से परिभाषित नहीं)
 - Example - *His speech was slurred and indistinct.*
- It is clear that '**Evident**' and '**Indistinct**' are opposite in meaning.

Therefore the correct answer is option 2.

★ Additional Information

- **Obvious** means easily seen, recognized, or understood. (आसानी से देखा, पहचाना या समझा जा सकता है)
- **Stubborn** means determined to do what he or she wants and refuses to do anything else. (वह जो चाहता है उसे करने के लिए दृढ़ है और कुछ भी करने से इंकार करता है)
- **Irritable** means having or showing a tendency to be easily annoyed. (आसानी से नाराज होने की प्रवृत्ति होना या दिखाना)

69. Answer: d

Explanation:

The correct answer is: **Anarchist**

★ Key Points

- **Anarchist** means a person who rebels against any authority, established order, or ruling power. (एक व्यक्ति जो किसी प्राधिकरण, स्थापित आदेश या शासक शक्ति के खिलाफ विद्रोह करता है)
- So, it is clear that '**Anarchist**' can be used as a one-word substitute for '**A person who believes in or tries to bring about a state of lawlessness**'

Therefore, the correct answer is option 4.

★ Additional Information

- **Ephemeral** means lasting for a very short time. (बहुत कम समय तक चलने वाला)
- **Deluge** means an overflowing of the land by water. (पानी के द्वारा भूमि का अतिप्रवाह)
- **Gazette** means a journal or newspaper. (एक पत्रिका या समाचार पत्र)

70. Answer: a

Explanation:

The correct answer is: **tragic**

★ **Key Points**

- Let's look at the meaning of the given words.
 - **Tragic** means causing or characterized by extreme distress or sorrow. (अत्यधिक संकट या दुःख के कारण या विशेषता)
 - **Fragile** means easily broken or damaged. (आसानी से टूटा या क्षतिग्रस्त)
 - **Gentle** means having or showing a mild, kind, or tender temperament or character. (सौम्य, दयालु, या कोमल स्वभाव या चरित्र होना या दिखाना)
 - **Dissuasive** means to persuade someone not to do something. (किसी को कुछ न करने के लिए राजी करना)
- As per the meaning of the given words, "**tragic**" is the appropriate option to fill in.
- **The implied meaning of the sentence is:** It was devastating for all of us when our uncle passed away suddenly.

Hence, the correct answer is option 1.

Complete sentence: *The sudden death of our uncle was **tragic** for all of us.*

71. **Answer: c**

Explanation:

The correct answer is: on

★ **Key Points**

- Let's look at the uses of the given prepositions.
 - At is used for particular points in time.
 - Example - *Meet me at midnight* .
 - Into is used to talk about the movement of something, usually with a verb that expresses movement.
 - Example - *Please put the bowl into the sink.*

- On is used to indicate position, usually indicating that something is on top of something else.
 - Example - *He has a tattoo ON his arm.*
- In is used when something is located inside of a defined space.
 - Example - *The quote appeared in a blog post.*
- "On Earth" means on the surface of Earth.
- So, as per the uses of the given prepositions, " on " should be used in the given sentence.

Therefore, the correct answer is option 3 .

Complete passage: *Nitrogen is essential to life.(1) onEarth. It is a component of all proteins, and it can be (2)_____ in all living systems. Nitrogen compounds are (3)_____ in organic materials, foods, fertilizers, explosives, and poisons. Nitrogen is crucial to life, (4)_____ in excess it can also be (5)_____ to the environment.*

72. Answer: d

Explanation:

The correct answer is: found

★ Key Points

- Let's look at the meaning of the given words.
 - Founder means someone who establishes an organization.
 - Find means to discover something.
 - Founded means established or originated an institution or organization.
 - Found means having been discovered.
- The implied meaning of the sentence is: It is present in all living things.
- So, as per the meaning of the given words, " found " should be used in the given sentence.

Therefore, the correct answer is option 4 .

Complete passage: Nitrogen is essential to life (1) on Earth. It is a component of all proteins, and it can be (2) found in all living systems. Nitrogen compounds are (3) _____ in organic materials, foods, fertilizers, explosives, and poisons. Nitrogen is crucial to life, (4) _____ in excess it can also be (5) _____ to the environment.

73. Answer: d

Explanation:

The correct answer is: **present**

★ Key Points

- Let's look at the meaning of the given words.
 - **Function** means working or operating in a proper or particular way. (उचित या विशेष तरीके से काम करना या संचालित करना)
 - **Instant** means happening or coming immediately. (हो रहा है या तुरंत आ रहा है)
 - **Immediate** means happening or done without delay or very soon after something else. (हो रहा है या बिना किसी देरी के या बहुत जल्द किसी और चीज के बाद हो रहा है)
 - **Present** means existing or occurring. (विद्यमान या होने वाला)
- The implied meaning of the sentence is: Organic materials, foods, fertilizers, explosives, and toxins all include nitrogen molecules.
- So, as per the meaning of the given words, " present " should be used in the given sentence.

Therefore, the correct answer is option 4 .

Complete passage: Nitrogen is essential to life (1) on Earth. It is a component of all proteins, and it can be (2) found in all living systems. Nitrogen compounds are (3) present in organic materials, foods, fertilizers, explosives, and poisons. Nitrogen is crucial to life, (4) _____ in excess it can also be (5) _____ to the environment.

74. Answer: c

Explanation:

The correct answer is: but

★ Key Points

- Let's look at the use of the given words.
 - Such is used for the type previously mentioned.
 - Because is used to introduce a word or phrase that stands for a clause expressing an explanation or reason.
 - But is used to introduce a phrase or clause contrasting with what has already been mentioned.
 - If is used a condition or supposition.
- So, as per the use of the given words, " but " should be used in the given sentence.

Therefore, the correct answer is option 3 .

Complete passage: Nitrogen is essential to life (1) on Earth. It is a component of all proteins, and it can be (2) found in all living systems. Nitrogen compounds are (3) present in organic materials, foods, fertilizers, explosives, and poisons. Nitrogen is crucial to life, (4) but in excess, it can also be (5) _____ to the environment.

Your Personal Exams Guide

75. Answer: a

Explanation:

The correct answer is: harmful

★ Key Points

- Let's look at the meaning of the given words.
 - Harmful means causing or likely to cause harm. (नुकसान पहुँचाने या होने की संभावना)
 - **Pliable** means easily bent; flexible. (आसानी से मुड़ा हुआ; लचीला)

- Optimistic means hopeful and confident about the future. (भविष्य को लेकर आशान्वित और आश्वस्त हैं)
- Rational means based on or in accordance with reason or logic. (कारण या तर्क के आधार पर या उसके अनुसार)
- The implied meaning of the sentence is: Nitrogen is necessary for life, but too much of it may be bad for the ecosystem.
- So, as per the use of the given words, " harmful " should be used in the given sentence.

Therefore, the correct answer is option 1 .

Complete passage: *Nitrogen is essential to life (1) on Earth. It is a component of all proteins, and it can be (2) found in all living systems. Nitrogen compounds are (3) present in organic materials, foods, fertilizers, explosives, and poisons. Nitrogen is crucial to life, (4) but in excess, it can also be (5) harmful to the environment.*

76. Answer: b

Explanation:

The correct answer is Bharatanatyam.

★ Key Points

- T. Balasaraswati, in full Thanjavur Balasaraswati, (born May 13, 1918, Madras [now Chennai], India died February 9, 1984, Madras).
- She was an Indian dancer and singer in the Karnatak (South Indian) tradition.
- She was one of the 20th century's foremost exponents of the Bharata Natyam style of classical dance.

★ Additional Information

Dances	Origin	Main Reviving Personals	Famous Proponents
Bharatnatyam	Tamil Nadu	E. Krishna Iyer, Rukmini devi Arindal	Yamini Krishnamurthy, Lakshmi Vishwanathan, Padma Subramaniam, Mrinalini Sarabhai, Mallika Sarabhai
Kuchipudi	Andhra Pradesh	Ragini Devi	Radha Reddy And Raja Reddy, Yamini Krishnamurthy, Indrani Rehman
Kathakali	Kerala	V. N. Menon	Guru Kunchu Kurup, Gopinath, Kottakal Sivaraman, Rita Ganguly
Odissi	Odisha	Indrani Rehman, Charles Fabri	Guru Pankaj Charan Das, Kelu Charan Mohapatra, Sonal Mansingh, Sharon Lowen, MYrla Barvie
Manipuri	Manipur	Raja Bhag Chandra, Rabindranath Tagore	Nayana, Suverna, Ranjana and Darshna, Guru Bipin Singha
Kathak	Uttar Pradesh	Lady Leela Sokhey	Birju Maharaj, Lacchu Maharaj, Sitara Devi, Damyanti Joshi
Sattriya	Assam	Shankaradeva	-
Mohiniattam	Kerala	V. N. Menon, kalayani Amma	Sunanda Nair, Kalamandalam kshnavathy, Madhuri Amma, Jayaprabha Menon

77. Answer: c

Explanation:

The correct answer is Avani Lekhara.

★ Key Points

- **Avani Lekhara**
 - Indian shooter Avani Lekhara has won a gold medal in women's 10 metre air rifle shooting at Tokyo Paralympics.
 - She has won the first gold for the country at the Tokyo Paralympic Games.
 - She won the bronze medal in the women's 50m rifle 3 positions SH1 event with a score of 445.9 to become the first Indian woman to win two medals at the Paralympics.

★ Additional Information

- Tokyo Paralympic Games 2020
 - Indian contingent finished their campaign at the Tokyo Paralympic Games 2020 on 5 September 2021 at an all-time high by securing a total of 19 medals.
 - It includes 5 gold, 8 silver, and 6 bronze medals.
 - Out of a total of 162 nations, India has finished 24th in the overall medal tally, while its accomplishment of 19 medals is ranked 20th based on the number of medals.

78. Answer: d

Explanation:

The correct answer is Luni.

★ Key Points

- Luni River- The Luni is the largest river in the Thar Desert of northwest India.
 - It originates from the western slopes of the Aravalli ranges. After flowing for about 495 km in a south-westerly direction in Rajasthan, the river

disappears in the marshy land of Rann of Kutch.

★ Additional Information

- Krishna River-
 - Krishna is the second largest peninsular river covering the area of Andhra Pradesh, Telengana, Maharashtra, and Karnataka.
 - It originates at Mahabaleshwar Maharashtra.
 - Right bank Tributaries: the Ghatprabha, the Malprabha, and the Tungabhadra.
 - Left Bank Tributaries: the Bhima, the Musi, and the Munneru.
- Narmada River-
 - The Amarkantak region is where the Narmada River, the Son River, and Johila River (Tributary of Son) emerge.
 - It is a west flowing river. Narmada is also known as the Rewa River.
 - The River flows through Gujarat, Chhattisgarh Madhya Pradesh, and Maharashtra.
 - The tributaries of the Narmada River are Kolar River, Shakkar River, Dudhi River, Tawa River, and Hiran
- Tapi River-
 - It originates from Multai in Betul district of Madhya Pradesh.
 - The river flows through M.P., Maharashtra, and Gujarat.
 - Tapi is a west-flowing river.

79. Answer: c

Explanation:

The correct answer is 7 to 7.5.

★ Key Points

- **S mall intestine**
 - The small intestine is the longest part of the digestive system which extends from the stomach to the large intestine.
 - It is approximately 7 to 7.5 meters (23 to 25 feet) long.

- It is divided into three parts named duodenum, jejunum, and ileum.
- The main function of the small intestine is that it helps to complete the digestion of food and absorb nutrients.

★ Additional Information

Duodenum:

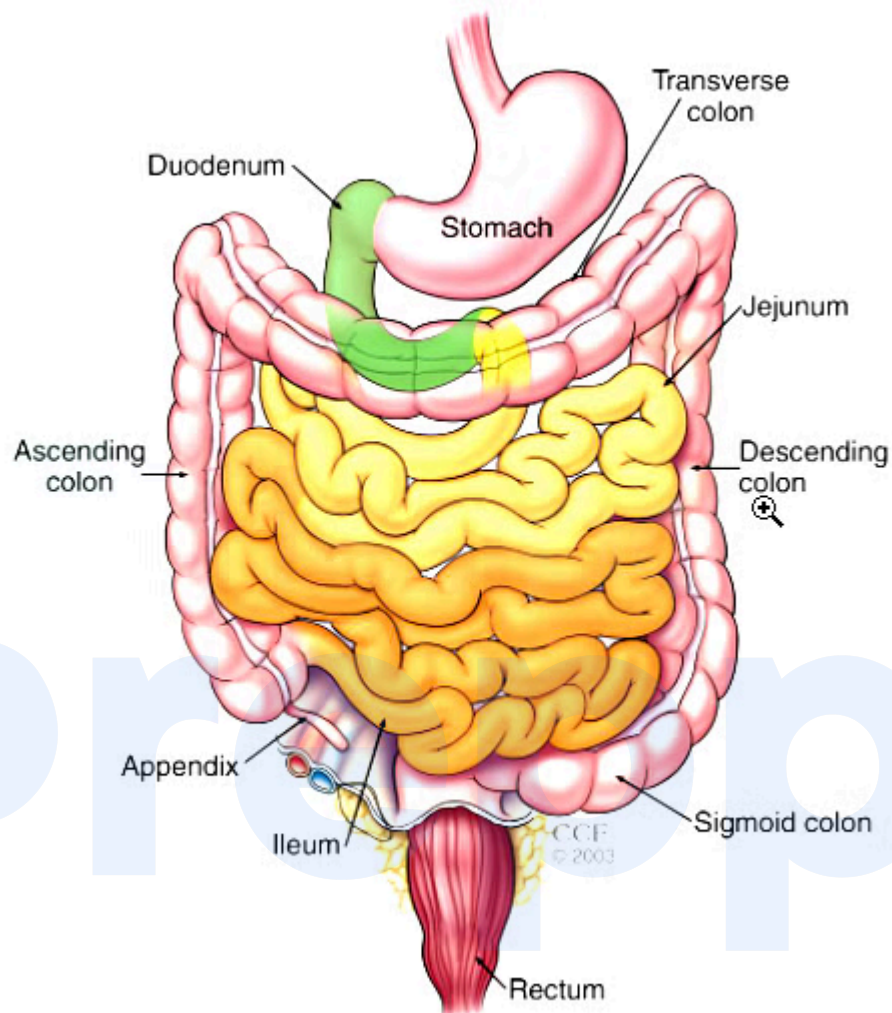
- This is the main component.
- The small intestine which takes part in digestion resembles like U shape.
- The duodenum is the shortest section, on average measuring from 20 cm to 25 cm in length.
- Its proximal end is connected to the antrum of the stomach.
- The distal end blends into the beginning of the jejunum.

Jejunum:

- It is less coiled than Ileum.
- The jejunum is roughly 2.5 meters in length.

Ileum:

- It is the more coiled structure of the small intestine.
- Here the maximum amount of food is absorbed into the blood.
- The ileum is the final portion of the small intestine, measuring around 3 meters.
- It ends at the cecum.



Your Personal Exams Guide

80. Answer: c

Explanation:

The correct answer is Bhavani Devi.

★ Key Points

- **Bhavani Devi**
 - Tamil Nadu's Bhavani Devi, the 1st Indian fencer to qualify for the Olympics, was felicitated by Indian Fencing Association.

- The 27-year-old qualified for the Tokyo Olympics through the Adjusted Official Ranking (AOR) method.
- In March 2021 ending, Bhavani storms into semifinals of the Women's sabre individual competition in the 31st Senior National Fencing Championships at Delhi Public School.

★ Additional Information

- **Tokyo Olympics 2020**
 - India won 7 medals at Tokyo Olympics 2020, which includes 1 Gold, 2 Silver, and 4 Bronze medals.
 - Neeraj Chopra won a Gold medal in the Javelin Throw event.
 - Ravi Kumar Dahiya won a Silver medal in Men's Wrestling 57KG category.
 - Mirabai Chanu won a Silver medal in the Women's Weightlifting 49 KG category.
 - P.V. Sindhu won a Bronze medal in Women's Singles Badminton.
 - Lovlina Borgohain won a Bronze medal in the Women's Welterweight Boxing category.
 - Indian Men's Hockey team won the Bronze medal.
 - Bajrang Punia won a Bronze medal in Men's Wrestling 65 KG category.

81. Answer: a

Explanation:

The correct answer is microfinance.

★ Key Points

- Microfinance:
 - Microfinance is a basis of financial services for entrepreneurs and small businesses deficient in contact with banking and associated services.
 - The two key systems for the release of financial services to such customers include 'relationship-based banking' for individual entrepreneurs and small businesses along with 'group-based models'

where several entrepreneurs come together to apply for loans and other services as a group.

- Similar to banking operation traditions, microfinance entities are supposed to charge their lender's interests on loans.
- In most cases the so-called interest rates are lower than those charged by normal banks, certain rivals of this concept accuse microfinance entities of creating gain by manipulating the poor people's money.
- This includes both the consumers and the self-employed.
- Microfinance apart from microcredit, the provision of small loans to poor clients also covers many other services.
- Micro Finance covers a wide range of services like credit facilities, saving facilities, insurance facilities, remittance, Short duration loans, Fund Transfer and also non-financial services like training, counseling etc

82. Answer: a

Explanation:

The correct answer is Bryophytes.

★ Key Points

- Bryophytes:
 - In the plant kingdom, bryophytes are known as amphibians.
 - A bryophyte is a nonvascular plant that is green, seedless and belongs to the mosses, liverworts, or hornworts family.
 - Bryophytes are among the simplest of terrestrial plants.
 - In Bryophyta, there is a lack of xylem and phloem tissue.
 - They lack true roots, stem and leaves.
 - Bryophytes are known as the amphibians of the plant kingdom because they live in the soil but need water to reproduce sexually.
 - They prefer moist, humid, and shady environments.
 - On bare rocks/soil, they serve a vital role in plant succession.

★ Additional Information

Thallophytes	<ul style="list-style-type: none"> The body the plants in the group Thallophytes are thallus that means the plant is not differentiated into stems or leaves. Thallophyta is divided into two groups algae and fungi.
Pteridophyta	<ul style="list-style-type: none"> Plants from this group have well-developed roots, stem and leaves, and separate tissues for conduction of food and water. But, they do not bear flowers and fruits. They reproduce with the help of spores formed along the back or posterior surface of their leaves. Examples - ferns like Nephrolepis, Marsilea, Pteris, Adiantum, Equisetum, Selaginella, Lycopodium, etc.
Angiosperms	<ul style="list-style-type: none"> <u>Angiosperms</u> are also known as Flowering plants. The word Angiosperms is made from two Greek words: Angio which means covered and Sperma which means seed. Plant seeds having two cotyledons are called dicots. Plant seeds having one cotyledon are called monocotyledons or monocots.

Your Personal Exams Guide

83. Answer: b

Explanation:

The correct answer is Bodh Gaya.

★ Key Points

- Buddha attained enlightenment at Bodh Gaya in Bihar.
- He attained enlightenment under a peepal tree at Bodh Gaya where he meditated for days.

- After attaining enlightenment, he came to be known as Buddha or the wise one.
- The day Gautam Buddha attained enlightenment is celebrated as Buddha Purnima.
- The exact date of is based on the Asian lunisolar calendars and is primarily celebrated in Baisakh month.

★ Additional Information

- The Buddha had instructed his followers to cremate his body as the body of a universal monarch would be cremated and then to distribute the relics among various groups of his lay followers, who were to enshrine them in hemispherical reliquaries called stupas.
- His body lay in a coffin for seven days before being placed on a funeral pyre and was set ablaze by the Buddha's chief disciple, Mahakashyapa, who had been absent at the time of the Buddha's death.
- After the Buddha's cremation, his relics were entrusted to a group of lay disciples, but armed men arrived from seven other regions and demanded the relics. In order to avert bloodshed, a monk divided the relics into eight portions.
- According to tradition, 10 sets of relics were enshrined, 8 from portions of the Buddha's remains, 1 from the pyre's ashes, and 1 from the bucket used to divide the remains.
- The stupa ("stupa" is Sanskrit for heap) is an important form of Buddhist architecture, though it predates Buddhism. The custom of rearing stupas was pre-Buddhist.
- A stupa is a dirt burial mound faced with stone. In Buddhism, the earliest stupas contained portions of the Buddha's ashes, and as a result, the stupa began to be associated with the body of the Buddha.

84. Answer: a

Explanation:

The correct answer is Priyanka Chopra Jonas.

★ Key Points

- Unfinished is a 2021 memoir by Indian actress Priyanka Chopra.
- This book can be described as a "collection of personal essays, stories, and observations", the book chronicles important moments in Chopra's life.
- It was released by Penguin Random House in India on 9 February 2021.
- Ballantine Books published this book in the United States and Michael Joseph in the United Kingdom.
- It reached The New York Times Best Seller list in the United States and topped the Nielsen BookScan bestseller list in India.

★ Additional Information

- Priyanka Chopra Jonas was born on 18 July 1982 and is an Indian actress, producer, model, and singer.
- Priyanka Chopra was appointed as the national and global UNICEF Goodwill Ambassador for child rights in 2010 and 2016.
- In 2016, the Government of India honored Priyanka Chopra with the Padma Shri.
- She has received numerous accolades, including two National Film Awards and five Filmfare Awards.

85. Answer: b

Explanation:

The correct answer is Magh Bihu.

★ Key Points

Magh Bihu:

- Bihu is a traditional festival of the state of Assam.
- Magh Bihu is celebrated on the 14 and 15 of January (1st and 2nd Magh, the tenth month of the Assamese calendar).
- The first day is called Uruka.

- That day people build a temporary shed called Bhela Ghar and have a community feast.
- Bora is a common variety of rice used in Assam.
- These are 'sticky' rice.
- People also eat cheva rice and pitha with tea.
- People also roast sweet potatoes.
- To prepare Cheva rice, fire is lit and water is kept to boil in a big tao (a big vessel).
- On this vessel, the Kadhahi containing the soaked rice is kept and covered with banana leaves.
- After some time, the cheva rice is cooked and ready to eat.
- People eat and dance together and enjoy the festivities.

★ Additional Information

Festival	State
Lohri	Punjab
Pongal	Tamil Nadu
Makaravilakku	Kerala

Your Personal Exams Guide

86. Answer: a

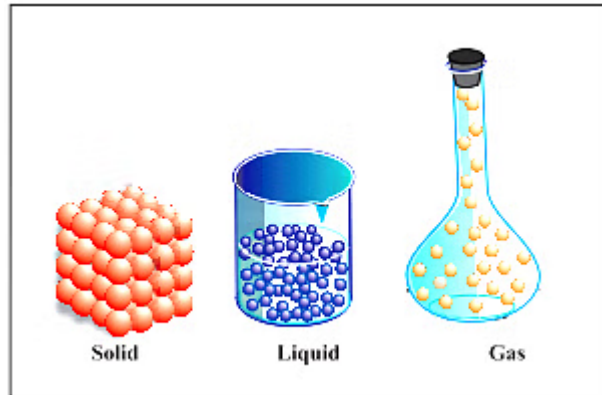
Explanation:

The correct answer is Bose-Einstein condensate.

★ Key Points

- Matters are generally categorized into 3 states:
 - Solid: Particles are held very close to each other and can't move.
 - Liquid: Particles are close to each other but they can move around.
 - Gas: Particles are far from each other as compared to those present in solid or liquid states and their movement is easy and fast.

- Two more states are discovered under extreme circumstances:
 - Plasma: A superheated matter, so hot that the electrons are ripped away from the atoms forming an ionized gas.
 - Bose-Einstein Condensate: A group of atoms cooled to absolute zero temperature (-273.15 K).



87. Answer: a

Explanation:

The correct answer is Godavari.

★ Key Points

Godavari River

- The Godavari is a major river in South India.
- This river has the largest peninsular **drainage basin** in India.
- It is also called Dakshin Ganga.
- It originated from Tryambak hill in the Western Ghats.
- It originates from the Nashik district in Maharashtra.
- Its length is usually 1465 km.
- The span of this river is very big.
- The main tributaries of Godavari are Pranahita, Indravati and Manjira.
- It flows through Maharashtra, Telangana and Andhra Pradesh.

★ Additional Information

Krishna River

- Krishna is the second largest peninsular river flowing towards the east.
- It originates near Mahabaleshwar from the Sahyadri mountain range.
- Krishna river basin lies in the states of Maharashtra, Karnataka, and Andhra Pradesh.
- The Koyana, the Ghatprabha, the Musi, and the Bhima are the major tributaries of the Krishna.
- Vijayawada is the largest city on the banks of the river Krishna.
- Almatti dam is situated on the river Krishna.

Mahanadi River

- It is the largest river in the Chhattisgarh and Odisha regions.
- Mahanadi originates from a mountain range called Sihawa located in the Dhamtari district near Raipur.
- The flow of Mahanadi is from south to north.
- The Mahanadi covers a distance of about 855 km from Sihawa till it drains into the Bay of Bengal.
- The main tributaries of Mahanadi are Parri, Sondhur, Shivrath, Hasdeo, Arpa, Leech, Tel etc.
- The major dams built on it are Rudri, Gangrel and Hirakud.
- This river also determines the boundaries of eastern Madhya Pradesh and Orissa.

Narmada River

- Is the longest river in Madhya Pradesh, followed by the Tapi.
- The Source of the Narmada is Narmada Kund which is located at Amarkantak in Anuppur District, Madhya Pradesh.
- The Narmada is also known as the Rewa.
- People from Madhya Pradesh depend fully on the Narmada River, they consider Narmada as the Life Line of Madhya Pradesh.
- It is one of the major rivers in India that run from east to west along with the Tapi and the Mahi.
- It flows through the states of Madhya Pradesh (1,077 km), Maharashtra (74 km), and in Gujarat (161 km).

88. Answer: b

Explanation:

The correct answer is Seasonal unemployment.

★ Key Points

- Seasonal unemployment is when people are not able to find jobs during some months of the year.
- People working in agriculture usually face the problem of seasonal unemployment.
- While some months are busy when sowing, harvesting, and threshing is done, in other months there is no work or the work is not enough.
- In rural areas, seasonal unemployment and disguised unemployment are prevalent.

★ Additional Information

- Unemployment: Unemployment refers to the situation in which a person who is actively searching for the employment is unable to find work.
- There are four types of unemployment: **Frictional Unemployment, Structural Unemployment, Seasonal Unemployment, and Disguised unemployment.**

Type of Unemployment	Description
Structural	A mismatch between the skills workers have and the skills needed
Frictional	When workers leave their old jobs but haven't yet found new ones.
Seasonal	Resulting from regular changes in the season.
Disguised	More workers employed than needed

89. Answer: b

Explanation:

The correct answer is 1498.

★ Key Points

- Vasco da Gama was a Portuguese explorer and the first European to reach India by sea.
- His initial voyage to India by way of the Cape of Good Hope (1497–1499) was the first to link Europe and Asia by an ocean route, connecting the Atlantic and the Indian oceans.
- On May 17, 1498, Vasco da Gama discovered a new sea route between India and Europe by reaching the port of Calicut on the west coast of India.
- On this journey, Vasco da Gama was supported by Gujarati traveler Abdul Manind.

- At that time Zamorin was the king of Calicut.
- From the earlier part of the 15th century, Portuguese expeditions organized by Prince Henry the Navigator had been reaching down the African coastline, principally in search of west African riches (notably, gold and slaves).

★ Additional Information

Company	Established Year
Portuguese East India Company	1498
English East India Company	1600
Dutch East India Company	1602
Danish East India Company	1616
French East India Company	1664
Swedish East India Company	1731

90. Answer: b

Explanation:

The correct answer is Badruddin Tyabji.

★ Key Points

- During the British Raj, Badruddin Tyabji (10 October 1844 – 19 August 1906) was an Indian lawyer, activist, and politician.
- The first Indian to work as a barrister in the High Court of Bombay was Tyabji.
- In 1887, he held the position of Indian National Congress' third president.
- He served as the first Muslim president of the Indian National Congress and was one of its founding members.
- In 1874, he established the Anjuman-i-Islam College in Bombay.
- Tyabji also campaigned to undermine the zenana system and for the freedom of women.

★ Additional Information

- Gopal Krishna Gokhale (9 May 1866 – 19 February 1915):
 - He was a social reformer and "moderate" political figure in India during the struggle for independence.
 - Gokhale was the founder of the Servants of India Society.
 - He was a prominent member of the Indian National Congress.
- Dadabhai Naoroji (4 September 1825 – 30 June 1917):
 - He was an author, businessman, scholar, and political figure in India.
 - He presided over the Indian National Congress from 1886 to 1887, 1893 to 1894, and 1906 to 1907 as its second, ninth, and 22nd president.
- Surendranath Banerjee (10 November 1848 – 6 August 1925):
 - He led the Indian nationalist movement under British rule.
 - He established the Indian National Association, a nationalist group.
 - He was one of the Indian National Congress' founding members.
- Womesh Chandra Bonerjee (29 December 1844–21 July 1906)
 - Womesh Chandra Bonerjee was born on 29 December 1844 in **Calcutta**.
 - In **1883** he defended **Surendranath Banerjee** in the famous Contempt of Court Case against him in the **Calcutta High Court**.
 - He presided over the **first** session of the Indian National Congress held at **Bombay** in **1885**.

Your Personal Exams Guide

91. Answer: b

Explanation:

The correct answer is Patna Pirates.

★ Key Points

- Dabang Delhi KC clinched the Pro Kabaddi League Season 8 trophy by eking out a close 37-36 win over Patna Pirates in the summit clash on 25 February 2022.
- Delhi's star raider Naveen Kumar (13 points) and all-rounder Vijay (14 points) secured Super 10s as they overcame a tough challenge from three-

time champions Patna Pirates.

- Patna had an uncharacteristically poor night in the defence with the likes of Mohammadreza Shadloui and Sunil committing far too many errors.
 - The Pirates, however, had a chance to level the scores in the final move of the match, but Naveen evaded the defenders to cross the balkline and win Delhi their first PKL trophy.

Pro Kabaddi League

★ Additional Information

- Pro Kabaddi League (also known as Vivo Pro Kabaddi for sponsorship reasons) or abbreviated to PKL is an Indian men's professional Kabaddi league.
- It was launched in 2014 and is broadcast on Star Sports.
- However, Season 8 was postponed due to the COVID-19 pandemic and the season commenced on 22 December 2021.
- The league's inception was influenced by the popularity of the Kabaddi tournament at the 2006 Asian Games.
- The format of the competition was influenced by the Indian Premier League.

92. Answer: a

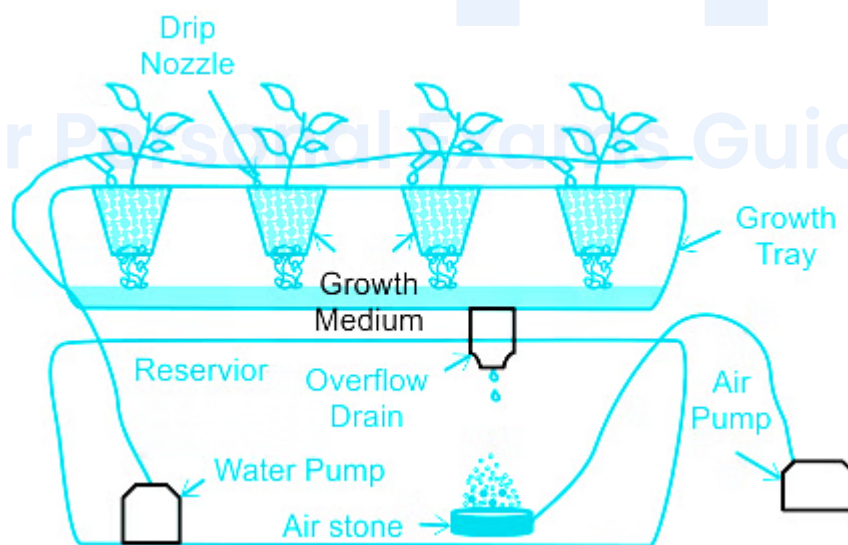
Explanation:

The correct answer is hydroponics.

★ Key Points

- Hydroponics:
 - It is also known as soil-less culture or water culture.
 - In 1860, Julius Von Sachs a prominent German botanist first demonstrated this process.
 - The hydroponics method is used to increase the yield of ornamental flowers, such as snapdragons, roses, etc., and vegetables, such as carrots, radishes, potatoes, tomatoes, lettuce, etc.

- Julius Von Sachs demonstrated that plants can grow without soil if plants are provided with a nutrient-rich solution and fulfil their required oxygen demand.
- Hydroponics is an innovative method of farming and is widely used for yielding food crops.
- This technique is used to know which mineral elements are essential for the growth and development of plants.
- The advantages of the hydroponics technique are the following-
 - The yield of production is high as plants grow faster.
 - Plants can grow anywhere, rooftops, greenhouses, etc.
 - Used nutrient solutions and water can be reused or recycled.
 - Organic food can be cultivated without using fertilizers or pesticides.
 - It is a pollution-free agricultural method.
- Some disadvantages of this method are in the following-
 - Need a high amount of investment.
 - Requires various technical knowledge.
- A hydroponic setup requires some components, such as a reservoir, one grow tray, a growing medium, and a nutrient solution.
 - Plants grow faster as compared to that in soil.



93. Answer: a

Explanation:

The correct answer is **Article 23**.

★ **Key Points**

- Articles 23–24 of the Indian Constitution cover the **fundamental right against exploitation**.
- Article 23 prohibits human beings and other similar forms of forced labour.
 - Nothing in article 23 shall prevent the State from imposing compulsory service for a public purpose, and in imposing such service the State shall not make any discrimination on grounds only of religion, race, caste or class or any of them.
- Article 24 prohibits the employment of children below the age of 14 years in any factory, mine, or other hazardous activities.

★ **Additional Information**

- Article 14 says that all persons are equal before the law and entitled to equal protection of the law.
- Article 18 abolishes titles except military and academic.
- Article 19 guarantees six fundamental freedoms to all citizens.
- Article 21 provides the protection of life and personal liberty.
- Article 22 provides protection against arbitrary arrest and detention.
- Article 25 provides freedom to practice and propagate any religion
- Article 29 provides the protection of the interests of minorities.
- Article 30 provides the right of minorities to establish and administer educational institutes.

94. **Answer: c**

Explanation:

The correct answer is **Prayer hall**.

★ **Key Points**

- Buddhist Architecture is primarily represented by three prominent building types:
 - The Chaitya Hall (Place Of Worship or Prayer hall)
 - The Vihara (Monastery)
 - The Stupa (Hemispherical Mound For Worship/Memory)
- Chaitya is a place of worship, while Vihara is the dwelling place of the monks.
- Both early Chaityas and Viharas were made from woods and later stone-cut Chaityas and Viharas were made.
- Chaitya was a rectangular prayer hall with a stupa placed in the centre, the purpose was prayer.
- The Chaitya was divided into three parts and had an apsidal ending, that is, a semicircular rear end.
- The central part of the hall (also called the nave) was separated from the two aisles by two rows of pillars.
- The chaityas also had polished interior walls, semicircular roofs and horse-shoe-shaped windows called the Chaitya windows.
- Viharas were the residences of the monks.
- Distinctive Buddhist architectural structures and sculptures like Stupas, Pagodas, caves, and monasteries
- Being the spiritual symbols of Buddhism, these structures are monastic or holy places
- They also serve as a sacred land that has the power to purify one's soul.

95. Answer: b

Explanation:

The correct answer is 2.1 - 2.9.

★ Key Points

- Total fertility rate (TFR) in simple terms refers to total number of children born or likely to be born to a woman in her life time if she were subject to the prevailing rate of age-specific fertility in the population.

- As per Census 2011, the Total Fertility Rate (an approximate range) in India is **2.1 - 2.9**.
- TFR of about 2.1 children per woman is called Replacement-level fertility (UN, Population Division).
- The Total Fertility Rate at National level has declined from 2.5 to 2.2 during 2001-11.
- This value represents the average number of children a woman would need to have to reproduce herself by bearing a daughter who survives to childbearing age.
- If replacement level fertility is sustained over a sufficiently long period, each generation will exactly replace itself without any need for the country to balance the population by international migration.

96. Answer: b

Explanation:

The correct answer is Anoushka Shankar.

★ Key Points

- Anoushka Shankar
 - Anoushka Shankar is a British-Indian-American sitar player.
 - She was the youngest and first woman to receive a British House of Commons Shield.
 - She has had 7 Grammy Awards nominations and was the first Indian musician to perform live and to serve as a presenter at the ceremony.
 - She performs across multiple genres and styles - classical and contemporary, acoustic and electronic.

★ Additional Information

<ul style="list-style-type: none"> • Pandit Shivkumar Sharma • Rahul Sharma • Tarun Bhattacharya • Abhay Sopori. 	Santoor Player
<ul style="list-style-type: none"> • Ustad Zakir Hussain • Alla Rakha • Ustad Tafu Khan. 	Tabla Player
<ul style="list-style-type: none"> • Amjad Ali Khan Bangash • Ali Akbar Khan • Allauddin Khan. 	Sarod Player
<ul style="list-style-type: none"> • Hariprasad Chaurasia • Paras Nath. 	Flute Player
<ul style="list-style-type: none"> • Asad Ali Khan • Zia Mohiuddin Dagar • Ayyagari Syamasundaram 	Veena Player
<ul style="list-style-type: none"> • Pt Ravi Shankar • Shahid Parvez Khan • Budhaditya Mukherjee • Anushka Shankar. 	Sitar Player

97. Answer: d

Explanation:

The correct answer is five years.

★ Key Points

- President:
 - The President of India is elected by indirect election, As far as practicable, there shall be uniformity of representation of the different States at the election, according to the population and the total number of elected members of the Legislative Assembly of each State, and parity shall also be maintained between the States as a whole and the Union [Art. 55].
 - This second condition seeks to ensure that the votes of the States, in the aggregate, in the electoral college for the election of the President, shall be equal to that of the people of the country as a whole.
 - In this way, the President shall be a representative of the nation as well as a representative of the people in the different States.
 - It also gives recognition to the status of the States in the federal system.
 - The system of indirect election was criticized by some as falling short of the democratic ideal underlying universal franchise, but the indirect election was supported by the framers of the Constitution, on the following grounds.
 - Article 53 of the Constitution of India mentions that the executive power of the Union shall be vested in the President.
 - The President shall hold office for a term of five years from the date on which he enters his office.
 - Article 61 of the Constitution of India mentions the procedure for the impeachment of the President.

98. Answer: b

Explanation:

The correct answer is Kerala.

★ Key Points

- Mohiniyattam:
 - Mohiniyattam (Mohiniattam) is a classical dance form of Kerala in South India.
 - The origin and popularity of this dance form are closely tagged to the great Tamil dance master Vadivelu, one of the Thanjavur quartets.
 - Mohiniyattam is a graceful dance to watch and is a solo recital by women.
 - The term Mohiniyattam comes from the words Mohini meaning a woman who enchants onlookers and aattam meaning graceful and sensuous body movements.

★ Additional Information

- The Sangeet Natak Akademi recognizes 8 classical dances in India.
- 8 Classical Dances of India and States:

Dance	State
Bharatanatyam	Tamil Nadu
Kathak	Uttar Pradesh
Kathakali	Kerala.
Kuchipudi	Andhra Pradesh.
Odissi	Odisha
Sattriya	Assam
Manipuri	Manipur
Mohiniyattam	Kerala

★ Important Points

- The Cultural Ministry of India has included Chhau in the list of classical dances making a total of 9 classical dance forms.

INDIAN CLASSICAL DANCE-I



SATTRIYA

Assam

YAKSHAGANA

Karnataka

BHARATANATYAM

Tamil Nadu

KATHAKALI

Kerala

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INDIAN CLASSICAL DANCE-II



MOHINIYATTAM

Kerala

KATHAK

Northern &
Western India

ODISSI

Odisha

BHAGAVATA MELA

Tamil Nadu

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INDIAN CLASSICAL DANCE-III



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99. Answer: a

Explanation:

- The correct answer is Rajaraja I.

★ Key Points

- Brihadeshwara Temple:
- Brihadeshwara Temple also called Rajarajeswaram is a Hindu Dravidian-styled temple located in Thanjavur, Tamil Nadu.
- It is dedicated to the God Shiva.
- It is called Dakshina Meru (Meru of the south).
- The temple was built by Chola emperor Rajaraja I between 1003 and 1010 CE.
- the temple is designated UNESCO World Heritage Site.
- it is also known as the "Great Living Chola Temples".
- It was built of granite.
- The vimana tower above the shrine is one of the tallest in South India.
- The temple has a massive collonaded prakara (corridor) and is one of the largest Shiva lingams in India. It is also famed for the quality of its sculpture.



★ Additional Information

- **The Chola Empire** of the South emerged in the 9th century AD (850-1279 AD).
- The founder of the Chola Dynasty - Vijayalaya
- Vijayalaya captured Tanjore in 850 AD.
- The greatest Chola ruler was Rajaraja (985-1014 AD) and Rajendra I (1014-1044 AD).
- Rajaraja built Brihadeshwara temple / Rajarajeshwara temple (attributed to Shiva) at Tanjore.
- Rajendra I conquered Orissa, Bengal, Burma, and Andaman and Nicobar Islands. The Chola dynasty was at its zenith during his reign.
- Rajendra I defeated the Pala king Mahipala and took the title of Gangaikondachola and built a city called Gangaikondacholapuram.
- King Rajasimha built the Kailashnath temple at Kancheepuram.

- Parantak I built Koranganatha temple at Srinivasanallur.
- Rajaraja II built the Airtaleswara temple at Darasuram.
- Kulottunga III built the Kampantheswara temple at Tribhuvan.
- The last ruler of the Chola dynasty was Rajendra III.
- Land revenue and trade tax were the main sources of income.
- The Chola empire divided into Mandalams (Province) and these were divided into Valanadu (Commissionary), Nadu (District), and Kurram (a group of villages)

100. Answer: c

Explanation:

The correct answer is Odisha.

★ Key Points

- In a bid to promote and facilitate investment across the State, the Odisha government has announced the setting up of District Investment Promotion Agencies (DIPAs) in 30 districts.
- DIPA shall operate under the leadership of the respective District Collector with other **senior district officials including SPs, DFOs and line Department officials being constituent members.**
- The District Collector shall be supported by a team of professionals for investment facilitation, project monitoring and promoting local entrepreneurship.
- The DIPAs will work as an extended arm of the Industrial Promotion and **Investment Corporation of Odisha (IPICOL)** and will be set up in phases from **April 2021 to December 2021.**
- The performance of DIPAs will be monitored by State Level Single Window Clearance Authority and will also be evaluated through annual rankings of districts based on investor feedback.