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	BPSC	UPTET
IBPS RRB	IBPS CLERK	IES	UPSC CAPF
SSC Stenogr..	RRB NTPC	SSC GD	RBI GRADE B
RBI Assistant	DSSSB		

SSC GD Constable 2021 (English) Prev. Year Paper (13-Dec-2021) (Shift 1)

**Total Time:** 1 Hour : 30 Minute   **Total Marks:** 100

Instructions

SI No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence and Reasoning	25	25	0.25	1
2	General Knowledge and General Awareness	25	25	0.25	1
3	Elementary Mathematics	25	25	0.25	1
4	English	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 and Reasoning

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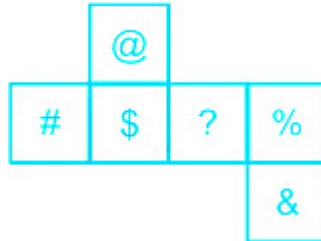

    a.

    b.

    c.

    d.

---
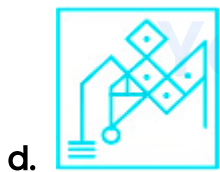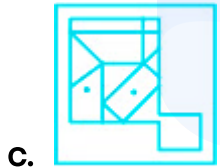
2. 'Accept' is related to 'Decline' in the same way as 'Captivity' is related to '_____'.   (+1, -0.25)

    a. Crime

    b. Jailor

    c. Police

   d. Freedom

---

3. A cube is made by folding the given sheet. In the cube so formed, which of   (+1, -0.25)
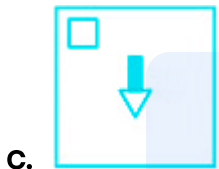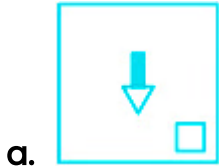   the following pairs of symbols will be on opposite sides?

   a. $ and &

   b. $ and %

   c. ? and &

   d. @ and ?

---

4. If my sister's mother-in-law's only son is Devika's father, how is Devika's   (+1, -0.25)
    paternal grandfather related to my sister?

   a. Brother-in-law

   b. Father-in-law

   c. Father

   d. Paternal uncle

---

5. Select the figure that will replace the question mark (?) in the following   (+1, -0.25)
    figure series.

a.

b.

c.

d.

---

6. Six girls (A, B, C, D, E and F) are sitting around a circular table. All of them   (+1, –0.25)
   are facing towards the centre of the circle. Not E, but someone else from
   the group is sitting between B and D. A is sitting to the left of F. C is fourth to
   the right of A. Who is sitting second to the left of A?

   a. C

   b. D

   c. F

   d. B

---

7. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series. **(+1, −0.25)**

Z _ T _ V _ X T D _ Z _ _ D V

a. X D Z V X T

b. X D Z V D T

c. Z D Z V X T

d. X D X V X T

---

8. In a certain code language, 'how are you' is written as 'au bk ch', 'we are playing' is written as 'ma ch ba', and 'we know him' is written as 'ba me uk'. How will 'playing' be written in that language? **(+1, −0.25)**

a. ma

b. ba

c. ch

d. au

---

9. Select the option that is related to the third term in the same way as the second term is related to the first term. **(+1, −0.25)**

PRICES : SQDJTF :: QUALMS : ?

a. VRMCNT

b. URBMTN

c. VRMBTN

d. TVMBTN

---

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

(+1, -0.25)

5, 35, 7, 63, 9, ?, 11

a. 90

b. 85

c. 87

d. 99

---

11. 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:

All students are teachers.

All teachers are professors.

Conclusions:

1. All students are professors.

2. All professors are students.
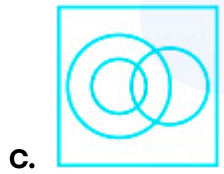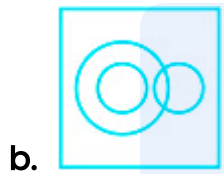
3. No teacher is a professor.

a. Only conclusion 1 follows

b. Only conclusion 2 follows

c. Both conclusions 1 and 3 follow

d. Only conclusion 3 follows

---

12. Select the Venn diagram that best represents the relationship between the following classes. **(+1, -0.25)**

Singers, Males, Brothers

a.

b.

c.

d.

---

13. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different. **(+1, -0.25)**

a. YGSQ

b. GTDME

---

c. LBJZ

d. MHXT

---

14. Study the given pattern carefully and select the number that can replace the question mark (?) in it. (+1, -0.25)

11	33	?
27	101	4
60	200	160

a. 45

b. 52

c. 57

d. 51

---

15. In a certain code language, 'FOX' is coded as '6' and 'LION' is coded as '8'. How will 'TIGER' be coded in that language? (+1, -0.25)

a. 8

b. 10

c. 6

d. 12

---

16. 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 (+1, -0.25)

this paper look when unfolded?

a.

b.

c.

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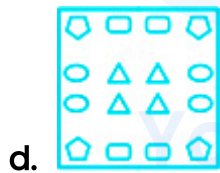
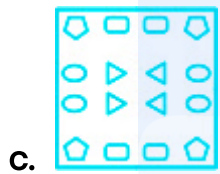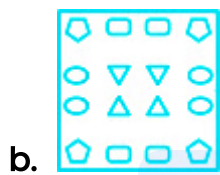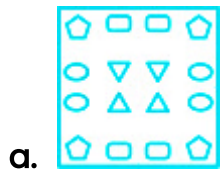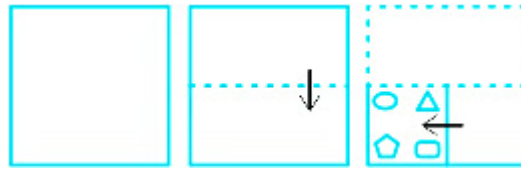**17.** Select the number from among the given options that can replace the question mark (?) in the following series.   (+1, -0.25)

24, 31, 39, 48, 58, 69, ?

a. 86

b. 81

c. 96

d. 76

---

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

(+1, -0.25)

YC, VI, SO, PU, MA, JG, ?

a. GT

b. GM

c. SN

d. HN

---

19. Select the option that is related to the third number in the same way as the second number is related to the first number.

(+1, -0.25)

93 : 36 :: 83 : ?

a. 75

b. 85

c. 45

d. 25

---

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

(+1, -0.25)

a.

b.

c.

d.

---
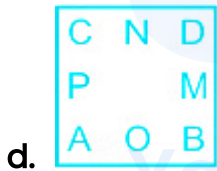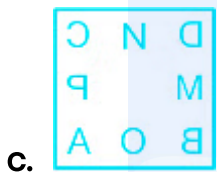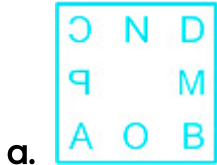
21. In a certain code language, NEWSPAPER is written as ODXTQZQDS and SORT is written as TNSU. How will CHOCOLATE be written in that language? (+1, -0.25)

a. DINDNKZVD

b. CGNDNMZUC

c. DINDNMZUD

d. DINDNOZUC

---

22. If '×' means '−', '÷' means '+', and '+' means '×', then find the value of the following expression. **(+1, −0.25)**

240 × 20 ÷ 5 + 30

a. 790

b. 990

c. 499

d. 370

---

23. Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary. **(+1, −0.25)**

1. Clarity

2. Claimant

3. Classy

4. Clear

5. Cloning

a. 2, 1, 4, 3, 5

b. 2, 1, 3, 5, 4

c. 2, 1, 3, 4, 5

d. 1, 2, 3, 4, 5

---

24. When a number is subtracted from the square of 25, it becomes 124 times of the number. Find the number. **(+1, −0.25)**

a. 25

b. 15

c. 5

d. 10

---

25. Seven friends, P, Q, R, S, T, U and V, are sitting in the same line in a class. All are facing the teacher. R is between U and Q. P is between T and V. Q is third to the left of S. T and S are sitting at the corners. Who is sitting third to the right of T? (+1, -0.25)

a. Q

b. R

c. P

d. V

General Knowledge and General Awareness

26. The International Kite Festival in Gujarat is held in the month of _____.   (+1, -0.25)

    a. November

    b. June

    c. March

    d. January

27. GDP is the standard measure of the value added created through the   (+1, -0.25)
    production of goods and services in a country _____.

    a. during times of emergency

    b. every five years

    c. every alternate year

    d. every one year

28. The Motor Vehicles Act, 1988 states that 'subject to the provisions of   (+1, -0.25)
    Section 18, no person under the age of _____ years shall drive a
    transport vehicle in any public place'.

    a. 18

    b. 20

    c. 21

    d. 16

29. India Post Payments bank has tied up with PNB Met Life India Insurance in November, 2020 to extend which of the following schemes?   (+1, −0.25)

   a. Pradhan Mantri Jan Dhan Yojana

   b. Pradhan Mantri Jeevan Jyoti Bima Yojana

   c. Pradhan Mantri Suraksha Bima Yojana

   d. Pradhan Mantri Mudra Yojana

30. Which of the following railway stations had NOT received a 5-star 'Eat Right Station' certification by the Food Safety and Standards Authority of India (FSSAI) as of 31 August 2021?   (+1, −0.25)

   a. Anand Vihar Terminal Railway Station, Delhi

   b. Chhatrapati Shivaji Terminus, Mumbai

   c. Vadodara Railway Station

   d. Ahmedabad Railway Station

31. Who was the title sponsor of the Women's T-20 Challenge which was held in Sharjah from 4-9 November 2020?   (+1, −0.25)

   a. Airtel

   b. Vodafone

   c. Jio

   d. Idea

32. Which of the following was a tax levied on pilgrims in the Mauryan Empire?   (+1, -0.25)

    a. Yatravetana

    b. Padika

    c. Vasantika

    d. Bhadra

33. Soumitra Chatterjee, who passed away in November 2020, was associated with which of the following fields?   (+1, -0.25)

    a. Archaeology

    b. Acting

    c. Sports

    d. Politics

34. Which of the following states has the highest number of Assembly Constituencies?   (+1, -0.25)

    a. Uttar Pradesh

    b. Tamil Nadu

    c. Gujarat

    d. Maharashtra

35. _____ offered a scathing criticism of the economic impact of British rule in India through his book 'Poverty and Un-British Rule in India'.   **(+1, −0.25)**

    a. Surendranath Banerjee

    b. Dadabhai Naoroji

    c. Badruddin Tyabji

    d. Pherozeshah Mehta

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36. Which of the following gases do plants need for photosynthesis?   **(+1, −0.25)**

    a. Oxygen

    b. Nitrogen

    c. Carbon dioxide

    d. Argon

---

37. A channel of a canal, where water is carried by force uplift in the opposite direction of the slope of the land, is called _____.   **(+1, −0.25)**

    a. drainage

    b. command area

    c. lift Channel

    d. aquifer

---

38. Chlorination is done by adding chlorine tablets or _____ to the water.   **(+1, −0.25)**

    a. bleaching powder

    b. baking soda

    c. common salt

    d. turmeric powder

---

39. Who was appointed as the Secretary of BCCI (Board of Control for Cricket in India) in October 2019?　　(+1, -0.25)

    a. Jay Shah

    b. Sourav Ganguly

    c. Anirudh Tripathi

    d. Luv Aggarwal

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40. Which of the following automobile companies announced its decision to stop manufacturing vehicles for sale in India in September 2021?　　(+1, -0.25)

    a. Chevrolet

    b. Honda Motor Company Ltd.

    c. Ford Motor Company

    d. Toyota Motor Corporation

---

41. Which range is known as the 'backbone of high Asia'?　　(+1, -0.25)

    a. The Kailash Range

b. The Zaskar Range

c. The Karakoram Range

d. Ladakh Range

---

42. In 1961, the US Federal Reserve introduced a monetary policy initiative named _ _ _ _ _ _ _ _ _ designed to lower long-term rates to stimulate the US economy. This initiative was adopted by the Reserve Bank of India from December 2019.   (+1, −0.25)

    a. Operation Twist

    b. Operation Bloom

    c. Operation Churn

    d. Operation Hub

---

43. Which of the following cities/towns hosted the 80 [th] All India Presiding Officers' Conference in November 2020?   (+1, −0.25)

    a. Haldia

    b. Kevadia

    c. Bavla

    d. Jharia

---

44. Which of the following is a conventional source of energy?   (+1, −0.25)

    a. Solar

b. Geothermal

c. Coal

d. Tidal

---

45. With which of the following states is the 'Mando' festival associated?   (+1, −0.25)

a. Telangana

b. Haryana

c. Goa

d. Andhra Pradesh

---

46. The SI unit of the power of a lens is denoted by the letter _____.   (+1, −0.25)

a. S

b. A

c. D

d. M

---

47. Babur defeated the Sultan of Delhi and captured Delhi and Agra in the year _____.   (+1, −0.25)

a. 1526

b. 1528

c. 1522

d. 1524

---

48. Who among the following freedom fighters was accused of killing General Dyer?   (+1, -0.25)

   a. Bhagat Singh

   b. Aurobindo Ghosh

   c. Udham Singh

   d. Surya Sen

---

49. Who among the following was conferred with the 'Capital Foundation National Award' for his contribution to sports in November 2020?   (+1, -0.25)

   a. Rajiv Jalota

   b. Narinder Batra

   c. AK Gupta

   d. Gyanendro Ningombam

---

50. _____ was crowned Miss Teen International 2019.   (+1, -0.25)

   a. Thu Phan

   b. Yessenia Garcia

   c. Aayushi Dholakia

   d. Anicia Gaothusi

Elementary Mathematics

51. On a racing track, A and B are standing at a distance of 200 m. A walked towards B at a speed of 8 km/h, whereas B walked in the same direction at a speed of 5 km/h. What was the distance between them 1 minute before they met? **(+1, −0.25)**

   a. 65 m

   b. 55 m

   c. 150 m

   d. 50 m

---

52. The value of $60 \div [50 + 7 - \{14 + (24 \text{ of } 2 \div 3) - 12 \div 4 \times 2 + 18 \div 4 \times 2\}]$ is: **(+1, −0.25)**

   a. 1

   b. $\frac{5}{2}$

   c. 2

   d. $\frac{5}{4}$

---

53. If the volume of a cone is 770 cm^3 and its height is 15 cm, then the radius of its base is: **(+1, −0.25)**

(Take $\pi = \frac{22}{7}$)

   a. 0.7 cm

   b. 14 cm

   c. 7 cm

d. 70 cm

---

54. In a mixture, the ratio of milk and water is 5 : 3. If 4 litres of water is added
to the mixture, the ratio becomes 3 : 2. Find the quantity of milk in the
mixture. **(+1, -0.25)**

  a. 42 litres

  b. 25 litres

  c. 60 litres

  d. 30 litres

---

55. Two students A and B appeared in an examination. A secured 9 marks
more than B and his marks were 60% of the sum of their marks. The
marks obtained by A were: **(+1, -0.25)**

  a. 19

  b. 36

  c. 27

  d. 18

---

56. The difference between the compound interest and simple interest on a
certain sum at 20% per annum for 2 years is Rs. 9,000. Find the sum. **(+1, -0.25)**

  a. Rs. 2,15,000

  b. Rs. 2,25,000

  c. Rs. 2,60,000

d. Rs. 2,50,000

---

57. If a : b = 4 : 9 and b : c = 3 : 7, then find a : b : c. (+1, −0.25)

a. 4 : 6 : 19

b. 2 : 9 : 4

c. 4 : 9 : 21

d. 3 : 5 : 8

---

58. A sum of Rs. 12,000 amounts to Rs. 12,960 at 2% per annum simple (+1, −0.25)
interest. Find the duration of the deposit.

a. 5 years

b. 2 years

c. 3 years

d. 4 years

---

59. Simplify the following expression. (+1, −0.25)

$\frac{2}{5} - \left[1\frac{1}{3} + \left(1\frac{1}{4} - 2\frac{1}{3} \right) \right] \div 2\frac{2}{3} \times \frac{3}{5} + \frac{2}{5}$

a. $-\frac{133}{160}$

b. $\frac{37}{96}$

c. $\frac{119}{160}$

d. $\frac{1}{40}$

60. The fourth proportional to 5, 8, 25 is: (+1, −0.25)

   a. 60

   b. 30

   c. 20

   d. 40

61. A train leaves a station at 4:50 p.m. and reaches the next station 45 km   (+1, −0.25)
away at 5:44 p.m. If the train runs at a uniform speed, what is the speed
(in km/h) of the train?

   a. 45

   b. 50

   c. 72

   d. 48

62. 75 workers could complete only one-third of a work in 20 days. It is   (+1, −0.25)
desired that the work be finished in the next 30 days. How many more
workers should be taken to complete the work in the desired time?

   a. 100

   b. 300

   c. 25

   d. 225

63. The average weight of 14 boys in a class is 40.25 kg and that of the remaining 10 boys is 35.15 kg. Find the average weight of all the boys in the class. (+1, −0.25)

   a. 35.65 kg

   b. 41.725 kg

   c. 42.50 kg

   d. 38.125 kg

64. A shopkeeper sold a book at a loss of 14%. If the selling price had been increased by Rs. 100, there would have been a gain of 6%. What was the cost price of the book? (+1, −0.25)

   a. Rs. 450

   b. Rs. 430

   c. Rs. 380

   d. Rs. 500

65. Arya borrowed some money at the rate of 5% per annum for the first 3 years, at the rate of 8% per annum for the next 4 years, and at the rate of 16% per annum for the period beyond seven years. If he pays a total interest of Rs. 15,730 at the end of 13 years, then how much money did he borrow? (+1, −0.25)

   a. Rs. 11,800

   b. Rs. 12,250

c. Rs. 10,500

d. Rs. 11,000

---

66. Find the cost of carpeting a room 14 m long and 8 m broad with a carpet 50 cm wide at the rate of Rs. 9.40 per m ^{2}. **(+1, −0.25)**

    a. Rs. 1,998.50

    b. Rs. 2, 535

    c. Rs. 2, 200

    d. Rs. 2,105.60

---

67. The average run rate of a cricketer in 48 innings is 33. His highest score exceeds his lowest score by 144 runs. If these two innings are excluded, the average run rate of the remaining 46 innings is 30 . What is the highest score of the player? **(+1, −0.25)**

    a. 173

    b. 178

    c. 174

    d. 169

---

68. Find the least number of five digits which is exactly divisible by 14, 30 and 42. **(+1, −0.25)**

    a. 10220

    b. 10040

c. 10100

d. 10080

---

69. Kalyan bought an article for Rs. 6,400 and spent Rs. 600 on its repairs. He marked his article at 8% above the overall cost price. If he sold the article for Rs. 6,426 after giving x% discount, then the value of x is: **(+1, −0.25)**

a. 10

b. 12

c. 16

d. 15

---

70. A and B together can do a certain work in 36 days, whereas B and C together can do it 40 days. A, B and C together can do it in 30 days. B alone can do $\frac{7}{8}$ part of the original work in: **(+1, −0.25)**

a. 48 days

b. 42 days

c. 40 days

d. 45 days

---

71. Which of the following is an integer that is NOT a multiple of 7, 5 and 28? **(+1, −0.25)**

a. 280

b. 420

---

c. 140

d. 70

---

72. If 280% of 160 - 25% of 720 = y% of 200, then what is the value of y?   (+1, -0.25)

   a. 130

   b. 136

   c. 124

   d. 134

---

73. By selling an article for Rs. 1,024, there is a loss of 20%. At what price (in Rs.) should it be sold to gain 8%?   (+1, -0.25)

   a. 1,280

   b. 1,382.40

   c. 1,408

   d. 1,390.60

---

74. A salesman sells an item at a profit of 21%. If he had bought it at 12% less and sold it for Rs. 66 less, he would have gained 30%. Find the cost price of the item.   (+1, -0.25)

   a. Rs. 1,000

   b. Rs. 2,200

   c. Rs. 1,050

d. Rs. 4,005

---

75. What is the discount percentage given on a pair of trousers whose selling   (+1, -0.25)
price is Rs. 2,184 after giving a discount of Rs. 416 on its marked price?

a. 18

b. 16

c. 19.7

d. 19

English

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

    Emerge

    a. Lose

    b. Surface

    c. Appear

    d. Vanish

---

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

    a. Imitation

    b. Facinating

    c. Effective

    d. Arrogance

---

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

    There are many plants and animals that cannot _ _ _ _ _ _ in very cold or very hot places.

    a. survive

    b. tolerate

    c. preserve

d. bear

---

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

The judge had to free the young man because there was no _____ against him.

a. cause

b. excuse

c. belief

d. evidence

---

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

To have a yen for

a. To want to earn money to go to Japan

b. To have a very strong and continuous desire or craving for something

c. To have a lot of Japanese money to spend

d. To have many friends who want to teach one new things

---

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

a. Occurence

b. Adequate

---

c. Attendance

d. Necessary

---

82. Select the most appropriate SYNONYM of the given word.   (+1, -0.25)

Repel

a. Remit

b. Regret

c. Retain

d. Resist

---

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

Baffle

a. Amuse

b. Bemuse

c. Confuse

d. Choose

---

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

I prevailed / upto him / to join / our team.

a. I prevailed

b. to join

c. our team

d. upto him

---

85. Select the most appropriate meaning of the given idiom.   **(+1, −0.25)**

Go with the flow

a. Control a situation

b. Swim in deep water

c. Flatter someone in authority

d. Do what others are doing

---

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

My grandmother <u>decide to gives me </u>and my brothers some of her
favourite books.

a. decided to give me

b. decided to gave me

c. No substitution required

d. have decided to give me

---

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

The sound made by an elephant

a. Bark

b. Croak

c. Trumpet

d. Bleat

---

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

To give up a throne voluntarily

a. Abdicate

b. Vacate

c. Allocate

d. Eradicate

---

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

Though the house belonged to my father, the _ _ _ _ _ _ banyan tree was mine.

a. waterlogged

b. inclusive

c. exalted

d. magnificent

90. Select the most appropriate option that can substitute the underlined word in the given sentence. If there is no need to substitute it, select 'No substitution required'.   (+1, −0.25)

My sister enjoys reading, <u>while </u>my brother who hates it.

a. unlike

b. but

c. so as

d. No substitution required

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

A list of sources used when writing a scholarly article

a. Dictionary

b. Journal

c. Atlas

d. Bibliography

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

The lions were being fed / by there keeper / when we arrived / at the zoo.

a. at the zoo

b. by there keeper

c. when we arrived

d. The lions were being fed

---

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

Peculiar

a. Weird

b. Unique

c. Familiar

d. Strange

---

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

Nature teach us / to maintain / a balance / in life.

a. in life

b. Nature teach us

c. a balance

d. to maintain

---

95. 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)

Nature provides every creature <u>a chance to exist.</u>

a. the chance for existing

b. No improvement required

c. chance for existence

d. chances in existence

96. 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)

He invited the monkey to his house for dinner and said that his wife would like to meet him. (1) _ _ _ _ _ _ monkey was happy, but (2) _ _ _ _ _ _ swim, so the crocodile took (3) _ _ _ _ _ _ on his back. The crocodile was happy (4) _ _ _ _ _ _ he had tricked the monkey, however, while talking, he (5) _ _ _ _ _ _ out the real reason for taking the monkey home. The clever monkey said, "You should have told me earlier, I left my heart on the tree."

Select the most appropriate option to fill in blank no. 1.

a. One

b. The

c. That

d. A

97. 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)

He invited the monkey to his house for dinner and said that his wife would like to meet him. (1) _ _ _ _ _ _ monkey was happy, but (2) _ _ _ _ _ _ swim, so the crocodile took (3) _ _ _ _ _ _ on his back. The crocodile was happy (4) _ _ _ _ _ _ he had tricked the monkey, however, while talking, he (5) _ _ _ _ _ _ out the real reason for taking the monkey home. The clever monkey said, "You should have told me earlier, I left my heart on the tree."

Select the most appropriate option to fill in blank no. 2.

   a. didn't

   b. hadn't

   c. doesn't

   d. couldn't

---

98. 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)

He invited the monkey to his house for dinner and said that his wife would like to meet him. (1) _ _ _ _ _ _ monkey was happy, but (2) _ _ _ _ _ _ swim, so the crocodile took (3) _ _ _ _ _ _ on his back. The crocodile was happy (4) _ _ _ _ _ _ he had tricked the monkey, however, while talking, he (5) _ _ _ _ _ _ out the real reason for taking the monkey home. The clever monkey said, "You should have told me earlier, I left my heart on the tree."

Select the most appropriate option to fill in blank no. 3.

   a. it

   b. her

   c. him

   d. them

---

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

He invited the monkey to his house for dinner and said that his wife would
like to meet him. (1) _ _ _ _ _ _ monkey was happy, but (2) _ _ _ _ _ _ swim,
so the crocodile took (3) _ _ _ _ _ _ on his back. The crocodile was happy
(4) _ _ _ _ _ _ he had tricked the monkey, however, while talking, he (5)
_ _ _ _ _ _ out the real reason for taking the monkey home. The clever
monkey said, "You should have told me earlier, I left my heart on the tree."

Select the most appropriate option to fill in blank no. 4.

   a. before

   b. whether

   c. that

   d. while

---

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

He invited the monkey to his house for dinner and said that his wife
would like to meet him. (1) _ _ _ _ _ _ monkey was happy, but (2) _ _ _ _ _ _
swim, so the crocodile took (3) _ _ _ _ _ _ on his back. The crocodile was
happy (4) _ _ _ _ _ _ he had tricked the monkey, however, while talking,
he (5) _ _ _ _ _ _ out the real reason for taking the monkey home. The

clever monkey said, "You should have told me earlier, I left my heart on the tree."

Select the most appropriate option to fill in blank no. 5.

a. announced

b. talked

c. blurted

d. stated

Answers

1. **Answer: a**

   Explanation:

   The image embedded in given figure is as shown below:

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

   Hence, ' option 1 ' is the correct answer.

2. **Answer: d**

Explanation:

The logic followed here is:

- 'Accept' is related to 'Decline' → Accept is antonym of Decline.

Similarly,

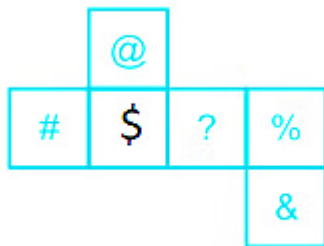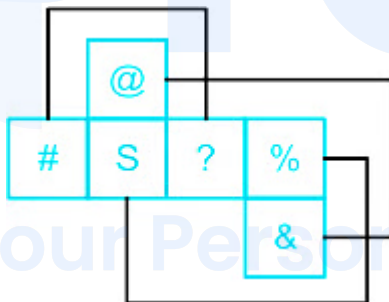- 'Captivity' is related to '_____' → Captivity is antonym of Freedom.

Hence, '**Freedom**' is the correct answer.

---

3. **Answer: b**

Explanation:

Faces opposite to each other is shown below:

#	$	@
?	%	&
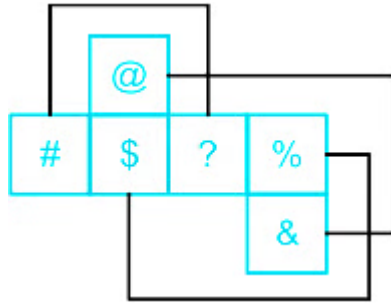
Hence, '**$ and %**' is the correct answer.

---

4. **Answer: b**

Explanation:

By using the symbols in the table given below, we can draw the following family tree:

Symbol in Diagram	Meaning
◯	Female
☐	Male
═	Married Couple
—	Siblings
		Difference of a Generation
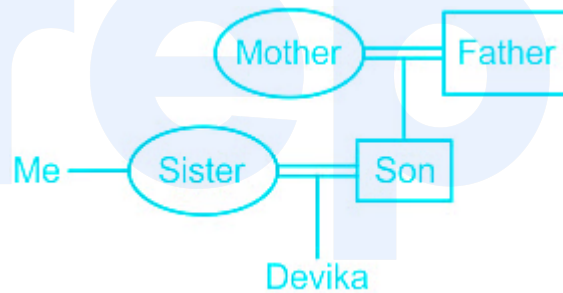
Clearly, Devika's paternal grandfather is father-in-law of my sister.

Hence, '**Father-in-law**' is the correct answer.

---

5. **Answer: a**

Explanation:

The pattern follows here is:

The square figure is shifting its position by moving in a clockwise direction.

The arrow is rotating in 90° anticlockwise direction. At odd positions, the arrowhead is colored in black and at even positions, the base of the arrow is colored in black.

Hence, ' **option 1** ' is the correct answer.

---

6. Answer: a

Explanation:

Six girls (**A, B, C, D, E and F**) are sitting around a circular table. All of them are facing towards the centre of the circle.

1. C is fourth to the right of A.

2. A is sitting to the left of F.
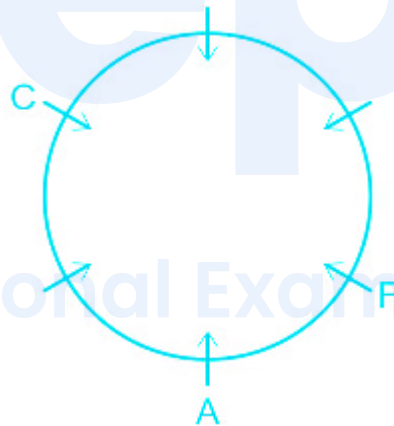
3. Not E, but someone else from the group is sitting between B and D.
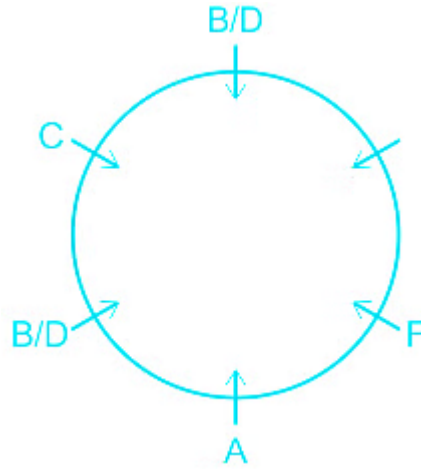
As only one position is vacant, it will be occupied by E, the the only person left.
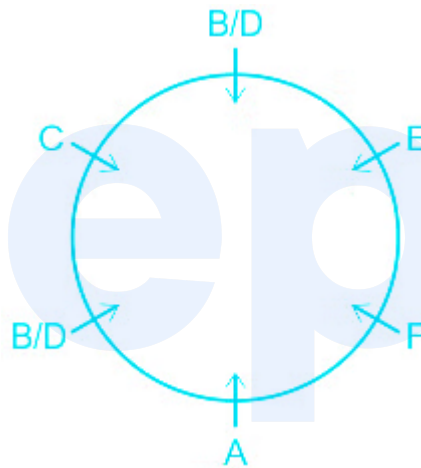
Clearly, C is sitting second to the left of A.

Hence, ' **C**' is the correct answer.

7. **Answer: a**

Explanation:

Given sequence: Z _ T _ V _ X T D _ Z _ _ D V

  1. X D Z V X T → Z **X** T **D** V – **Z** X T D **V –** Z **X T** D V
  2. X D Z V D T → Z X T D V – Z X T D V – Z **D** T D V
  3. Z D Z V X T → Z **Z** T D V – Z X T D V – Z X T D V

4. X D X V X T → Z X T D V – **X** X T D V – Z X T D V

- In option 1, ZXTDV is repeated.

Hence, '**X D Z V X T**' is the correct answer.

---

8. Answer: a

Explanation:

The code for each word is:

how are you ⟶ au bk ch

we are playing ⟶ ma ch ba

we are him ⟶ ba me uk

Clearly, playing will be written as 'ma'.

Hence, ' **ma** ' is the correct answer.

---

9. 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:
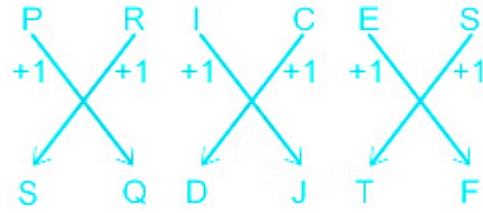
Similarly,
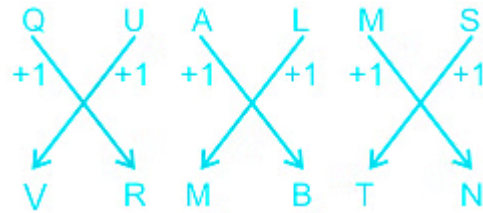
Hence, '**VRMBTN**' is the correct answer.

---

10. **Answer: d**

Explanation:

The logic followed here is:

Numbers at odd position:

5 + 2 = 7

7 + 2 = 9

9 + 2 = 11

Numbers at even position:

5 × 7 = 35

7 × 9 = 63

9 × 11 = 99

Hence, ' **99** ' is the correct answer.

---

11. Answer: a

Explanation:

The least possible Venn diagram is:

Conclusions:

1. All students are professors. → **Follow** (As, All students are teachers and All teachers are professors)

2. All professors are students. → Do not follow (As, All students are teachers and All teachers are professors → Some professors are students)

3. No teacher is a professor. → Do not follow (As, All teachers are professors)

Hence, '**Only conclusion 1 follows**' is the correct answer.

12. Answer: c

Explanation:

The Venn diagram that best represents the relationship between Singers, Males, and Brothers is shown below:
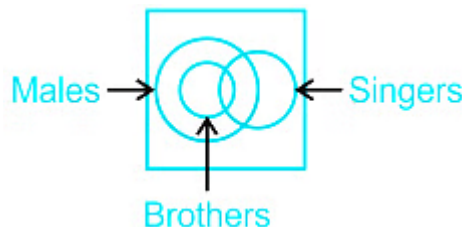
All brothers are male.

Some brothers and men are singers.

Hence, ' **option 3** ' is the correct answer.

---

13. **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:

1. YGSQ → Four letters and no vowels.
2. GTDME → Five letters with one vowel.
3. LBJZ → Four letters and no vowels.
4. MHXT → Four letters and no vowels.

Hence, 'GTDME 'is the correct answer.

---

14. **Answer: b**

Explanation:

The logic followed here is:

Logic: In a column → 1st number × 3 + 2nd number = 3rd number

Column 1: 11 × 3 + 27 = 33 + 27 = 60

Column 2: 33 × 3 + 101 = 99 + 101 = 200

Similarly,

Column 3: ? × 3 + 4 = 160

⇒ ? × 3 = 160 – 4

⇒ ? × 3 = 156

⇒ ? = 156 ÷ 3

⇒ ? = 52

Hence, ' **52** ' is the correct answer.

---

15. **Answer: b**

Explanation:

The logic followed here is:

Logic: Number of letters in the word × 2 = Code of the word

'FOX' is coded as '6'

- Number of letters in FOX is 3 and 3 × 2 = 6

'LION' is coded as '8'

- Number of letters in LION is 4 and 4 × 2 = 8

Similarly,

'TIGER'

- Number of letters in TIGER is 5 and 5 × 2 = 10

Hence, ' **10** ' is the correct answer.

16. **Answer: b**

   Explanation:

   The paper when unfolded will appear as shown below:

   Hence, ' **option 2** ' is the correct answer.

17. **Answer: b**

   Explanation:

   The logic followed here is:
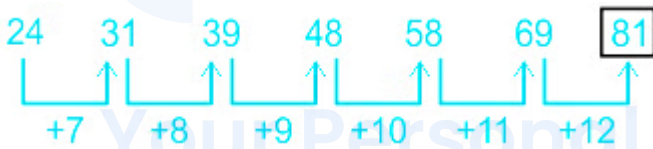
   Hence, ' **81** ' is the correct answer.

18. **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:

$$Y \xrightarrow{-3} V \xrightarrow{-3} S \xrightarrow{-3} P \xrightarrow{-3} M \xrightarrow{-3} J \xrightarrow{-3} G$$
$$C \xrightarrow{+6} I \xrightarrow{+6} O \xrightarrow{+6} U \xrightarrow{+6} A \xrightarrow{+6} G \xrightarrow{+6} M$$

Hence, ' **GM** ' is the correct answer.

---

19. Answer: d

Explanation:

The logic followed here is:

Logic: (Difference between the digits in the first number) ^{2} = Second number

$93 : 36 \rightarrow (9 - 3)^2 = 6^2 = 36$

Similarly,

$83 : ? \rightarrow (8 - 3)^2 = 5^2 = 25$

Hence, ' **25** ' is the correct answer.

---

20. Answer: b

Explanation:

The correct mirror image of the given figure when the mirror is placed at 'AB' is shown below:
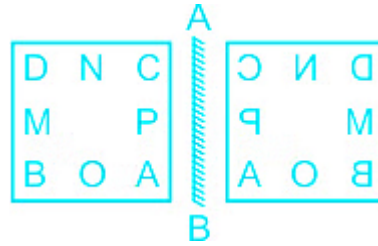
Hence, ' **option 2** ' is the correct answer.

---

21. **Answer: c**

Explanation:

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

The logic followed here is:

NEWSPAPER is written as ODXTQZQDS.
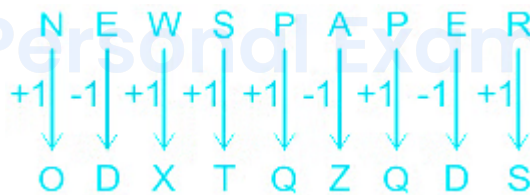
SORT is written as TNSU.

Similarly,

CHOCOLATE = ?
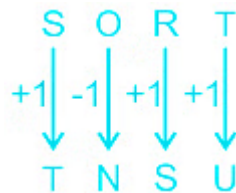
C H O C O L A T E
+1 +1 -1 +1 -1 +1 -1 +1 -1
D I N D N M Z U D
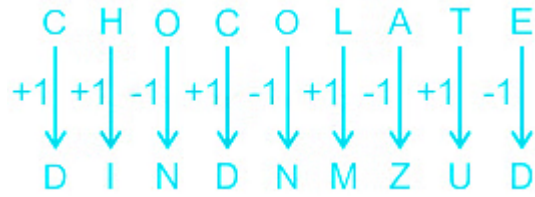
Hence, '**DINDNMZUD**' is the correct answer.

---

22. Answer: d

Explanation:

Symbol	×	÷	+
Meaning	−	+	×

Given equation: 240 × 20 ÷ 5 + 30

After replacing the symbols by their meaning, we get:

240 − 20 + 5× 30

= 240− 20+ 150

= 390 − 20

= 370

Hence, ' **370** ' is the correct answer.

---

23. Answer: c

Explanation:

The correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary is:

2. **Clai** mant

1. **Clar** ity

3. **Clas** sy

4. **Cle** ar

5. **Clo** ning

Hence, '**2, 1, 3, 4, 5**' is the correct answer.

---

24. **Answer: c**

Explanation:

Let the number be a.

According to question:

$25^2 - a = 124a$

$\Rightarrow 625 - a = 124a$

$\Rightarrow 625 = 124a + a$

$\Rightarrow 625 = 125a$

$\Rightarrow 625/125 = a$

$\Rightarrow 5 = a$

Hence, '**a**' is the correct answer.

---

25. Answer: a

Explanation:

Seven friends, **P, Q, R, S, T, U and V** , are sitting in the same line in a class. All are facing the teacher.

1. Q is third to the left of S.

2. T and S are sitting at the corners.
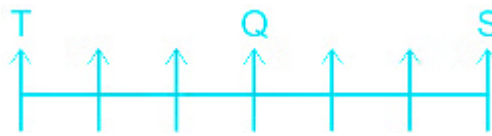
3. P is between T and V.
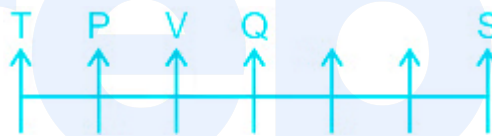
4. R is between U and Q.
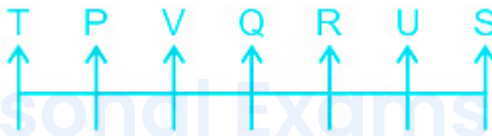
Clearly, Q is sitting third to the right of T.

Hence, ' **Q**' is the correct answer.

26. Answer: d

Explanation:

The correct answer is <u>January.</u>

⭐ <u>Key Points</u>

- The International Kite Festival in Gujarat is held in the month of <u>January.</u>
- Every year the International Kite Festival is organized in Gujarat on the occasion of Uttarayan i.e. Makar Sankranti.
- Tourists come from all over the country and abroad to take part in this kite festival.
- Apart from Ahmedabad , you can see this festival in other cities of Gujarat such as Surat, Vadodara, and Rajkot.

⭐ <u>Additional Information</u>

- The International Kite Festival started in 1989.
- On the occasion of Uttarayan , when the weather is changing, winter decreases and summer starts.
- At such a time, the main purpose of organizing a kite festival is to share happiness among the people.
- Since 1989 , the International Kite Festival is held every year in Ahmedabad.

27. **Answer: d**

Explanation:

The correct answer is <u>**every one years.**</u>

⭐ <u>Key Points</u>

- GDP is the standard measure of the value added created through the production of goods and services in a country **every one year.**
- Gross domestic product (GDP) is the standard measure of the value added created through the production of goods and services in a country during a certain period.
- As such, it also measures the income earned from that production, or the total amount spent on final goods and services (less imports).

⭐ <u>Additional Information</u>

- Gross domestic product (GDP) is the standard measure of the value-added created through the production of goods and services in a country during a certain period.
- As such, it also measures the income earned from that production or the total amount spent on final goods and services (fewer imports).
- GDP maps the economy from the expenditure (or demand) side — that is by adding up all the expenditures.
- GDP = private consumption + gross investment + government investment + government spending + (exports-imports).

---

28. **Answer: a**

Explanation:

The correct answer is 18.

⭐ **Important Points**

- The Motor Vehicles Act, 1988 states that 'subject to the provisions of Section 18, no person under the age of 18 years shall drive a transport vehicle in any public place'.
- Motor vehicles Act, of 1988 replaced the Motor Vehicles Act of 1939 .
- It came into force on 1 July 1989.
- The Act provides in detail the legislative provisions regarding
  - licensing of drivers/conductors,
  - registration of motor vehicles,
  - control of motor vehicles through permits,
  - special provisions relating to state transport undertakings,
  - traffic regulation ,
  - insurance, liability, offences and penalties, etc.
- It makes it mandatory for any driver to have a valid driving licence and no vehicle can be driven without being registered under the motor vehicle act.

---

29. **Answer: b**

Explanation:

The correct answer is <u>Pradhan Mantri Jeevan Jyoti Bima Yojana.</u>

⭐ <u>Key Points</u>

- India Post Payments bank has tied up with PNB Met Life India Insurance in November, 2020 to extendPradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY).
- The Pradhan Mantri Jeevan Jyoti Bima Yojana is a government scheme launched on 9th May 2015 by PM Narendra Modi in Kolkata.
- This is a life insurance scheme that was first introduced by Arun Jaitley , the Finance Minister of India on his 2015 Budget Sheet.
- Pradhan Mantri Jeevan Jyoti Bima Yojana is implemented by the Life Insurance Corporation of India.
- The basic premium amount for the PMJJBY scheme was INR 330 and reduces thereafter based on the month of your enrollment.

⭐ <u>Additional Information</u>

- Ministry/Department: Ministry of Finance
- Provides: Life Insurance
- Eligibility: Available to people in the age group of 18 to 50 and having a bank account.
- People who join the scheme before completing 50 years can, however, continue to have the risk of life cover up to the age of 55 years subject to payment of premium.
- Premium: Rs. 330 per annum. It will be auto-debited in one instalment. The premium could vary depending on the prevailing tax rates, age and location.
- Payment Mode: The payment of premium will be directly auto-debited by the bank from the subscriber's account.
- Risk Coverage: Rs. 2 Lakh in case of death for any reason.
- Terms of Risk Coverage: A person has to opt for the scheme every year . He can also prefer to give a long-term option of continuing, in which case his account will be auto-debited every year by the bank.

- The scheme will be offered by Life Insurance Corporation and all other life insurers who are willing to join the scheme and tie up with banks for this purpose.

---

30. Answer: d

Explanation:

The correct answer is **Ahmedabad Railway Station.**

⭐ **Key Points**

- **Ahmedabad Railway Station** received a 5-star **'Eat Right Station'** certification by the Food Safety and Standards Authority of India (FSSAI) as of 31 August 2021.
- The **Mumbai Central Terminus** of the Western Railway has been certified as India's first "Eat Right Station" with a **4-Star rating** awarded by the **FSSAI** .
- The railway stations with this certification include:
    - Anand Vihar Terminal Railway Station (Delhi).
    - Chhatrapati Shivaji Terminus (Mumbai).
    - Mumbai Central Railway Station (Mumbai).
    - Vadodara Railway Station.

⭐ **Additional Information**

- As part of efforts to help passengers make a healthy and right food choice , the Indian Railways launched the 'Eat Right Station 'Eat Right India' is built on two broad pillars Eat Healthy and Eat Safe
- The honor came on the basis of
    - Compliance with food safety and hygiene
    - Availability of healthy diet
    - Food handling at preparation
    - Trans-shipment, and retail/serving points
    - Food waste management
    - Promotion of local and seasonal foods and creating awareness on food safety and a healthy diet,

- The 'Eat Right India' initiative of the FSSAI started in 2018.

---

31. **Answer: c**

Explanation:

The correct answer is Jio.

⭐ **Key Points**

- Board of Control for Cricket in India (BCCI) has announced Reliance Jio as the title sponsor of the Women's T20 Challenge 2020 .
- This is the first time a sponsor is partnering with the BCCI exclusively for the women's counterpart to the IPL.
- The women's T20 challenge is scheduled to run from November 4-9, 2020 in Sharjah .

⭐ **Additional Information**

- Women's T20 Challenge -2022
  - Along with the 15th season of the IPL 2022 league, BCCI organized the Women's T20 Challenge in which 4 matches were played between three teams.
  - And the final match was played between Supernovas and the Velocity team, in which Supernovas won the title.
- In the Women's T20 Challenge - Three teams participated.
  - Harmanpreet Kaur was the caption of the Supernovas team.
  - Smriti Mandhana was the caption of the Trailblazer franchise.
  - Deepti Sharma was the caption of the Velocity team.

---

32. **Answer: a**

Explanation:

The correct answer is **Yatravetana.**

⭐ **Key Points**

- A tax called **yatravetana** was levied on pilgrims.
- Though revenues were collected from all possible sources, the underlying philosophy was not to exploit or over-tax people but to provide them as well as to the State and the King, immunity from external and internal danger.
- The revenues collected in this manner were spent on social services such as laying of roads, setting up of educational institutions, setting up of new villages and such other activities beneficial to the community.

⭐ **Additional Information**

- Mauryan Empire was founded by Chandragupta Maurya . He was supported by a wise man named Chanakya or Kautilya.
- There were several cities in the empire.
  - These included the capital Pataliputra, Taxila, and Ujjain.
  - Taxila was a gateway to the northwest , including Central Asia, while Ujjainlay on the route from north to south India.
  - Merchants, officials, and craftspersons probably lived in these cities.
  - In other areas, there were villages of farmers and herders.
- In some areas such as central India, there were forests where people gathered forest produce and hunted animals for food .
- Brahmi Script is the parent language of Hindi and many other north Indian languages. Ashokan inscriptions were written in Brahmi script .

---

33. **Answer: b**

Explanation:

The correct answer is **Acting**.

⭐ **Important Points**

- Soumitra Chatterjee was an actor, director, writer, singer, and poet .

- He worked in collaboration with director Satyajit Ray in 14 films.
- He has acted in more than 210 films .
- He is the first Indian film personality to be awarded France's highest award for artists .
- He was awarded Padma Bhushan in 2004 and the Dada Saheb Phalke award in 2012 .
- He also received two National Film Awards .
- IBN live gave him the title of 'the men who changed the face of Indian cinema' .
- He was born in January 1935 in West Bengal and died in November 2020 in Kolkata, West Bengal due to the complications that arose after covid-19.

---

34. **Answer: a**

Explanation:

The correct answer is <u>Uttar Pradesh.</u>

⭐ <u>Key Points</u>

- UP has the highest number of assembly constituencies (403)
- Uttar Pradesh has been allocated <u>31 Rajya Sabha seats</u>.
- Rajya Sabha has a maximum membership of 245.

⭐ <u>Additional Information</u>

- Uttar Pradesh day is celebrated on 24 January.
- On 24 January 1950, the United Provinces was renamed as Uttar Pradesh.
- It was formed on 1 April 1937 as the United Province.
- Uttar Pradesh has an area of 2,40,928 square km.
- Uttar Pradesh has a population of 19,9,812,341.

---

35. **Answer: b**

Explanation:

The correct answer is <u>**Dadabhai Naoroji.**</u>

⭐ <u>Key Points</u>

- **Dadabhai Naoroji** offered a scathing criticism of the economic impact of British rule in India through his book 'Poverty and Un-British Rule in India'.
- Dadabhai Naoroji , the "Grand Old Man of India", was the the first Indian member of the British parliament .
- In 1865 and 1866 , Naoroji helped found the London Indian Society and the East India Association respectively.
- He was Congress president thrice , in 1886 , 1893, and 1906 .
- Dadabhai Naoroji was among the key proponents of the 'Drain Theory' , disseminating it in his 1901 book 'Poverty and Un-British Rule in India'.

⭐ <u>Additional Information</u>

- Sir Surendranath Banerjee often known as Rashtraguru was an Indian nationalist leader during British Rule .
  - He founded a nationalist organization called the Indian National Association and was one of the founding members of the Indian National Congress .
  - Surendranath supported Montagu –Chelmsford Reforms, unlike Congress, and with many liberal leaders he left Congress and founded a new organization named Indian National Liberation Federation in 1919 .
- Badruddin Tyabji was an Indian political activist during British Raj.
  - He was one of the founding members of the Indian National Congress.
  - He was the first Muslim President of the Indian National Congress.
  - He served as the third President of the Indian National Congress from 1887 to 1888.
  - He addressed the Congress as President held at Madras in 1887.
- Pherozeshah Mehta was a member of moderate group of Indian Congress.
  - He was one of the founders of the Bombay Presidency Association as also the Indian National Congress.
  - He was a member was Imperial Legislative Council.

○ He was a powerful debater and his speeches were marked by boldness, lucidity, incisiveness, a ready wit and quick repartee, and a certain literary quality.

---

36. **Answer: c**

Explanation:

The correct answer is <u>Carbon dioxide</u>.

⭐ <u>**Key Points**</u>

- Carbon dioxide gas is needed for photosynthesis.
- The raw materials required for photosynthesis are carbon dioxide, water, and sunlight primarily.
- Plants take in carbon dioxide (CO2) and water (H2O) from the air and soil during photosynthesis .
- During photosynthesis in the plant cell, the water is oxidized , meaning it loses electrons, while the carbon dioxide is reduced , meaning it gains electrons.
- This transforms the water into oxygen and the carbon dioxide into glucose . The plant then releases the oxygen back into the air, and stores energy within the glucose molecules.

⭐ <u>**Additional Information**</u>

Gas	Use in photosynthesis
Oxygen	Oxygen is evolved during photosynthetic electron transport when water is split by the oxygen-evolving complex to provide protons and electrons to the chloroplastic electron chain, thereby generating ATP and NADPH . the energy source and reducing power for plant metabolism.
Hydrogen	During photosynthesis, Hydrogen ions are vital in both aiding proton gradients to help drive the electron transport chain, and for plant respiration. Hydrogen is necessary for building sugars and other molecules to produce glucose for plant energy .
Carbon mono oxide	Carbon monoxide does not poison plants since it is rapidly oxidized to form carbon dioxide which is used for photosynthesis .

37. **Answer: c**

Explanation:

The correct answer is <u>lift Channel.</u>

⭐ **Key Points**

- A channel of a canal, where water is carried by force uplift in the opposite direction of the slope of the land, is called **hoisting system.**
- When the main source is at a lower level than the supply level. Then water is supplied through some mechanical means . This is known as lift irrigation .
- Lift irrigation is a method of irrigation in which water instead of being transported by natural flow (as in gravity-fed canal systems) requires external energy through fuel-based, or electric power using pumps or other mechanical means.
- The left channel method is used both for watering of a certain area as a whole and for water application to particular elevated sites in the area of gravity irrigation, For example, water is lifted from rivers or from irrigation canals.

⭐ <u>Additional Information</u>

- **An aquifer** is a body of rock and/or sediment that holds groundwater.
  - Groundwater is the word used to describe precipitation that has infiltrated the soil beyond the surface and collected in empty spaces underground.
- **Drainage** is the natural or artificial removal of a surface's water and sub-surface water from an area with excess of water.
- **The command area** is the area around the dam/ project, where the area gets benefits from the dam, such as irrigation water, electricity, etc.

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38. **Answer: a**

   Explanation:

   The correct answer is <u>bleaching powder.</u>

   ⭐ <u>Key Points</u>

   - **Chlorination** is done by adding chlorine tablets or bleaching powder to the water.
   - **Chlorination is used for:**
     - Disinfection, control of microorganisms, removal of ammonia, control of taste and odour, destruction of organic matter, hydrogen sulphide oxidation.
   - Water chlorination is the process of adding chlorine or chlorine compounds such as **sodium hypochlorite to water.**
   - This method is used to kill bacteria, viruses and other microbes in water. In particular, chlorination is used to prevent the spread of waterborne diseases such as cholera, dysentery, and typhoid.

   ⭐ <u>Additional Information</u>

   - **Bleaching powder** is yellowish powder soluble in water .
     - Calcium hypochlorite is known as bleaching powder.
     - Formula- $CaOCl_2$
   - **Baking Soda** is widely used for Cooking etc.

- When Baking Soda is mixed mild acid like tartaric acid in presence of water or carbondioxide we get Baking Powder.
- Baking Powder is used as Antacids, making bread soft etc.

---

39. Answer: a

Explanation:

The correct answer is __Jay Shah.__

⭐ __Important Points__

- **Jay Shah** appointed as the Secretary of BCCI (Board of Control for Cricket in India) in October 2019.
- It is the national governing body for cricket in India.
- Its headquarters are in Wankhede Stadium, Mumbai.
- Grant Govan was its first president
- Anthony De Mello was its first secretary.
- Sourav Ganguly is the current president of BCCI.

⭐ __Additional Information__

- The full form of BCCI is the Board of Control for Cricket in India.
- The Board of Control for Cricket in India (BCCI) is the governing body for cricket in India and is under the jurisdiction of the Ministry of Youth Affairs and Sports, the Government of India.
    - It is an autonomous organization and does not come under the National sports federation of India.
    - The board was formed in December 1928 as a society, registered under the Tamil Nadu Societies Registration Act.
- BCCI is an autonomous body and does not review any grants or fundings from the Sports Ministry of India.

---

40. Answer: c

Explanation:

The correct answer is <u>Ford Motor Company.</u>

⭐ <u>Key Points</u>

- **Ford Motor Company** announced its decision to stop manufacturing vehicles for sale in India in September 2021.
- After nearly **three decades** of struggling to make a mark in India, **Ford Motor Co on September 9** announced that it would stop vehicle production at its two plants in the country and will sell only imported vehicles going ahead as part of a restructuring exercise.

⭐ <u>Additional Information</u>

- **Ford Motor Company** is an American multinational automobile manufacturer headquartered in **Dearborn, Michigan, United States.**
- It was founded by Henry Ford and incorporated on **June 16, 1903.**
- The company sells automobiles and commercial vehicles under the Ford brand, and luxury cars under its **Lincoln luxury brand.**

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41. **Answer: c**

Explanation:

The correct answer is <u>The Karakoram Range</u>.

⭐ <u>Key Points</u>

- **The Karakoram Range is known as the 'backbone of high Asia'.**
- The northernmost range of the Trans-Himalayan Ranges in India is the Great Karakoram Range also known as the Krishnagiri range.
  - Karakoram Range extends eastwards from the Pamir for about 800 km.
  - It is a range with lofty peaks [elevation 5,500 m and above].
  - It is the abode of some of the greatest glaciers of the world outside the polar regions.

- The Ladakh Plateau lies northeast of the Karakoram Range.

⭐ **Additional Information**

- Ladakh range lies to the north of the Leh and is an important part of the trans-Himalayan range.
    - It merges with the Kailash range in Tibet.
    - The important passes are Khardung la and Digar la
- Zaskar range covers an area of 7000 sq km and has a height between 3500-7000 m.
    - It separates Zaskar with Ladakh to the northeast.
- Pir Panjal is a group of mountains in the inner Himalayan region running from east-southeast to west-northwest.
    - It consists of the area of Himachal Pradesh, Jammu and Kashmir and Pakistan administered Kashmir.
    - It has passes such as Pir Panjal pass, Banihal pass, Sinthan pass and Rohtang la pass.

---

42. **Answer: a**

Explanation:

The correct answer is <u>Operation Twist.</u>

⭐ **Key Points**

- In 1961, the US Federal Reserve introduced a monetary policy initiative named **Operation Twist** designed to lower long-term rates to stimulate the US economy.
- This initiative was adopted by the Reserve Bank of India from December 2019.
- The term gets its name from the simultaneous buying of long-term bonds and selling short-term bonds, suggests a "twisting" of the yield curve and creating less curvature in the rates term structure.
- Operation Twist was **first attempted in 1961** , and again in the years following the **2008-09 financial crisis.**

⭐ <u>Additional Information</u>

- Operation Twist
    - Operation Twist is a monetary policy of the Reserve Bank of India.
    - This is an unconventional monetary policy of the RBI.
    - Operation Twist is part of the Open Market Operation (OMO) of RBI.
    - Under Operation Twist, RBI does the simultaneous buying and selling of government securities .
    - RBI buys long-term government securities while RBI sells short-term government securities .
    - The purpose of Operation Twist is to reduce the interest rate of long-term government bonds.
    - As the rate of interest gets reduced, both the public and the government can borrow at a cheaper rate .
    - This is supposed to revive the economy.

---

43. **Answer: b**

Explanation:

The correct answer is <u>Kevadia.</u>

⭐ <u>Key Points</u>

- The President of India, Shri Ram Nath Kovind, visited **Gujarat (Kevadia)** tomorrow (November 25, 2020) to inaugurate the 80th All India Presiding Officers' Conference.
- The two-day Conference is being organized by the Lok Sabha to celebrate the Constitution Day.
- It is 80 th All India Presiding Officers' Conference.

⭐ <u>Additional Information</u>

- Lok Sabha Speaker <u>Om Birla</u> chaired the 81stAll India Presiding Officers' Conference (AIPOC) via video-conferencing on 15 September 2021 .

- The conference deliberated on the 'Role of Legislature in fostering effective and meaningful democracy'.
- The 81st All India Presiding Officers' Conference comes in the backdrop of the International Day of Democracy, which is observed on September 15 every year.

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44. Answer: c

Explanation:

The correct answer is Coal.

⭐ Key Points

- The two major sources of energy can be classified under:
  - Conventional Sources
  - Non-Conventional Sources
- Conventional Sources:
  - It is also known as a non-renewable source of energy.
  - It is available in limited quantity apart from hydroelectric power.
  - Energy from fossil fuels, such as **coal, petroleum, natural gas, nuclear material, the sun, and wind.**
- Non-Conventional Sources:
  - It is also known as a renewable source of energy
  - It uses again and again without depletion.
  - Examples include **solar energy, bio-energy, tidal energy, and wind energy.**

⭐ Additional Information

Difference Between Conventional and Non-conventional Sources of Energy:

Conventional sources of energy	Non-conventional sources of energy
These sources of energy are also known as a non-renewable source of energy.	These sources of energy are also known as a renewable source of energy.
They find both commercial and industrial purposes.	Most of the cases it found for household purposes.
These can be considered to be one of the reasons for the cause of pollution.	These are not responsible for the cause of pollution.
The overall efficiency of the energy source is not high.	The overall efficiency of the energy source is low.
These sources of energy are not environmentally friendly.	These sources of energy are environmentally friendly.
Application: Thermal Power Plant, Nuclear Power Plant, Gas and Diesel Power Plant, etc	Application: Solar Plant, Tidal Plant, Geo-Thermal Plant, etc

45. **Answer: c**

Explanation:

The correct answer is Goa.

⭐ <u>Key Points</u>

- Mando Festival is celebrated in Goa.
- <u>Mando Festival</u>
    - Mando is a beautiful dance performance.
    - Its theme is usually of love – bitter and sweet passion which is in slow and deliberate motion and is well expressed through beautiful movements of words and dance.
    - Young men and women dance to the beat of romantic tunes of Ghumot (mud percussion instrument) and violin.

⭐ <u>Confusion Points</u>

- Please do not confuse this with the Mandu Festival of Madhya Pradesh . Mando festival is celebrated in Goa.

⭐ <u>Additional Information</u>

- <u>Sao Joao festival</u>
    - It is celebrated in Goa to pay tribute to St. John the Baptist .
        - St. John was the relative of Mother Mary.
    - It is held at the beginning of the monsoon, on June 24.
- <u>Shigmo</u>
    - It is celebrated in Goa as one of the prominent festivals of the Konkani Hindu community.

---

46. **Answer: c**

Explanation:

The correct answer is <u>Dioptre</u>

⭐ <u>Important Points</u>

- Power is the ability to bend light and it is equal to the reciprocal of the focal length of the lens/mirror in meters.
- Power (P) = 1/f

- Where f is the focal length of the lens/mirror .

⭐ Additional Information

- Dioptre is a unit of measurement of the optical power of a lens or curved mirror, which is equal to the reciprocal of the focal length measured in metres.
- And since the S.I unit of the focal length is the meter (m).
- So the S.I unit of power = 1/(SI unit of focal length) = m -1 = Dioptre (D).
- 1 m -1 = 1 D

---

47. Answer: a

Explanation:

The correct answer is 1526.

⭐ Key Points

- Babur defeated the Sultan of Delhi and captured Delhi and Agra in the year1526 .
- In 1526 , Babur defeated Sultan Ibrahim Lodi at Panipat .
- On 21st April 1526, Babur defeated Ibrahim Lodi in the First Battle of Panipat and quickly occupied Delhi and Despite vast and superior troops, Ibrahim Lodi lost in the battle due to Babur's superior strategy and use of artillery.
- The First Battle of Panipat marked the foundation of Mughal dominion in India.

⭐ Additional Information

Battle	Year	Remarks
1st Battle of Panipat	1526	Babur defeated Ibrahim Lodhi establishing the Mughal Empire in India.
Battle of Khanwa	1527	Babur defeated Rana Sunga of Mewar and his allies.
Battle of Ghaghra	1529	Babur defeated the joint forces of the Afghans and Sultan of Bengal
Battle of Chausa	1539	Sher Shah Suri defeated Humayun

48. Answer: c

Explanation:

The correct answer is <u>Udham Singh.</u>

⭐ Key Points

- Udham Singh was born on December 26, 1899 , in the Sangrur district of Punjab.
- He was present at Jallianwala Bagh when Massacre took place on April 13, 1919, and was deeply moved by the mishap.
- After that, he went to Africa to work as a laborer and from there moved to the USA.
- In the USA, he worked with the Ghadar Party.
- He returned back to India after being called by Bhagat Singh in 1927 but was arrested here because of being involved in the activities of the Ghadar Party.
- He was released in 1931, went to Germany and to England in 1933 .
- On March 13, 1940 , Michael O'Dwyer was attending a meeting of the East India Association and Central Asian Society, of which Udham Singh was also a part.
- As soon as the meeting concluded **Udham Singh shot O'Dwyer dead.**

⭐ Additional Information

Jallianwala Bagh Massacre:

- The incident happened in the backdrop of protests against the Rowlatt Act and the subsequent arrest of Dr. Satyapal and Saifuddin Kichlew.
- To control the violence that emerged out after the arrest of the two nationalists, restrictions were imposed on the movement of people and holding the demonstrations in Amritsar.
- But on the day of Baisakhi, April 13, 1919 , thousands of people were unaware of the restrictions gathered at Jallianwala Bagh.
- General Dyer following the orders of Michael O'Dwyer (Lt. Governor of Punjab) directed the troops to surround the gathering and shoot the people without any warning.
- As a result, thousands of people were killed and injured.
- After this incident, Rabindra Nath Tagore renounced his Knighthood.
- Mahatma Gandhi gave up the title of Kaiser-i-Hind and withdrew the Satyagrah against Rowlatt act.

49. Answer: b

Explanation:

The correct answer is**Narinder Batra.**

⭐ **Important Points**

- **Narinder Batra** was conferred with the 'Capital Foundation National Award' for his contribution to sports in November 2020.
- Narinder Batra is the President of the International Hockey Federation (FIH).
- Incumbent Narinder Batra of India was on 22 May 2021 re-elected as the International Hockey Federation (FIH) President for a second term.
- Batra is also the President of the Indian Olympic Association (IOA) and an International Olympic Committee (IOC) membe r.
- He will hold the office until 2024.

50. Answer: c

Explanation:

The correct answer is <u>**Aayushi Dholakia.**</u>

⭐ <u>**Key Points**</u>

- **Aayushi Dholakia** is an Indian beauty queen, who was crowned as **Miss Teen International 2019 on 19 December 2019 in New Delhi, India.**
- She is the first Indian to win the title of **Miss Teen International.**
- She was crowned by the previous year winner **Odalys Duarte of Mexico.**

⭐ <u>**Additional Information**</u>

- South Africa's <u>Zozibini Tunzi</u> has been crowned Miss Universe 2019.
- Miss Universe Sofía Aragón from Mexico is the second-runner up.
- Toni-Ann Singh of Jamaica was announced the winner of the Miss World 2019 beauty pageant held at the ExCeL London .

---

51. **Answer: d**

Explanation:

Formula:

D = S × T, where

D = Distance

S = Speed

T = Time

Concept:

When two objects move in the same direction, their relative speed will be the difference of their speeds.

Calculation:

Let the time at which they meet be "t" sec.

Distance travelled by A = 8 × $\frac{5}{18}$ × t = $\frac{40t}{18}$

Distance travelled by B = 5 × $\frac{5}{18}$ × t = $\frac{25t}{18}$

According to the question,

$\frac{40t}{18}$ – $\frac{25t}{18}$ = 200 m

⇒ 15t = 200 × 18

∴ t = 240 sec or 4min

⇒ (t – 1) sec = (4 – 1) = 3 min

Relative speed = 8 – 5 = 3 km/hr

Relative speed in m/s = 3 × $\frac{5}{18}$ = $\frac{5}{6}$ m/s

Total time = 3 min = 3 × 60 = 180 sec

Distance covered = $\frac{5}{6}$ × 180 = 150 m

Distance left = 200 - 150 = 50 m

∴ The distance between A and B after (t – 1) seconds is 50 m.

---

52. Answer: b

Explanation:

Concept:

We would use the concept of BODMAS-

B – Bracket

O – Off

D – Divide

M – Multiplication

A – Addition

S – Subtraction

Calculation:

60 ÷ [50 + 7 – {14 + (24 of 2 ÷ 3) – 12 ÷ 4 × 2 + 18 ÷ 4 × 2}]

⇒ 60 ÷ [50 + 7 – {14 + (48 ÷ 3) – 12 ÷ 4 × 2 + 18 ÷ 4 × 2}]

⇒ 60 ÷ [50 + 7 – {14 + 16 – 12 ÷ 4 × 2 + 18 ÷ 4 × 2}]

⇒ 60 ÷ [50 + 7 – {14 + 16 – 3 × 2 + $\frac{18}{4}$ × 2}]

⇒ 60 ÷ [50 + 7 – {14 + 16 – 6 + 9}]

⇒ 60 ÷ [50 + 7 – {39 – 6}]

⇒ 60 ÷ [50 + 7 – 33]

⇒ 60 ÷ [57 – 33]

⇒ 60 ÷ 24

⇒ $\frac{5}{2}$

∴ The answer to the expression is $\frac{5}{2}$.

---

53. **Answer: c**

Explanation:

Given:

Volume of cone = 770 cm 3

Height of cone = 15 cm

Formula:

Volume of cone = $\frac{1}{3}$ × π × r 2 × h, where

r = radius of the cone

h = height of the cone

Calculation:

Volume of metallic cone = $\frac{1}{3}$ × $\frac{22}{7}$ × r × r × 15 = 15.7 × r ^{2}

According to the question-

⇒ 15.7 × r 2 = 770

⇒ r 2 = 49

⇒ r = 7 cm

∴ The radius of the base of the cone is 7 cm.

54. **Answer: c**

Explanation:

Calculation:

Milk in the solution A = 5 : 3

Let the total quantity of milk and water in the solution be 5a, and 3a.

According to the question-

$\Rightarrow \frac{5a}{3a+4} = \frac{3}{2}$

$\Rightarrow 10a = 9a + 12$

$\Rightarrow a = 12$

$\therefore$ Quantity of milk in the mixture = 5 × 12 = 60 litres

The quantity of milk in the mixture was 60 litres.

---

55. Answer: c

Explanation:

Calculation:

Let the marks secured by B be "y"

$\Rightarrow$ Marks secured by A = y + 9

According to the question-

$\Rightarrow y + 9 = \frac{60}{100} \times (y + y + 9)$

$\Rightarrow 10y + 90 = 12y + 54$

$\Rightarrow 2y = 36$

$\Rightarrow y = 18$

$\therefore$ Marks scored by A = 18 + 9 = 27

A scored 27 marks in the examination.

---

56. Answer: b

Explanation:

Formula:

$P = \frac{SI \times 100}{R \times T}$

$A = P \times \left(1 + \frac{R}{100}\right)T$

CI = A – P

where–

A = Amount

P = Principal

SI = Simple Interest

R = Rate

T = Time

CI = Compound Interest
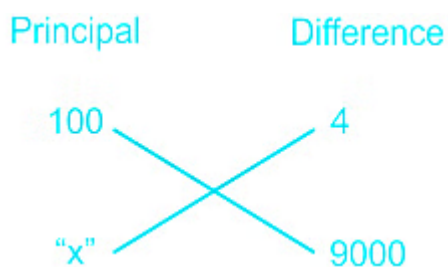
Calculation:

Let the principal be 100

SI = (100 × 20 × 2) ÷ 100 = 40

$A = 100 \times \left(1 + \frac{20}{100}\right)2$

$A = 100 \times \frac{6}{5} \times \frac{6}{5} = 144$

CI = 144 – 100 = 44

⇒ Difference between CI and SI = 44 – 40 = 4

⇒ x = 9000 × $\frac{100}{4}$ = Rs 2,25,000

The sum was Rs 2,25,000.

---

57. Answer: c

Explanation:

Calculation:

a : b = 4 : 9 and b : c = 3 : 7,

⇒ $\frac{a}{b}$ = $\frac{4}{9}$

⇒ $\frac{b}{c}$ = $\frac{3}{7}$

LCM of 9 and 3 = 27

Multiplying $\frac{a}{b}$ by 3 and $\frac{b}{c}$ by 9, we get–

⇒ $\frac{4}{9}$ × $\frac{3}{3}$ = $\frac{12}{27}$

⇒ $\frac{3}{7}$ × $\frac{9}{9}$ = $\frac{27}{63}$

Thus, the ratio becomes 12 : 27 : 63

Reducing the ratio = 4 : 9 : 21

∴ The required ratio is 4 : 9 : 21

---

58. Answer: d

Explanation:

Formula:

T = $\frac{SI \times 100}{P \times R}$

SI = A - P, Where-

A = Amount

P = Principal amount

T = Time

R = Rate

SI = Simple Interest

Calculation :

Substituting the values, we get-

⇒ SI = Rs 12,960 - Rs 12,000 = Rs 960

T = $\frac{960 \times 100}{12,000 \times 2}$ = 4 years

∴ The amount was lent for 4 years.

59. **Answer: c**

Explanation:

Concept:

We would use the concept of BODMAS-

B – Bracket

O – Off

D – Divide

M – Multiplication

A – Addition

S – Subtraction

Calculation:

$\frac{2}{5} - \left[1\frac{1}{3} + \left(1\frac{1}{4} - 2\frac{1}{3} \right) \right] \div 2\frac{2}{3} \times \frac{3}{5} + \frac{2}{5}$

$\Rightarrow \frac{2}{5} - \left[1\frac{1}{3} - \frac{13}{12} \right] \div 2\frac{2}{3} \times \frac{3}{5} + \frac{2}{5}$

$\Rightarrow \frac{2}{5} - \frac{1}{4} \div 2\frac{2}{3} \times \frac{3}{5} + \frac{2}{5}$

$\Rightarrow \frac{2}{5} - \frac{1}{4} \times \frac{3}{8} \times \frac{3}{5} + \frac{2}{5}$

$\Rightarrow \frac{2}{5} - \frac{1}{4} \times \frac{3}{8} \times \frac{3}{5} + \frac{2}{5}$

$\Rightarrow \frac{2}{5} - \frac{9}{160} + \frac{2}{5}$

$\Rightarrow \frac{4}{5} - \frac{9}{160}$

$\Rightarrow \frac{119}{160}$

$\therefore$ The answer to the expression is $\frac{119}{160}$.

---

60. **Answer: d**

Explanation:

Concept:

$\Rightarrow \frac{a}{b} = \frac{c}{d}$

$\Rightarrow$ fourth proportional (d) $= \frac{b \times c}{a}$

Calculation:

Using the fourth proportional equation, we get-

$\Rightarrow$ d $= \frac{8 \times 25}{5} = 40$

$\therefore$ The fourth proportional is 40.

61. Answer: b

Explanation:

Formula:

Speed = Total distance covered ÷ Total time

Calculation:

Total time taken = 5:44 pm - 4:50 pm = 54 min

Total time taken in hours = $\frac{54}{60}$ hours

Speed = $\frac{45}{\frac{54}{60}}$ = 45 × $\frac{60}{54}$ = 50 km/h

The speed of the train is 50 km/h.

62. Answer: c

Explanation:

Formula:

$\frac{M_1 \times D_1}{W_1} = \frac{M_2 \times D_2}{W_2}$, where

M 1 and M 2 = Number of men working on D 1 and D 2.

D 1 and D 2 = Days for which M 1 and M 2 worked respectively.

W₁ and W₂ = Portion of work finished.

Calculations:

Portion of the work remaining = 1 - $\frac{1}{3}$ = $\frac{2}{3}$

Let the number of additional men required be "y"

Substituting the values, we get-

$$\Rightarrow \quad \frac{75 \times 20}{\frac{1}{3}} \quad = \quad \frac{(75+y) \times 30}{\frac{2}{3}}$$

⇒ 300 = 225 + 3y

∴ 3y = 75

⇒ y = 25 men

∴ The additional men needed is 25.

---

63. Answer: d

Explanation:

Formula:

Average = Sum of total weight ÷ Total boys

Calculation:

Sum of the weight of 14 boys = 14 × 40.25 = 563.5 kg

Sum of the weight of 10 boys = 10 × 35.15 kg = 351.5 kg

Sum of total weight = 563.5 + 351.5 = 915 kg

⇒ Average = 915 ÷ (14 + 10) = 38.125 kg

∴ The average weight of all boys was 38.125 kg.

---

64. Answer: d

Explanation:

Formula:

$CP = \frac{SP}{110+G} \times 100$, where

CP = Cost price

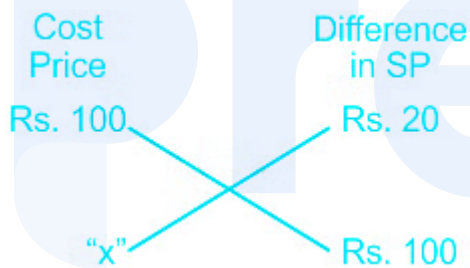SP = Selling price

G = Gain %

Calculations:

Let the cost price be Rs 100.

SP for 14% loss = Rs 100 – Rs 14 = Rs 86

SP for 6% profit = Rs 100 + Rs 6 = Rs 106

Difference in SP = Rs 106 – Rs 86 = Rs 20

$\Rightarrow x = \frac{100 \times 100}{20}$ = Rs 500

∴ The cost price is Rs 500.

---

65. Answer: d

Explanation:

Formula:

SI = (P x R x T) / 100

Effective interest rate = T × R

Where-

P = Principal amount

R = Rate

T = Time

SI = Simple Interest

Calculation :

Let the principal be 100.

According to the question-

⇒ 5% p.a. for 3 years

∴ Effective rate for 3 year period = 5 × 3 = 15%

⇒ 8% p.a. for 4 years

∴ Effective rate for 4 year period = 8 × 4 = 32%

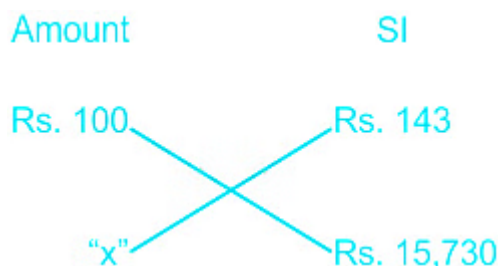Remaining time = 13 − (3 + 4) = 6 years

⇒ 16% p.a. for 6 years

∴ Effective rate for the remaining 6 year period = 6 × 16 = 96%

Collective effective tax rate for 13 year period = 15% + 32% + 96% = 143%

∴ SI = (100 x 143 x 1) / 100 = 143

Amount   SI

Rs. 100   Rs. 143

"x"   Rs. 15,730

⇒ x = 15,730 × $\frac{100}{143}$ = Rs 11,000

∴ The money borrowed is Rs 11,000.

66. **Answer: d**

Explanation:

Formula:

A = l × b

C = $\frac{A}{w}$ × r , where-

A = Area of the room

l and b = Length, and breadth of the room

w = Width of the carpet

r = Rate of carpeting

C = Total cost of carpeting the room

Calculation:

A = 14 × 8 = 112 m^2

C = $\frac{112}{0.5}$ × Rs 9.4 = Rs 2,105.60

∴ The total cost of Carpeting the room is Rs 2,105.60

67. **Answer: c**

Explanation:

Formula:

Sum = Average × Total num

Calculation:

Total runs scored in 48 innings = 48 × 33 = 1584

Total runs scored in the remaining 46 innings = 46 × 30 = 1,380

∴ Runs scored in the remaining 2 innings = 1,584 - 1,380 = 204

Let the highest runs scored be "h".

Let the lowest runs scored be "s".

According to the question-

⇒ h - s = 144 (Eq 1)

⇒ h + s = 204 (Eq 2)

Adding (Eq 1) and (Eq 2), we get-

⇒ 2h = 348

∴ h = 174

∴ The highest score is 174.

---

68. **Answer: d**

Explanation:

Concept:

We need to find a common multiple for a set of numbers i.e., LCM of the numbers. This is followed by division with the least five-digit number and the remainder obtained is added to the least five-digit number.

Calculations:

LCM of 14, 30, and 42 = 210

Least five-digit number = 10,000

Remainder on dividing Least five-digit number by 210 = 10,000 ÷ 210 = 80

Least five-digit number that would be exactly divisible by 210 = 10,000 + 80 = 10,080

∴ **The least five-digit number that would be exactly divisible by 14, 30, and 42 is 10,080.**

---

69. Answer: d

Explanation:

Formula:

$D\% = \frac{D}{MP} \times 100$,

D = MP - SP, where

SP = Selling Price

MP = Marked Price

D% = Discount percentage

D = Discount

Calculation:

Total cost price = Rs 6400 + Rs 600 = Rs 7000

Marked price = 1.08 × Rs 7000 = Rs 7560.

D = Rs 7560 - Rs 6426 = Rs 1134

$D\% = \frac{1134}{7560} \times 100 = 15\%$

∴ The discount percentage on the article is 15%.

---

70. Answer: d

Explanation:

Formula:

Efficiency = Total work / Time taken to complete work individually

Efficiency of C = Efficiency of A, B and C - Efficiency of A and B

Efficiency of B = Effieicny of B and C - Efficiency of C

Concept Used:

While solving work and time problems, it is always advisable to assume total work days as the LCM value of the individual time required for the persons involved.

E.g., For the above problem, we took the LCM of 36, 40, and 30 as the total work to minimize the calculation at the later stages.

Calculation:

LCM of 36, 40, 30 = 360

Assuming that the total work is 360 units.

Efficiency of A and B-

$\Rightarrow \frac{360}{36}$ = 10 units of work/day

Efficiency of B and C-

$\Rightarrow \frac{360}{40}$ = 9 unit of work/day

Efficiency of A, B and C-

$\Rightarrow \frac{360}{30}$ = 12 units of work/day

Efficiency of C = 12 - 10 = 2 units of work/day

Efficiency of B = 9 - 2 = 7 units of work/day

$\Rightarrow$ Time taken by B to complete the work = $\frac{360}{7}$ day

∴ Time taken to complete $\frac{7}{8}$ part of the original work = $\frac{7}{8}$ × $\frac{360}{7}$ = 45 days.

∴ B would complete $\frac{7}{8}$ th of the work in 45 days.

---

71. Answer: d

Explanation:

Concept:

We need to find the LCM of 7, 5 and 28 and thereafter we need to check individually which of the integer is not a multiple of the LCM. LCM is the least common multiple of the given pair of numbers.

Calculation:

LCM Of 7, 5 and 28 = 140

∴ From the above numbers, all the numbers are divisible by the LCM i.e., 140 except 70. Hence, 70 is not a multiple of 7, 5 and 28.

The answer is 7, 5 and 28.

---

72. Answer: d

Explanation:

Calculation:

⇒ $\frac{280}{100}$ × 160 = 448

⇒ $\frac{25}{100}$ × 720 = 180

Substituting the values, we get-

⇒ 448 - 180 = $\frac{y}{100}$ × 200

$\Rightarrow 268 = \frac{y}{100} \times 200$

$\Rightarrow y = 134$

The answer is 134.

---

73. Answer: b

Explanation:

Formula :

CP = $\frac{SP}{1-\frac{L}{100}}$, where

CP = Cost Price

SP = Selling Price

L = Loss%

Calculation:

Substituing the value in the Selling Price equation-

$\Rightarrow$ CP = $\frac{1024}{1-\frac{20}{100}}$ = 1024 × $\frac{5}{4}$ = Rs 1280

According to the question-

$\Rightarrow$ New SP = Rs 1280 × $\left(1 + \frac{8}{100}\right)$ = Rs 1382.40

∴ The selling price is Rs 1382.40

---

74. Answer: a

Explanation:

Formula :

$SP = CP \times \left(1 + \frac{G}{100}\right)$, where

CP = Cost Price

SP = Selling Price

G = Gain%

Calculation:

Let the cost price be Rs 100

Selling price after 21% profit = Rs 100 $\times \left(1 + \frac{21}{100}\right)$ = Rs 121

According to the question-

$\Rightarrow$ New CP = Rs 100 $\times \left(1 - \frac{12}{100}\right)$ = Rs 88

SP after 30% gain = 1.3 × Rs 88 = Rs 114.4

Difference = Rs 121 - Rs 114.4 = Rs 6.6
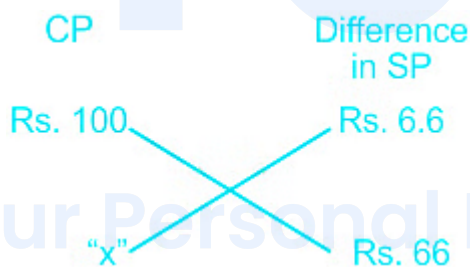
$\Rightarrow$ x = Rs 100 $\times \frac{66}{6.6}$ = Rs 1000

$\therefore$ The cost price is Rs 1000.

---

75. Answer: b

Explanation:

Formula :

MP = SP + D

D% = $\frac{D}{MP}$ × 100, where-

MP = Marked Price

CP = Cost Price

D = Discount

D% = Discount Percentage

Calculation:

MP = Rs 416 + Rs 2,184 = Rs 2600

D% = $\frac{416}{2600}$ × 100 = 16%

∴ The required discount percentage is 16%.

---

76. **Answer: d**

Explanation:

The correct answer is, ' **Vanish'**

⭐ <u>Key Points</u>

- **Emerge** means **to appear or rise** .
  - Example - *The flower emerged in the middle of the garden that night.*
- **Vanish** means **to disappear** .
  - Example - *He vanished into that rainy night.*
- Emerge means to appear and Vanish means to disappear. They are the exact opposite.

⭐ <u>Additional Information</u>

- **Lose** means **to fail** .
  - Example - *Harry will lose tonight to Jay.*
- **Appear** means **to come out or become visible** . A synonym for Emerge.

- Example - *The rat appeared in front of my doorstep.*
- **Surface** means **to come into sight** . A synonym for Emerge
  - Example - *The news first surfaced a week ago.*

---

77. Answer: b

Explanation:

The correct answer is, ' **Facinating'**

⭐ <u>Key Points</u>

- The correct spelling is Fascinating.
- **Fascinating** means **interesting or wonderful.**
  - Example - *It's fascinating that you can speak four languages.*

⭐ <u>Additional Information</u>

- **Imitation** is correct. It means **to copy or to act.**
  - Example - *That's Robert's imitation.*
- **Effective** means **fruitful or productive** .
  - Example - *These methods are effective.*
- **Arrogance** means **boasting or immodesty** .
  - Example - *Kane shows arrogance in his voice.*

---

78. Answer: a

Explanation:

The correct answer is, ' **survive** '

⭐ <u>Key Points</u>

- **Survive** means **continuing to exist** .
  - Example - *Rats can survive in the wild.*

- The correct sentence is, **There are many plants and animals that cannot survive in very cold or very hot places.**

⭐ Additional Information

- **Preserve** means **to protect or to look after** .
  - Example – *Shane preserves his family's legacy in his house.*
- **Tolerates** means **to endure or to bear** .
  - Example – *Sammy will not tolerate your continuous inferior quality of work.*
- **Bear** means **to put up with** .
  - Example – *I will not bear with this anymore.*

---

79. **Answer: d**

Explanation:

The correct answer is, **'evidence** '

⭐ **Key Points**

- **Evidence** means **proof or verification** .
  - Example – *There is a piece of concrete evidence against Bob that he stole the man's watch.*
- The correct sentence is, **The judge had to free the young man because there was no evidence against him** .

⭐ Additional Information

- **Cause** means **origin or source** .
  - Example – *The cause of high employee turnover is the poor hiring process.*
- **Excuse** means **to justify.**
  - Example – *Marie's excuse for being late was heavy traffic.*
- **Belief** means **trust or acceptance** .
  - Example – *His belief is strong.*

---

80. Answer: b

Explanation:

The correct answer is **"To have a very strong and continuous desire or craving for something"** .

⭐ Key Points

- An *idiom* is a collection of words with a creative, additional meaning that cannot be understood from the individual words alone.
- Idioms frequently had literal meanings when they first appeared but lost them when they were used outside of their appropriate meaning.
- The idiom "To have a yen for" means *an intense desire for or craving for something*.
- *Example*: Shreya has a yen for sketching.
  - Here, it means Shreya has the desire to do sketching.

⭐ Additional Information

- Idioms are a *group of words*, *phrases*, or *sentences* that convey a meaning other than the words or phrases' literal meanings.
- Many well-known idioms are composed of fragments of sentences.
- A *proverb* is a type of idiom that contains lengthy or even whole phrases.
- Following is a list of idioms:
  - *Beating around the bush.*
  - *Judge a book by its cover.*
  - *Break a leg.*

81. Answer: a

Explanation:

The correct answer is " **Occurence** ".

⭐ <u>Key Points</u>

- The correct spelling of the given word "Occurence" is "*Occurrence*".
- An event or anything that happens is defined as an occurrence.
- *Example*: Common occurrences include lightning.

⭐ <u>Additional Information</u>

- *Adequate* refers to sufficient quantity or quality for usage or acceptance.
  - *Example*: Although your work is adequate, I'm sure you could improve.
- *Attendance* is the act or reality of being present for something or someone.
  - *Example*: The meeting's attendance was below average.
- *Necessary* is something that is required for a cause or a purpose.
  - *Example*: A nutritious diet is necessary for a long and healthy life.

---

82. **Answer: d**

Explanation:

The correct answer is " **Resist** ".

⭐ <u>Key Points</u>

- A *Synonym* is any pair of words or phrases that have a *common vocabulary* and have the same meaning in some or all senses.
- *Repel* means to prevent something from approaching you or attacking you whereas *Resist* means to stop oneself from getting or engaging in something that one desires.
- Therefore, Resist is an appropriate synonym for Repel.
- *Example*: *The invitation was difficult to resist.*

⭐ <u>Additional Information</u>

- *Retains* means to hold onto it or keep it.
- *Remit* means to send back.
- *Regret* means to feel guilty about something you did or did not do.

83. **Answer: c**

Explanation:

The correct answer is " **Confuse** ".

⭐ <u>Key Points</u>

- A word that has the same meaning as another word is known as a *synonym*.
- *Baffle* means to be *unclear*.
- *Confuse* is an appropriate synonym for Baffle.

⭐ <u>Additional Information</u>

- *Amuse* means to cause someone to smile or chuckle.
- *Bemuse* means to gently frustrate a person.
- *Choose* means to select what or who you want from the options available.

84. **Answer: d**

Explanation:

The correct option is " Upto him ".

⭐ <u>Key Points</u>

- In the given sentence, "*upto him*" segment contains a grammatical error.
- Upto him means *one's choice to make*.
- Therefore, the correct statement would be:
    - *I prevailed to join our team.*

⭐ <u>Additional Information</u>

- When a set of words are written down, a *sentence* is one that starts with a capital letter and ends with a full stop, question mark, or exclamation mark.

- The majority of sentences have a *subject* and a *verb*.
- The main types of sentences are:
    - *Simple sentence*
    - *Complex sentence*
    - *Compound sentence*

---

85. Answer: d

Explanation:

The correct answer is " **Do what others are doing** ".

⭐ <u>Key Points</u>

- *Idiom* is a term whose meaning differs from the meanings of the words that make up it.
- In the given question "*Go with the flow*" means to agree with others or follow their lead since it is the simplest course of action.
- Therefore, "*Do what others are doing*" is the appropriate meaning of the idiom.

⭐ <u>Additional Information</u>

- *Swim in deep water* means to be or become in very big trouble.
- *Flatter someone in authority* means to excessive praise, especially when it stems from self-interest.
- *Control a situation* means to order, guide, or govern.

---

86. Answer: a

Explanation:

The correct answer is " **Decided to give me** ".

⭐ <u>Key Points</u>

- In the given sentence, "*decided to give me*" is an appropriate segment.
- The correct sentence would be:
  - My grandmother *decided to give me* and my brothers some of her favorite books.

⭐ Additional Information

- A sentence is a *collection of words* that expresses a complete understanding.
- A *subject* and a *verb* are required in every sentence.
- A complete sentence is made up of a *main clause* and, at sometimes, one or more *auxiliary clauses*.
- Sentences normally have a *subject and a predicate* and express a *statement, question, exclamation, or command*.

---

87. Answer: c

Explanation:

The correct answer is "**Trumpet** ".

⭐ Key Points

- The largest land creatures are *elephants*.
- They always *exist in groups* and are mostly found in lush jungles.
- The sound made by an elephant is named as *trumpet*.

⭐ Additional Information

- The sound made by a *sheep* is known as *bleat*.
- The sound made by a *dog* is known as *bark*.
- The sound made by a *frog* is known as *croak*.

---

88. Answer: a

Explanation:

The correct answer is "Abdicate"

⭐ <u>Key Points</u>

- **Abdicate** is a verb form that signifies stepping down from one's position and power.
- To give up a throne voluntarily can also be said as the king/higher authority giving up his/her power and position.
- Some other synonyms of abdicate are forgone, relinquish, renounce, and step down.
  - Example: The coordinator abdicate yesterday.

⭐ <u>Additional Information</u>

Other words that don't suit this sentence because they have different meanings such as

- Vacate means to leave or empty.
  - Example: The owner said to pay the rent or vacate the room.
- Allocate means to assign for a specific purpose
  - Example: The seat has been allocated for Pwd students.
- Eradicate means to destroy something
  - Example: Shilla eradicated the files.

89. **Answer: d**

Explanation:

The correct answer is **"magnificent "**.

⭐ <u>Key Points</u>

- **Magnificent** means **big and spectacular** .
  - **Example:***The stars looked **magnificent** through the telescope.*
- **Banyan Trees** are mostly **big** .
- Therefore, the adjective that best describes the banyan tree is "magnificent".

- **Waterlogged** - filled with water.
  - **Example:***The bridge was* **waterlogged** *after the heavy rains.*
- **Inclusive** - included with.
  - **Example:***This tour package is* **inclusive** *of both stay and food.*
- **Exalted** - elevate a person in rank or position.
  - **Example:***The team leader got* **exalted** *to the position of Manager.*

---

90. Answer: a

Explanation:

The correct answer is **"Unlike"**

⭐ **Key Points**

- *Unlike* is a preposition, which means a word or phrase that is used before a noun or pronoun to show place, time, or direction and denotes the relation between the noun or pronoun.
  - **Example:** Niharika can't play chess, unlike Rohan.
- *While* is a subordinating conjunction which depends upon the main clause.
  - **Example:** Parmeet called Rihanna, while she was doing her homework.
- Unlike is different from others here the sister enjoys reading whereas his brother doesn't like it which makes him different.

⭐ **Additional Information**

- Other two options are also conjunction rather than preposition to mark the special bond between the noun, on the other hand, conjunctions are those word which joins two individual (yet meaningful) sentences and forms a **Principal clause** and **co-ordinates clause.**
- **But** is an **adversative conjunction(part of co-ordinate conjunction)** which is to denote the result is opposite to the action.
  - **Example:** He is wealthy but not healthy.
- **So as:** It is used to introduce the result or decision.

- ○ **Example:** He made many plans so as to pass the exam.

---

91. Answer: d

Explanation:

The correct answer is **"Bibliography"**

⭐ **Key Points**

- Words used in a wordy structure to form a clear answer are called one-word substitutions.
- The sentence is written in past simple tense.
- As the word *used* has been used and it shows some sources where the information has been collected.
  - ○ **Example:** She placed the bottle on the chair.

⭐ **Additional Information**

- **Dictionary** is a booklet that holds every word in it.
  - ○ **Example:** In alphabetical order, we can find A-Z words from the Dictionary.
- **Atlas** is the impression of a geographical outline in a miniature form.
  - ○ **Example:** Atlas is a must for the students of the geologist.
- **Journal** is the record of daily news and events.
  - ○ **Example:** The gist of this month's news has been published in the journal.

---

92. Answer: b

Explanation:

The correct answer is **"by there keeper"**

⭐ **Key Points**

- The error lies in **Part(B)/ option 2** of the sentence.

- *There* is used when we have to address some certain location and *their* is used to indicate a noun.
- *Their* is the third-person possessive form of *they*.
  - **Example:** They went there for having dinner and these are their dogs.
- The correct answer to this question is "The lions were fed by their keeper when we arrived at the zoo"

⭐ Additional Information

- The sentence is an assertive sentence of past continuous tense.
- Formula Subject + was/were + Verb (+ing)+ (object).
  - **Example:** They were at the dining when the incident took place.

---

93. Answer: c

Explanation:

The correct answer is **"Familiar"**

⭐ **Key Points**

- **Antonym** means the opposite word.
- Peculiar is an adjective which means out of the box/ ordinary, unusual or strange where as the opposite word of peculiar is Familiar which means bosom, friendly or familiar.
  - **Example:** The bell sounds very peculiar to others.
- Note: Other Options are not suitable because they are synonyms of Peculiar, having similar meanings.

⭐ **Additional Information**

- **Weird** means strange character or behaviour.
  - **Example:** Shine has a weird character.
- **Unique** means being only one of a kind.
  - **Example:** Her writing style is very Unique.
- **Strange** means unexpected or different.

o **Example:** Strange thing happens in an unexpected moment.

---

94. Answer: b

Explanation:

The correct answer is **"Nature teach us"**

⭐ **Key Points**

- Nature is referred to as 3rd person singular in the sentence.
- English grammar rules state that every 3rd person singular is followed by the verb of 's' or 'es'.
  - o Example – *Trust takes time* .
- The correct sentence is, **Nature teaches us / to maintain / a balance / in life** .

⭐ **Additional Information**

- Provided below is a table with the examples of 1st, 2nd, and 3rd person cases of verbs.

	1st Person	2nd Person	3rd Person
Singular	I do	You do	**He does, She does, It does, Mia does, Life does**
Plural	We do	You do	They do

---

95. Answer: b

Explanation:

The correct answer is **'No improvement required'**.

⭐ **Key Points**

- The underlined part in the given sentence is grammatically correct.

- Here, **'a chance to exist'** is correctly used.
- We know that the indefinite article ' **a**' is used before a consonant. Here, ' **chance** ' starts with **a consonant.**
- The phrase **'chance to exist'** means 'chance to live/ live under challenging conditions'.
- Thus, the correct answer is **Option 2.**

<u>Correct Sentence:</u>*Nature provides every creature **a chance to exist.***

---

96. Answer: b

Explanation:

The correct answer is **"The "**

⭐ <u>Key Points</u>

- **The** is an article and article means a word that comes before a noun to show if it's specific or general.
- *The* is used when a noun is already mentioned before, here monkey word has been mentioned before its specific role in the question.
- Here Monkey is Noun who is happy and*the* signifies that the reader is aware of the Noun and its activity.
  - **Example***The aeroplane flies high in the sky.*
  - ***Example:*** *They were playing with the ball.*
- *The answer is " <u>The </u>monkey was happy"*

---

97. Answer: d

Explanation:

The correct answer is **"couldn't "**

⭐ <u>Key Points</u>

- **Couldn't** is used to refer to impossible things that happened in the past/ past tense.
- In the complete sentence *was* is in simple past tense so other options in the given questions don't go with it.
- It can be seen that the sentence refers to Monkey's inability to swim so he became dependent on the Crocodile to meet his friend's wife.
  - **Example:** The monkey couldn't swim in the water but can jump from one tree to another.
- They couldn't go to school because of the road construction.
- The correct answer to this question is **"but <u>couldn't</u> swim, so the crocodile took"**

---

98. **Answer: c**

Explanation:

The correct answer is **"him"**

⭐ <u>Key Points</u>

- **Him** is the third person singular and refers to the male person or animal as the object of the preposition or the verb.
- The Animal has already been mentioned so no need to write Monkey once again that's why *him* is used in place of Monkey.
- *Him* is written instead of *he* because *him* is used when the person receives some action.

⭐ <u>Additional Information</u>

- Them is used for groups of people, or animals and is a third-person plural pronoun.
  - **Example:** Aisha fed the dogs and let them play in the park.
- **It** is a third-person singular pronoun used for both subject and object purposes.
  - **Example:** Be careful with the knife, it has sharp edges.
- **Her** is third person singular and used to refer to a female.
  - **Example:** Meet Neeta, her eyes are so beautiful.

- The final answer is **"so the crocodile took <u>him </u>on his back."**

---

99. **Answer: c**

Explanation:

The correct answer is "that"

⭐ <u>Key Points</u>

- The Clause *that* has been used which conveys what the subject is doing without any random act.
- The given passage delivers the message about the cunningness held behind the crocodile's intention.
- With the intention of dinner he called him and even carried him on his back.
- He was so happy that he wanted to trick the Monkey into a complex situation.
- The final answer is **"The crocodile was happy <u>that </u>he had tricked the monkey, however, while talking. "**

⭐ <u>Additional Information</u>

- **While** is a conjunction used to join two sentences of place, time and direction.
  - **Example:** She went to the zoo while he went to Shimla.
- **Whether** is used to answer yes or no type questions.
  - **Example:** He asked me whether I am happy or not.
- **Before:** Can be used as a conjunction, adverb and preposition.
  - **Example:** Think carefully before you speak. **(Conjunction).**
  - **Example:** She woke up before he could leave. **(Preposition).**
  - **Example:** I only met him once before. **(adverb)**

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100. **Answer: c**

Explanation:

The correct answer is **"Blurted"**

⭐ <u>Key Points</u>

- **Blurted** means to give sudden reactions due to nervousness like the Monkey, who came to know his friend's plan.
    - **Example:** He blurted after seeing an accident.
- The Monkey blurted after discovering the real reason, handled the crocodile in a witty manner that he left his heart and escaped from that place.

⭐ <u>Additional Information</u>

- Other options don't suit the scene faced by the monkey-like:
- **Announced** means giving a public statement.
    - **Example:** Principle announced a holiday today.
- **Talked** as we can see in the situation of Monkey, he won't talk in this drastic situation rather than escape.
- **Stated** means to express formally and in no mood, the monkey was there to state with the crocodile formally.