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 (02-Dec-2021) (Shift 2)

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

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence 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. In the following diagram, the hexagon stands for 'boys', the rectangle stands for 'sportspersons', and the triangle stands for 'musicians'. The letters given in the different segments represent persons belonging to that category.

   (+1, −0.25)
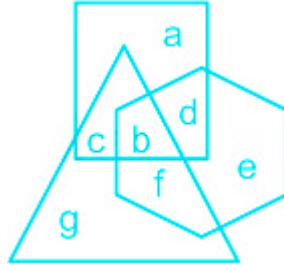
   Which category is represented by the letter 'f'?

   a. Musicians who are boys and sportspersons both

   b. Boys who are musicians but not sportspersons

   c. Boys who are sportspersons but not musicians

   d. Sportspersons who are musicians but not boys

2. 'Europe' is related to 'Switzerland' in the same way as 'Asia' is related to '_ _ _ _ _ _ _'.

   (+1, −0.25)

   a. France

   b. Japan

   c. Continent

   d. World

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

(+1, -0.25)

Statements:

Some bolts are pens.

Some stencils are bolts.

All screws are bolts.

Conclusions:

I. No screw is a stencil.

II. Some pens are stencils.

a. Only conclusion II follows

b. Both conclusions I and II follow

c. Neither conclusion I nor II follows

d. Only conclusion I follows

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

(+1, -0.25)

53, 61, 88, 152, 277, ?

a. 485

b. 496

c. 493

d. 490

---

5. Eight friends are sitting in 2 rows facing each other. A is sitting opposite to D and is a neighbour of B and E. H and C are sitting at the right-most corners and E and F are sitting at the left-most corners of their respective rows. If G is sitting next to F, then who is sitting opposite to B?

(+1, -0.25)

a. H

b. F

c. G

d. C

---

6. C bought a machine from B, who bought it from A. C bought the machine for ₹ 9,360. A and B earned profits of 30% and 20%, respectively, on this sale. At what price did A sell the machine?

(+1, -0.25)

a. ₹ 6,000

b. ₹ 8,200

c. ₹ 7,800

d. ₹ 8,600

---

7. 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. BXEV

b. HDKF

  c. RNUP

  d. TPWR

---

8. Select the option in which the numbers are related in the same way as are the numbers in the given set.   **(+1, −0.25)**

   36, 74, 55

   a. 50, 44, 94

   b. 80, 105, 85

   c. 40, 52, 46

   d. 58, 64, 54

---

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

   AFHP : BINZ :: BZKS : ?
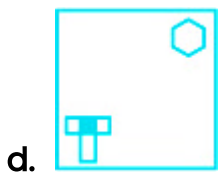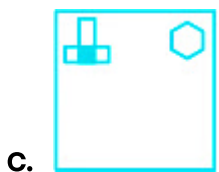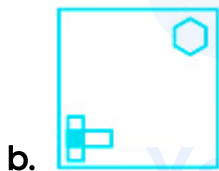
   a. CBRC

   b. CCQC

   c. CCRC

   d. CBQC

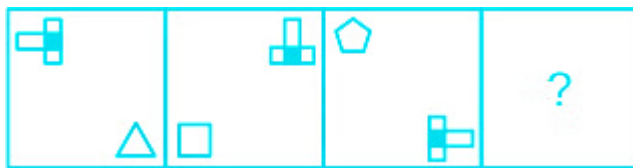
10. Select the number from among the given options that can replace the question mark (?) in the following series.   **(+1, −0.25)**

    11, 9, 15, 41, ?

a. 135

b. 159

c. 167

d. 110

---

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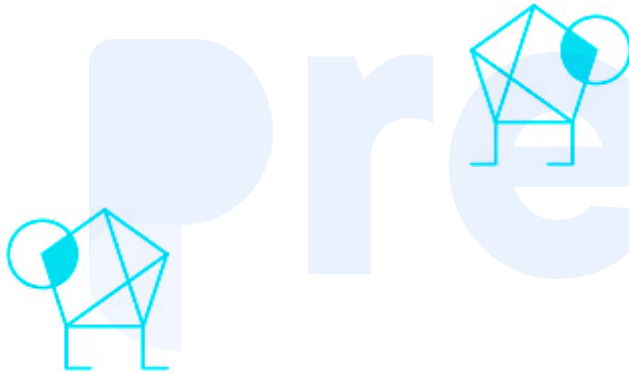
(+1, -0.25)

a.

b.

c.

d.

---

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

(+1, -0.25)

AZK, EVN, IRQ, OLT, ?

a. UFW

b. URD

c. TFQ

d. GKS

---

13. Select the correct mirror image of the given figure when the mirror is placed at the right side. (+1, −0.25)

a.

b.

c.

d.

---

14. 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. Rubric

2. Router

3. Ruthless

4. Routine

5. Ruin

a. 2, 1, 4, 5, 3

b. 2, 4, 1, 3, 5

c. 2, 4, 1, 5, 3

d. 4, 2, 1, 5, 3

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

$13 + 18 \times 6 - 30 \div 6 = -90$

a. −, ÷

b. ×, ÷

c. +, −

d. +, ×

16. A dice (x) is rotated three times in similar manner. Two of its positions (x.1 and x.2) are given. Select the next possible position from the following (+1, −0.25)

options.

x   x.1   x.2

a.

b.

c.

d.

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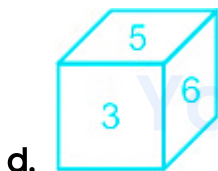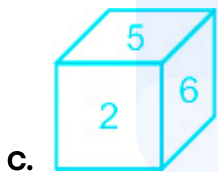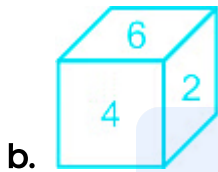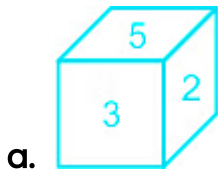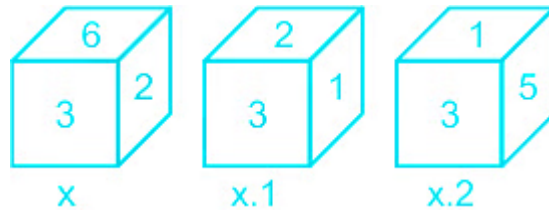
17. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.   (+1, -0.25)

Q _ P _ M _ A _ T _ Q A _ T M

a. A T Q P M Q

b. A T Q P Q P

c. A T Q P M P

d. A Q T P M P

---

18. If 'N' is the wife of 'M', 'A' is the sister of 'R', 'S' is the mother of 'N', 'K' is the brother of 'M' and 'R' is the son of 'N', then how is 'K' related to 'A'? **(+1, -0.25)**

    a. Brother

    b. Paternal uncle

    c. Father

    d. Maternal uncle

---

19. In a certain code language, NEXT is written as MODFWYSU. How will CLOCK be written in that language? **(+1, -0.25)**

    a. BDKMNPBEML

    b. BDKMNPBDJL

    c. BDKMNPBDLM

    d. BDKPQPBDJL

---

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

a.

b.

c.

d.

---
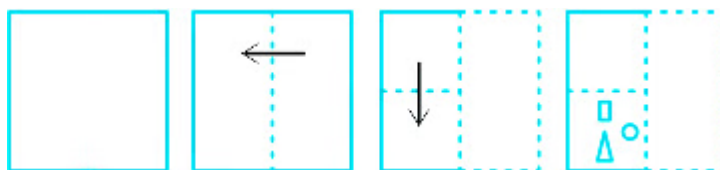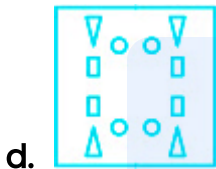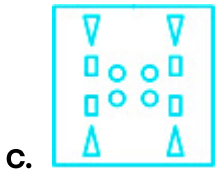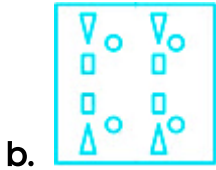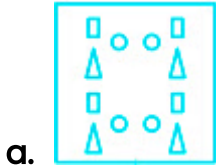
21. Select the option in which the given figure is embedded (rotation is NOT allowed).

(+1, −0.25)

a.

b.

c.

d.

---

22. In a certain code language, 'SWEETS' is written as 'TZKOIN'. How will 'CHOICE' be written in that language? **(+1, –0.25)**

   a. DKUSRZ

   b. DKURSZ

   c. DJUSRZ

   d. DJURSZ

---

23. Akram, Nagesh, Girish, Vikram and Satpal are sitting at the five corners of a pentagon shaped table; all are facing the centre of the table. Girish is third to the left of Vikram. Satpal is to the immediate left of Nagesh. Akram is second to the left of Satpal. Who is sitting second to the right of Nagesh? **(+1, –0.25)**

a. Vikram

b. Akram

c. Satpal

d. Girish

---

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

13 : 163 : : 11 : ? : : 9 : 75

a. 128

b. 121

c. 125

d. 115

---

25. In a certain code language, SHEER is coded as 21102220 and NIGHT is coded as 16391022. How will RIGHT be coded as in that language?   (+1, -0.25)

a. 191191022

b. 20391022

c. 19391022

d. 201191022

General Knowledge and General Awareness

26. On which organ of the human body are adrenal glands located?   (+1, -0.25)

   a. Heart

   b. Kidneys

   c. Lungs

   d. Liver

27. Which planet is ISRO's proposed 'Shukrayaan' mission due to study?   (+1, -0.25)

   a. Jupiter

   b. Mercury

   c. Mars

   d. Venus

28. In September 2021, Chandigarh became the _ _ _ _ _ _ railway station in India to be awarded a 5-star 'Eat Right Station' certification by the Food Safety and Standards Authority of India (FSSAI).   (+1, -0.25)

   a. tenth

   b. fourth

   c. seventh

   d. fifth

29. In which year did the Mughal emperor Shah Alam II issued a farman   (+1, -0.25)
granting Diwani of Bengal, Bihar and Odisha to the East India Company?

    a. 1732

    b. 1765

    c. 1756

    d. 1740

---

30. Mahesh Das from Akbar's court was popularly known as _ _ _ _ _ _.   (+1, -0.25)

    a. Raja Man Singh

    b. Raja Todar Mal

    c. Tansen

    d. Birbal

---

31. Which Indian cricketer announced his retirement from all forms of cricket   (+1, -0.25)
in December 2020?

    a. Sudeep Tyagi

    b. MS Dhoni

    c. Parthiv Patel

    d. Suresh Raina

---

32. Where is the ancient temple devoted to Bhima Devi located?   (+1, -0.25)

a. Thanjavur, Tamil Nadu

b. Pinjore, Haryana

c. Kausani, Uttarakhand

d. Dharamshala, Himachal Pradesh

---

33. The 'Great Bath' of Mohenjodaro was made water-tight with a layer of _____.   (+1, −0.25)

a. bitumen

b. natural tar

c. asphalt

d. beeswax

---

34. The Economic Survey of India 2019-20 introduced the idea of _____   (+1, −0.25)
as a public good, that could be enhanced with greater use.

a. generosity

b. loyalty

c. liberty

d. trust

---

35. How many images will be formed if the light is reflected from two mirrors   (+1, −0.25)
facing each other?

a. Two images

b. Single image

c. No image

d. Infinite images

---

36. The Olympic rings were publicly presented for the first time in: **(+1, −0.25)**

a. 1937

b. 1933

c. 1917

d. 1913

---

37. Who among the following won the UK children's book award in January 2020? **(+1, −0.25)**

a. Jhumpa Lahiri

b. Jasbinder Bilan

c. Anita Desai

d. Arundhati Roy

---

38. As per the biennial 'India State of Forest Report (ISFR)' 2019, in terms of forest cover as a percentage of total geographical area, which of the following states is NOT among the top five states of India? **(+1, −0.25)**

a. Meghalaya

b. Mizoram

c. Arunachal Pradesh

d. Madhya Pradesh

---

39. The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel 2020 was awarded jointly to: (+1, −0.25)

a. Angus Deaton and Robert J Shiller

b. Paul R Milgrom and Robert B Wilson

c. Esther Duflo and Michael Kremer

d. Paul M Romer and Richard H Thaler

---

40. What is the main criterion used by the World Bank in classifying different countries?   (+1, −0.25)

a. Gross National Income

b. Gross National Product

c. Per Capita Income

d. Gross Domestic Product

---

41. Which Article of the Constitution of India describes the roles and responsibilities of the Council of Ministers in the Indian Parliament?   (+1, −0.25)

a. Article 74

b. Article 62

c. Article 54

d. Article 81

---

42. Receivables Exchange of India Ltd (RXIL) was incorporated in 2016 as a joint venture between Small Industries Development Bank of India (SIDBI) and the _ _ _ _ _ _.

(+1, -0.25)

    a. United Stock Exchange of India

    b. National Stock Exchange of India Limited

    c. Calcutta Stock Exchange

    d. Bombay Stock Exchange

---

43. Which of the following sea ports is NOT located in the Indian Ocean?

(+1, -0.25)

    a. Chennai (India)

    b. Melbourne (Australia)

    c. Manila (Philippines)

    d. Jakarta (Indonesia)

---

44. Which of the following islands is a UNESCO world heritage site that has a collection of cave temples predominantly dedicated to the Hindu god Shiva?

(+1, -0.25)

    a. Ambu Island

    b. Elephanta Island

    c. Cross Island

    d. Khanderi Island

---

45. Under which rule of Procedure and Conduct of Business in the Council of   **(+1, -0.25)**
States (Rajya Sabha) does the Chairman of the Rajya Sabha nominate
six members on the panel of Vice-Chairmen, one of whom presides over
the House in the absence of both, the Chairman and the Deputy
Chairman?

    a. Rule 8

    b. Rule 12

    c. Rule 10

    d. Rule 6

---

46. The disease scrub typhus is caused by a type of _ _ _ _ _ _.   **(+1, -0.25)**

    a. alga

    b. fungus

    c. virus

    d. bacterium

---

47. In which state of India did the Manikya dynasty rule?   **(+1, -0.25)**

    a. Gujarat

    b. Rajasthan

    c. Manipur

d. Tripura

---

48. Who among the following is an architect credited with planning and designing major parts of New Delhi's buildings during the British period? (+1, -0.25)

a. Frank Lloyd Wright

b. Le Corbusier

c. Edwin Lutyens

d. Sir Christopher Wren

---

49. Who among the following received the International Gandhi Awards for Leprosy in the individual category on 6 February 2020? (+1, -0.25)

a. Dr. Priyamvada Chugh

b. Dr. GP Talwar

c. Dr. NS Dharmashaktu

d. Dr. Renuka Ramakrishnan

---

50. Who among the following is a professional billiards player? (+1, -0.25)

a. Krishan Pathak

b. Deepak Punia

c. Bhakti Sharma

d. Pankaj Advani

Elementary Mathematics

51. What is the single discount equivalent to a series of discounts of 40% and 20%? **(+1, −0.25)**

    a. 48%

    b. 60%

    c. 52%

    d. 30%

---

52. The expenditure of Renu is 120% more than her savings. If her income and expenditure increase by 25% and 30%, respectively, then her savings increase by: **(+1, −0.25)**

    a. 16%

    b. 15%

    c. 14%

    d. 12%

---

53. A trader has 80 kg rice, a part of which he sells at 15% profit and the rest at 5% loss. He gains 12% on the whole. What is the quantity of rice (in kg) sold at 15% profit? **(+1, −0.25)**

    a. 56

    b. 40

    c. 68

d. 48

---

54. A person invested a certain sum at a rate of 5% per annum on simple interest (SI) for 2 years, while another person invested the same sum for the same period at a compound interest rate of 4% per annum. The interest at the SI rate is ₹ 184.00 more than that at the compound interest rate. The sum invested is: **(+1, −0.25)**

    a. ₹ 8,500

    b. ₹ 10,000

    c. ₹ 8,000

    d. ₹ 7,500

---

55. The LCM and HCF of two numbers are 3564 and 81, respectively. If the numbers are 324 and x, then what is the sum of the digits of x? **(+1, −0.25)**

    a. 18

    b. 13

    c. 19

    d. 17

---

56. Radha who is half as efficient as Kirti, will take 30 days to complete a task if she works alone. If Radha and Kirti work together, how long will they take to complete the task? **(+1, −0.25)**

    a. 20 days

    b. 10 days

c. 12 days

d. 15 days

---

57. A boat running downstream covers a distance of 12 km in 30 minutes and while running upstream at the same speed, it covers the same distance in 36 minutes. What is the speed (in km/h) of the boat in still water? **(+1, −0.25)**

a. 22

b. 24

c. 23

d. 20

---

58. A person borrows a sum of ₹ 50,000 for 3 years at 4% p.a. simple interest. He immediately lends it to another person at $6\frac{1}{4}\%$ p.a. simple interest for 3 years. Find his gain in the transaction per year. **(+1, −0.25)**

a. ₹ 1,125

b. ₹ 1,135

c. ₹ 1,122

d. ₹ 1,025

---

59. The average of eight consecutive even numbers is 65. If the next four consecutive even numbers are included, then what is the average of all the numbers? **(+1, −0.25)**

a. 68

b. 69

c. 67

d. 70

---

60. The curved surface area of a cone is $25\sqrt{2}\pi$ cm ^{2}. If the height of the **(+1, -0.25)**
cone is equal to the radius of its base, then what is the volume (in cm ^{3})
of the cone? $\left(\text{Use } \pi = \frac{22}{7}\right)$ correct to two decimal places.

a. 140

b. 132.75

c. 130.95

d. 124.85

---

61. A man can row at 9 km/h in still water. It takes him equal time to go 33 km **(+1, -0.25)**
downstream and to go 21 km upstream. Find the speed of the stream (in
km/h).

a. 2

b. 2.2

c. 1.6

d. 2.5

---

62. A sport store offers 19% discount on its articles and it offers a further **(+1, -0.25)**
discount of 2% on the reduced price to those customers who pay by
online wallet. If a customer purchase sports items worth ₹ 18000 and

pays through an online wallet then the amount (in ₹) to be paid by the customer is:

a. 12897.60

b. 16738.95

c. 14288.40

d. 15000

---

63. A certain sum amounts to ₹ 7485 after 3 years and to ₹ 9960 after 8 years at the same rate per cent per annum at simple interest. On simple interest, what will be the amount (in ₹) of the same sum after 7 years at double the earlier rate of interest? (+1, -0.25)

a. 12930

b. 14735

c. 9465

d. 11145

---

64. An article is purchased for ₹350 and sold for ₹500. Find the gain percentage (correct to two decimal places). (+1, -0.25)

a. 42.67

b. 46.56

c. 42.86

d. 43.86

---

65. Four birds A, B, C, D fly along the circumference of a jungle. They complete one round in 27 minutes, 30 minutes, 45 minutes and 60 minutes, respectively. Since they start together, when will they meet again (in hours) at the starting position?   **(+1, −0.25)**

  a. 8

  b. 10

  c. 12

  d. 9

66. 12 persons can dig a trench 20 m in length in 8 days. The number of persons required to dig a 30 m trench of the same width and depth in 6 days, is: **(+1, −0.25)**

  a. 24

  b. 16

  c. 18

  d. 20

67. The area of a square inscribed in a circle, whose diagonal is 16 cm, is: **(+1, −0.25)**

  a. 256 cm^2

  b. 64 × $\sqrt{2}$cm^2

  c. 64 cm^2

  d. 128 cm^2

68. The average age of the boys participating in a camp is 16 years and that of the girls is 13 years. If the ratio of the number of boys and girls participating in the camp is 2 : 3, then what is the average age (in years) of all the participants? **(+1, -0.25)**

    a. 14.0

    b. 14.5

    c. 14.2

    d. 15.1

69. Ramesh invested 30% more than Suresh. Suresh invested 40% less than Arun who invested Rs. 8,000. Find the difference in the amounts (in Rs.) invested by Ramesh and Suresh. **(+1, -0.25)**

    a. 3,200

    b. 1,760

    c. 1,440

    d. 1,200

70. The value of $[(102 - 16 \div 8) - 2] \div [3 + 6 \times (5 + 4) \div 3 - 7]$ is: **(+1, -0.25)**

    a. 7

    b. 9

    c. 8

    d. 6

71. If the loss incurred in a transaction is $\frac{1}{5}$ of the selling price, then the loss percentage will be closest to: **(+1, –0.25)**

    a. 16.91

    b. 16.67

    c. 16.0

    d. 15.67

72. Simplify the expression $\dfrac{21 + (-18) \times 2 - [-4 + 15\{5 \div (4 - 7)\} \div 4(-5)]}{(-14) \times (2) + 7}$. **(+1, –0.25)**

    a. $\frac{7}{20}$

    b. $-\frac{5}{12}$

    c. $\frac{7}{12}$

    d. $3\frac{8}{21}$

73. A sum of ₹ 159250 is divided among A, B, C, and D such that the ratio of the shares of A and B is 1 : 3, that of B and C is 2 : 5, and that of C and D is 2 : 3. The share (in ₹) of A is: **(+1, –0.25)**

    a. 21000

    b. 8750

    c. 10500

    d. 7000

74. 10 women can complete a work in 15 days. The same work can be completed in 5 days by 15 men. 10 women started the work and after 3 days, 5 men replaced 5 women. In how many days will the work be completed?   (+1, -0.25)

    a. 11

    b. 10

    c. 8

    d. 12

75. In an examination, a student requires 35% marks to pass. If Sunita gets 145 marks and fails by 23 marks, then what are the maximum marks of the examination?   (+1, -0.25)

    a. 520

    b. 168

    c. 480

    d. 500

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

A can of worms

    a. A plan kept back to be used later

    b. A difficult person to deal with

    c. A good source of money

    d. A complicated situation or problem

---

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

An event causing great and sudden damage or suffering

    a. Emergency

    b. Adventure

    c. Termination

    d. Catastrophe

---

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

Eliminate

    a. Lighten

    b. Include

    c. Darken

d. Exclude

---

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

Bleak

a. Cold

b. Bright

c. Dark

d. Grim

---

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

Words such as articles and pronouns can be _ _ _ _ _ _ unless they are necessary.

a. disbarred

b. disrupted

c. dispelled

d. dropped

---

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

a. Calamity

b. Affliction

c. Casulty

d. Disaster

---

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

If he likes this house, he will buy it.

a. No substitution required

b. If he had liked

c. If he like

d. If he is liking

---

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

Malice

a. Kindness

b. Bitterness

c. Hatred

d. Grudge

---

84. 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 a snake

a. Coo

b. Moo

c. Hiss

d. Buzz

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

The pilot / follow another airplane / as he had lost / his way in the storm.

a. follow another airplane

b. as he had lost

c. his way in the storm

d. The pilot

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

He was _ _ _ _ _ _ to get a good job as soon as he was out of college.

a. fortunate

b. intelligent

c. favoured

d. wise

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

Yesterday, it was <u>raining heavy</u> when I met him at the station.

a. heavy rain

b. raining heavily

c. No substitution required

d. rained heavily

---

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

The prisoners are kept inside / most of the time / but they are let them out / for an hour every day.

a. The prisoners are kept inside

b. but they are let them out

c. most of the time

d. for an hour every day

---

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

Execute

a. Organise

b. Destroy

c. Employ

d. Implement

---

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

You will not / be able to / reach on time / while you hurry.

   a. reach on time

   b. while you hurry

   c. You will not

   d. be able to

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

Over and over again

   a. Start something new

   b. Do something repeatedly

   c. Work very hard

   d. End of something important

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

   a. Environmental

   b. Equipment

   c. Electrolite

   d. Experimental

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

Impossible to believe

a. Magic

b. Incredible

c. Fictitious

d. Implausible

---

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

Unless you study hard, <u>you will pass</u> the examination.

a. you not pass

b. you will not pass

c. No substitution required

d. you pass

---

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

My brother _ _ _ _ _ _ bought a new car.

a. freshly

b. shortly

c. exactly

d. recently

---

96. 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.

Acupuncture, a system of treatment of diseases, has been practiced (1)
_ _ _ _ _ _ China for nearly five thousand years. It consists of rapid (2)
_ _ _ _ _ _ of fine steel needles, about 6 cm long, in particular (3) _ _ _ _ _ _
on the body of the patient. After this, the doctor twirls the needle (4)
_ _ _ _ _ _ his thumb and forefinger. When a puncture is made on a spot
on the body, energy (5) _ _ _ _ _ _ from there along lines known as
"meridians" to the diseased organs.

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

    a. for

    b. about

    c. in

    d. on

---

97. 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.

Acupuncture, a system of treatment of diseases, has been practiced (1)
_ _ _ _ _ _ China for nearly five thousand years. It consists of rapid (2)
_ _ _ _ _ _ of fine steel needles, about 6 cm long, in particular (3) _ _ _ _ _ _
on the body of the patient. After this, the doctor twirls the needle (4)
_ _ _ _ _ _ his thumb and forefinger. When a puncture is made on a spot

on the body, energy (5) _ _ _ _ _ _ from there along lines known as "meridians" to the diseased organs.

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

a. position

b. manipulation

c. insertion

d. perfection

---

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)

Acupuncture, a system of treatment of diseases, has been practiced (1) _ _ _ _ _ _ China for nearly five thousand years. It consists of rapid (2) _ _ _ _ _ _ of fine steel needles, about 6 cm long, in particular (3) _ _ _ _ _ _ on the body of the patient. After this, the doctor twirls the needle (4) _ _ _ _ _ _ his thumb and forefinger. When a puncture is made on a spot on the body, energy (5) _ _ _ _ _ _ from there along lines known as "meridians" to the diseased organs.

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

a. regions

b. fields

c. design

d. spots

---

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.

Acupuncture, a system of treatment of diseases, has been practiced (1)
＿＿＿＿＿＿ China for nearly five thousand years. It consists of rapid (2)
＿＿＿＿＿＿ of fine steel needles, about 6 cm long, in particular (3) ＿＿＿＿＿＿
on the body of the patient. After this, the doctor twirls the needle (4)
＿＿＿＿＿＿ his thumb and forefinger. When a puncture is made on a spot
on the body, energy (5) ＿＿＿＿＿＿ from there along lines known as
"meridians" to the diseased organs.

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

   a. across

   b. through

   c. among

   d. between

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.

Acupuncture, a system of treatment of diseases, has been practiced (1)
＿＿＿＿＿＿ China for nearly five thousand years. It consists of rapid (2)
＿＿＿＿＿＿ of fine steel needles, about 6 cm long, in particular (3) ＿＿＿＿＿＿
on the body of the patient. After this, the doctor twirls the needle (4)
＿＿＿＿＿＿ his thumb and forefinger. When a puncture is made on a spot
on the body, energy (5) ＿＿＿＿＿＿ from there along lines known as
"meridians" to the diseased organs.

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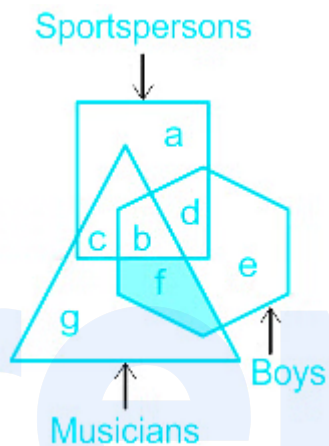
a. results

b. blushes

c. flows

d. substitutes

Answers

1. Answer: b

Explanation:

The c ategory represented by the letter 'f' is shown below:

1. Musicians who are boys and sportspersons both → b
2. **Boys who are musicians but not sportspersons → f**
3. Boys who are sportspersons but not musicians → d
4. Sportspersons who are musicians but not boys → c

Hence, '**Boys who are musicians but not sportspersons**' is the correct answer.

---

2. Answer: b

Explanation:

The logic followed here is:

- 'Europe' is related to 'Switzerland' → **Switzerland** is a mountainous Central **European** country.
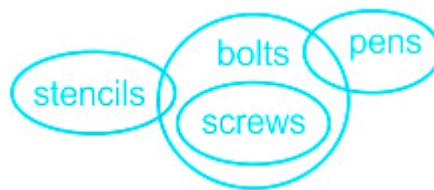
Similarly,

- 'Asia' is related to '_ _ _ _ _ _ _' → **Japan** is an island country in East **Asia** .

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

---

3. Answer: c

Explanation:

The least possible Venn diagram is:

Conclusions:

I. No screw is a stencil. → Do not follow (As, there is no definite relation between screw and stencil. Hence, false)

II. Some pens are stencils. → Do not follow (As, there is no definite relation between pen and stencil. Hence, false)

Hence, **Neither conclusion I nor II follows** .

---

4. Answer: c

Explanation:

The logic followed here is:

$53 + 2^3 = 53 + 8 = 61$

$61 + 3^3 = 61 + 27 = 88$

$88 + 4^3 = 88 + 64 = 152$

152 + 5 3 = 152 + 125 = 277

277 + 6 3 = 277 + 216 = 493

Hence, ' **493** ' is the correct answer.
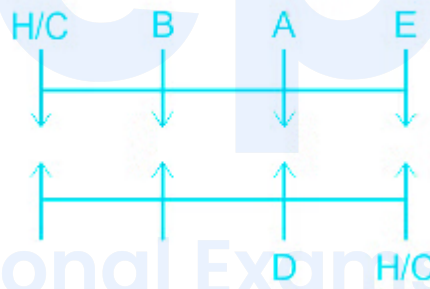

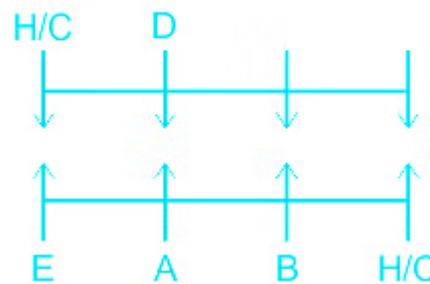5. **Answer: c**

Explanation:

Eight friends are sitting in 2 rows facing each other.

1. A is sitting opposite to D and is a neighbour of B and E.

2. H and C are sitting at the right-most corners and E and F are sitting at the left-most corners of their respective rows.

3. If G is sitting next to F.

Case I:
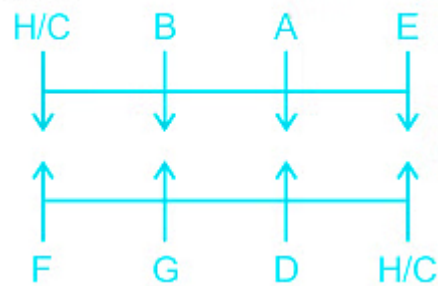
Case II:
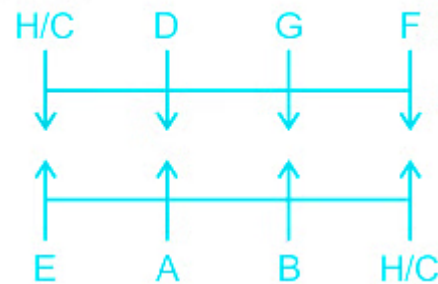
Clearly, G is sitting opposite to B.

Hence ' **G**' is the correct answer.

6. **Answer: c**

Explanation:

Let us assume that the original price of the machine be Rs. x

A sold the machine to B at = Rs. (130/100) × x

And B sold the machine to C at = Rs. (120/100) × (130/100) × x

According to question:

(120/100) × (130/100) × x = 9360

⇒ x = (9360 × 130 × 120) ÷ (100 × 100)

⇒ x = 6000

The price at which A sell the machine = Rs. (130/100) × 6000 = Rs. 7800

Hence, '₹ 7,800' is the correct answer.

---

7. **Answer: a**

Explanation:

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

The logic followed here is:

Logic: 1st letter + 3 = 3rd letter; 2nd letter + 2 = 4th letter

1. **BXEV → B + 3 = E; X − 2 = V**
2. HDKF → H +3 = K; D + 2 = F
3. RNUP → R + 3 = U; N + 2 = P
4. TPWR → T + 3 = W; P + 2 = R

Hence, '**BXEV**' is the odd one out.

---

8. **Answer: c**

Explanation:

- The logic followed here is:
- 36, 74, 55 → (36 + 74) ÷ 2 = 110 ÷ 2 = 55

Similarly,

- 40, 52, 46 → (40 + 52) ÷ 2 = 92 ÷ 2 = 46

Hence, '**40, 52, 46**' is the correct answer.

9. 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:

$$A \xrightarrow{+1} B \quad F \xrightarrow{+3} I \quad H \xrightarrow{+6} N \quad P \xrightarrow{+10} Z$$

Similarly,

$$B \xrightarrow{+1} C \quad Z \xrightarrow{+3} C \quad K \xrightarrow{+6} Q \quad S \xrightarrow{+10} C$$
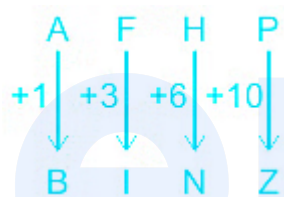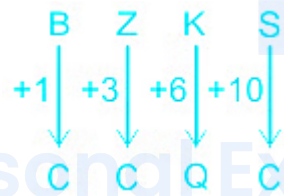
Hence, '**CCQC**' is the correct answer.

10. Answer: b

Explanation:

The logic followed here is:

$11 \times 1 - 2 = 11 - 2 = 9$

$9 \times 2 - 3 = 18 - 3 = 15$

15 × 3 − 4 = 45 − 4 = 41

41 × 4 − 5 = 164 − 5 = 159

Hence, ' **159** ' is the correct answer.

---

11. Answer: d

Explanation:

The figure from among the given options that can replace the question mark (?) in the following series is shown below:

As we move along the series, we see that the figure with boxes is itself rotating in 90° clockwise direction and changing its position by moving in clockwise direction.

The number of sides in the polygon in increasing by 1 and the polygon is changing its position by moving in anti-clockwise direction.

Hence, ' **option 4** ' is the correct answer.

---

12. Answer: a

Explanation:

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

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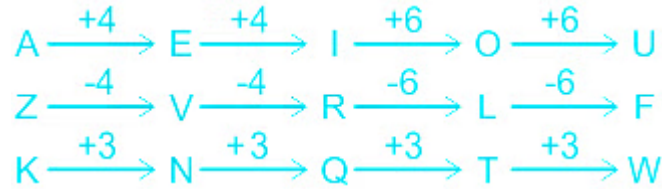
Hence, '**UFW**' is the correct answer.

---

13. Answer: a

Explanation:

The correct mirror image of the given figure when the mirror is placed at the right side is shown below:
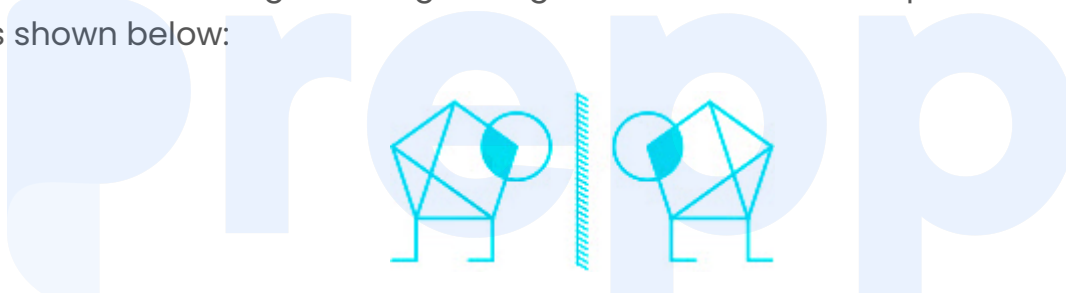
Hence, ' **option 1** ' is the correct answer.

---

14. 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. **Route** r

4. **Routi** ne

1. **Rub** ric

5. **Rui** n

3. **Rut** hless

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

---

15. **Answer: c**

Explanation:

Given equation: 13 + 18 × 6 − 30 ÷ 6 = −90

After interchanging the signs, we get:

1. −, ÷

13 + 18 ×<u>6 ÷ 30</u>− 6 = −90

⇒ 13 +<u>18 × 0.2</u> − 6 = −90

⇒ <u>13 + 3.6</u> − 6 = −90

⇒ 16.6 − 6 = −90

⇒ 10.6 ≠ −90

2. ×, ÷

13 +<u>18 ÷ 6</u>− 30 × 6 = −90

⇒ 13 + 3 −<u>30 × 6</u>= −90

⇒<u>13 + 3</u>− 180 = −90

⇒ 16 − 180 = −90

⇒ −164 ≠ −90

3. +, −

$13 - 18 \times 6 + \underline{30 \div 6} = -90$

$\Rightarrow 13 - \underline{18 \times 6} + 5 = -90$

$\Rightarrow \underline{13} - 108 \underline{+ 5} = -90$

$\Rightarrow 18 - 108 = -90$

$\Rightarrow -90 = -90$

4. $+, \times$

$13 \times 18 + 6 - \underline{30 \div 6} = -90$

$\Rightarrow \underline{13 \times 18} + 6 - 5 = -90$

$\Rightarrow \underline{234 + 6} - 5 = -90$

$\Rightarrow 240 - 5 = -90$

$\Rightarrow 235 \neq -90$
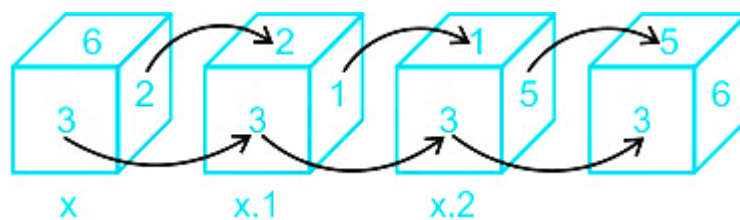
Hence, '**+, -**' is the correct answer.

16. **Answer: d**

Explanation:

A dice (x) is rotated three times in similar manner. Two of its positions (x.1 and x.2) are given. The next possible position from the following options is:

From dice x and x1, we get that 6 and 1 are opposite faces.

From dice x1 and x2, we get that 2 and 5 are opposite faces.

Remaining faces 4 and 3 will be opposite, to each other.

So, next dice must have either 6 or 1 at the right hand side position.

As in the options, we see only option 4 has 6 at the right hand side position with 3 at the front face and 5 at the top.

Hence, ' **option 4** ' is the correct answer.

---

17. **Answer: c**

Explanation:

Given sequence: Q _ P _ M _ A _ T _ Q A _ T M

1. A T Q P M Q → Q **A** P **T** M - **Q A P T M** - Q A **Q** T M
2. A T Q P Q P → Q A P T M - Q A P T Q - Q A P T M
3. A T Q P M P → Q A P T M - Q A P T M - Q A P T M
4. A Q T P M P → Q A P Q M - T A P T M - Q A P T M

- In option 3, QAPTM is repeated.

Hence, '**A T Q P M P**' is the correct answer.

---

18. **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
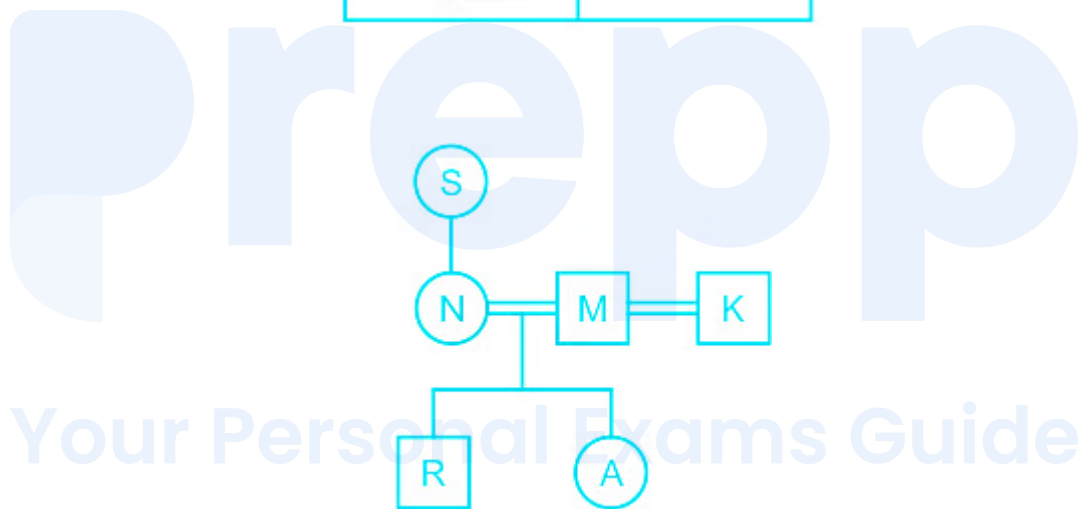
Clearly, K is the paternal uncle of A.

Hence, '**Paternal uncle**' is the correct answer.

---

19. **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:
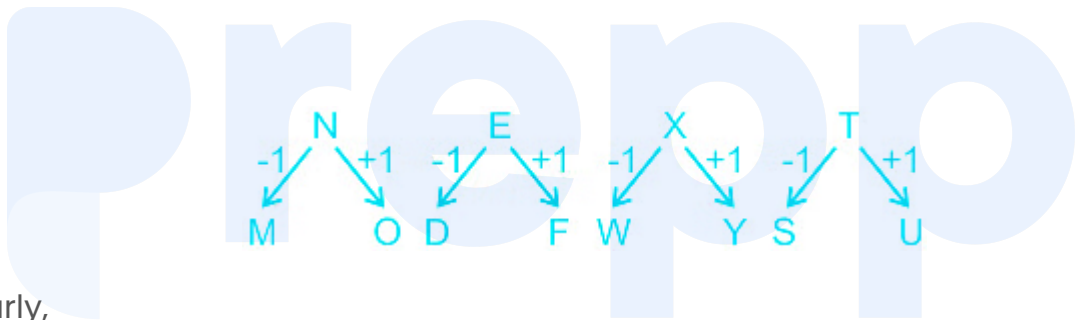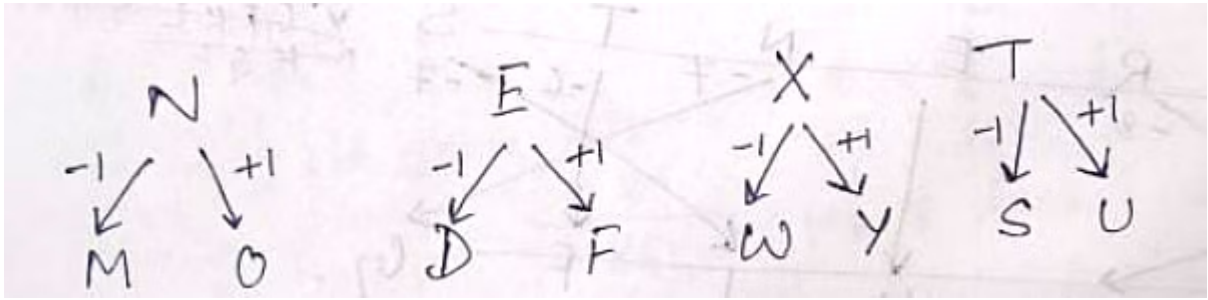
Similarly,
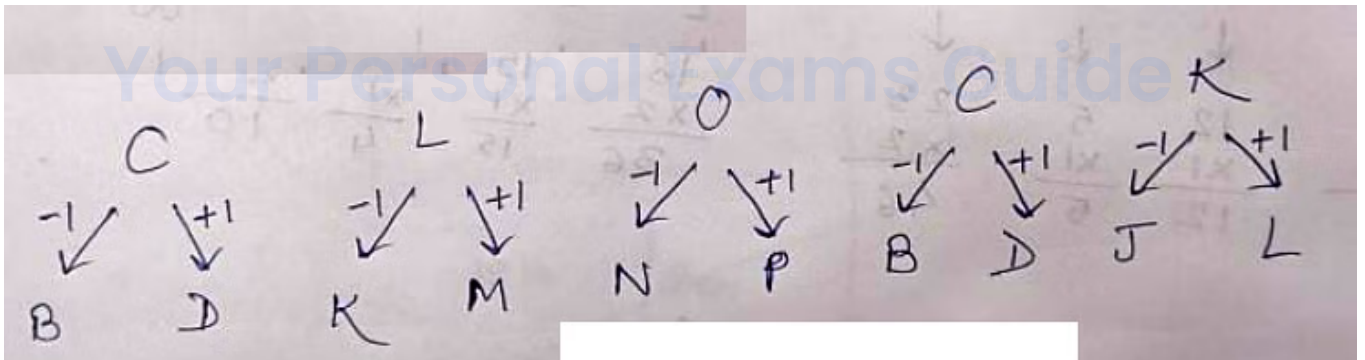
Hence, 'BDKMNPBDJL' is the correct answer.

20. **Answer: d**

    Explanation:

    The paper when unfolded will appear as shown below:

    Hence, ' **option 4** ' is the correct answer.

21. **Answer: b**

    Explanation:

    The image embedded in given figure is as shown below:
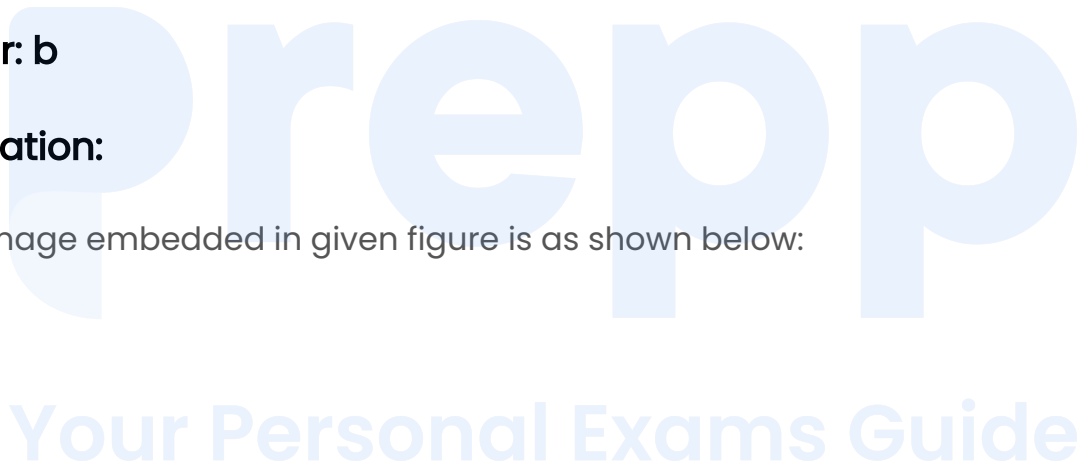
No.	Option	Question	Answer
1.			Not Embedded
2.			Embedded
3.			Not Embedded
4.			Not Embedded

Hence, ' option 2 ' is the correct answer.

---

22. **Answer: a**

Explanation:

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

The logic followed here is:

-
S   W   E   E   T   S

+1   +3   +6   +9   -11   -5

T   Z   K   O   I   N

Similarly,

-
C   H   O   I   C   E

+1   +3   +6   +9   -11   -5
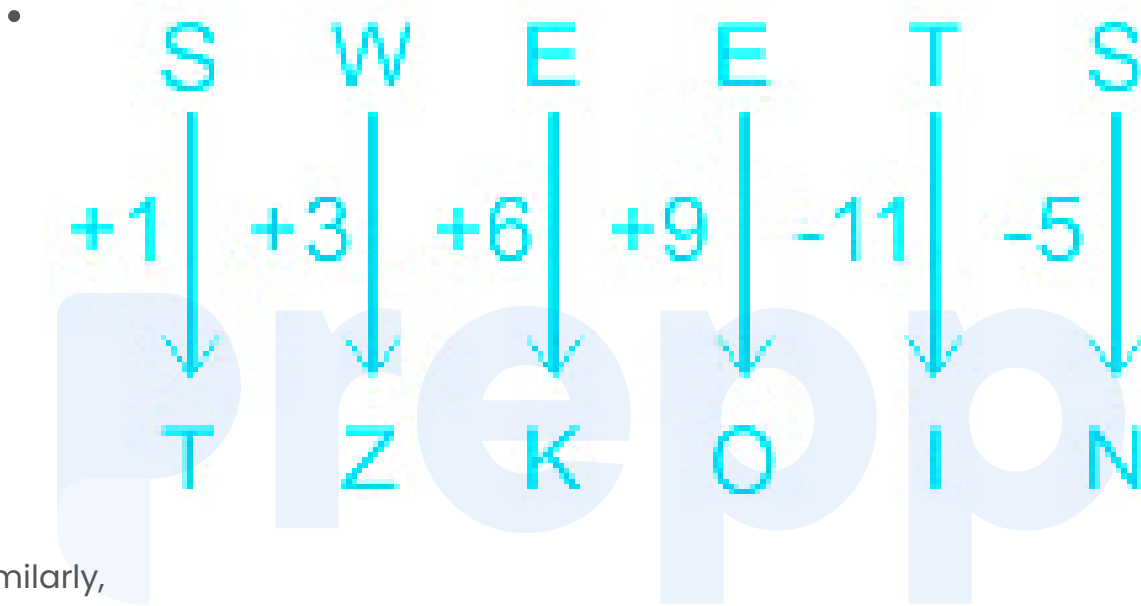
D   K   U   S   R   Z

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

23. **Answer: b**

Explanation:

Akram, Nagesh, Girish, Vikram and Satpal are sitting at the five corners of a pentagon shaped table; all are facing the centre of the table.

1. Satpal is to the immediate left of Nagesh.

2. Akram is second to the left of Satpal.
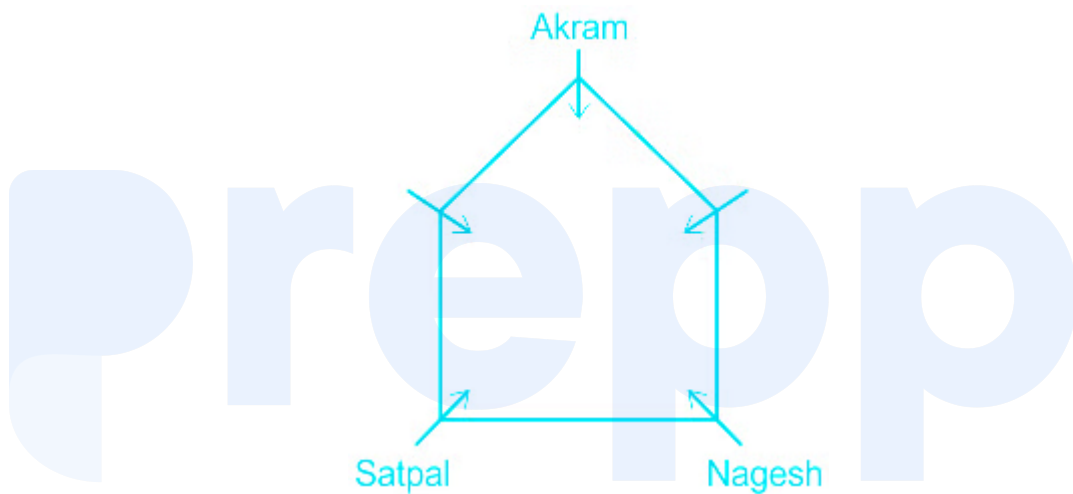
3. Girish is third to the left of Vikram.
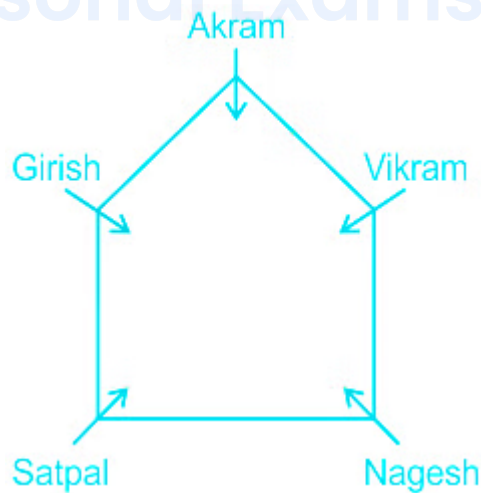
Akram is sitting second to the right of Nagesh.

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

---

24. Answer: d

Explanation:

The logic followed here is:

- $13 : 163 \rightarrow 13^2 - 6 = 169 - 6 = 163$
- $9 : 75 \rightarrow 9^2 - 6 = 81 - 6 = 75$

Similarly,

- $11 : ? \rightarrow 11^2 - 6 = 121 - 6 = 115$

Hence, '**115**' is the correct answer.

---

25. 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

Vowels are coded as:

A	E	I	O	U
1	2	3	4	5

The logic followed here is:

-

S	H	E	E	R
↓	↓	↓	↓	↓
19	8	2	2	18
+2	+2	↓	↓	+2
21	10	2	2	20

-

N	I	G	H	T
↓	↓	↓	↓	↓
14	3	7	8	20
+2	↓	+2	+2	+2
16	3	9	10	22

Similarly,

-

R	I	G	H	T
↓	↓	↓	↓	↓
18	3	7	8	20
+2	↓	+2	+2	+2
20	3	9	10	22
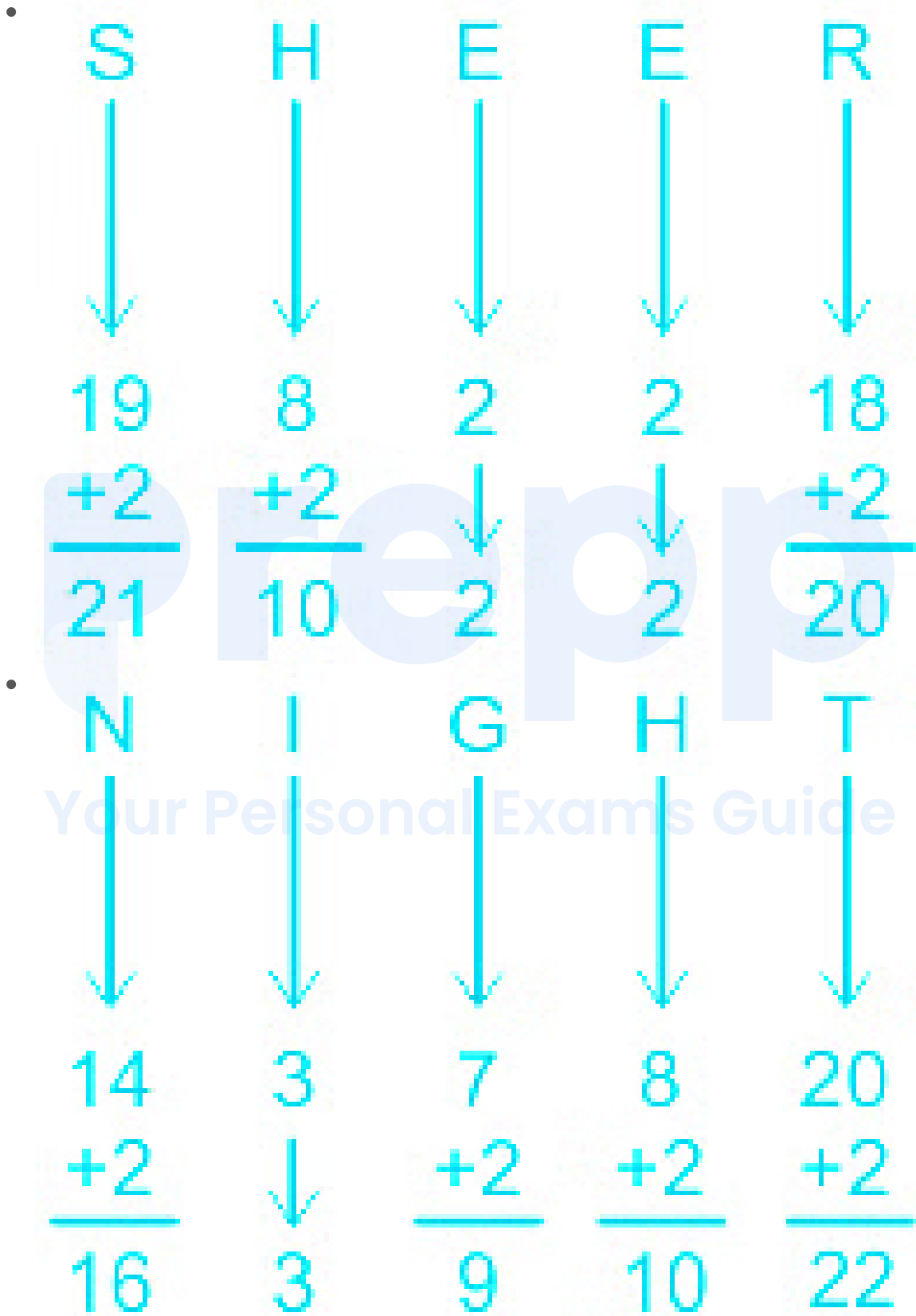
Hence, '**20391022**' is the correct answer.

---

26. **Answer: b**

Explanation:

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

⭐ <u>Key Points</u>

- **Adrenal glands** , also known as suprarenal glands, are small, triangular-shaped glands located on **top of both kidneys.**
- Adrenal glands produce hormones that help regulate your metabolism, immune system, blood pressure, response to stress and other essential functions.

⭐ <u>Additional Information</u>

Functions of Hormones

Glands	Hormones	Functions
Pituitary	Growth hormone	Regulates growth.
Thyroid	Thyroxine	Plays an important role in regulating weight, and body.
Parathyroid	Parathormone	Controls calcium balance.
Adrenal	Adrenaline	Prepares the body for an emergency.
Pancreas	Insulin	Controls glucose level.
Thymus	Thymosin	Growth of genitalia in childhood.
Testes	Testosterone	Growth of the male reproductive system.
Ovaries	Oestrogen, Progesterone	Growth of the female reproductive system.
Hypothalamus	Oxytocin	Oxytocin acts on the smooth muscles of our body and stimulates their contraction. In females, it stimulates a vigorous contraction of the uterus at the time of childbirth, and milk ejection from the mammary gland.

27. **Answer: d**

Explanation:

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

⭐ <u>Key Points</u>

- **Shukrayaan is mission to Venus** is to study the planet for more than four years to be launched either in 2024 or in 2026 during the optimal launch window which comes about every 19 months.
- Please note that the launching of the mission during the optimal launch window will minimize spacecraft fuel use during a planetary transit.
- ISRO has short-listed 20 space-based experiment proposals, for its proposed Venus orbiter mission 'Shukrayaan '.
- The possible detection of phosphine in Venus' upper atmosphere shows prospects of life there.
- 20 proposals were received, including collaborative contributions from Russia, France, Sweden, and Germany for the mission.
- The scientific objectives of the mission:
    - Investigation of the surface processes and shallow subsurface stratigraphy.
    - Study solar wind interaction with Venusian Ionosphere.
    - Study the structure, composition, and dynamics of the planet's atmosphere.
- Synthetic aperture radar (SAR) will be used as an instrument to examine the Venusian surface.

---

28. **Answer: d**

Explanation:

The correct answer is **fifth .**

⭐ **Key Points**

- Railways' Chandigarh Railway Station has been awarded a 5-star 'Eat Right Station' certification for providing high-quality, nutritious food to passengers.
- This certification is granted by FSSAI to railway stations adhering to standard food storage and hygiene practices.
- The certification is awarded to railway stations that set benchmarks in providing safe and wholesome food to passengers.

⭐ **Important Points**

- The station is awarded a certificate upon a conclusion of an FSSAI-empanelled third-party audit agency with ratings from 1 to 5.
- The certification is part of the ' Eat Right India' movement- a large-scale effort by FSSAI to transform the country's food system to ensure safe, healthy and sustainable food for all Indians.
- Chandigarh Railway Station becomes the fifth station in India to get this recognition.

⭐ **Additional Information**

- The other railway stations with this certification include:
    1. Anand Vihar Terminal Railway Station (Delhi).
    2. Chhatrapati Shivaji Terminus (Mumbai).
    3. Mumbai Central Railway Station (Mumbai).
    4. Vadodara Railway Station.

29. **Answer: b**

Explanation:

The correct answer is 1765.

⭐ **Key Points**

- In 1765 Mughal emperor Shah Alam II issued a farman granting Diwani of Bengal, Bihar and Odisha to the East India Company.
- Shah Alam II agreed to Reside at Allahabad, to be ceded to him by the Nawab of Awadh, under the Company's protection.
    - Issue a Farman granting the Diwani of Bengal, Bihar and Orissa to the East India Company in lieu of an annual payment of Rs 26 lakh.
    - A provision of Rs 53 lakh to the Company in return for Nizamat functions (military defence, police, and administration of justice) of the said provinces.

⭐ <u>Additional Information</u>

- The Treaty of Allahabad, 1765:
    - Robert Clive concluded two important treaties at Allahabad in August 1765
    - With the Nawab of Awadh and,
    - With the Mughal Emperor, Shah Alam II. Nawab Shuja-ud-Daula agreed to:
    - Surrender Allahabad and Kara to Emperor Shah Alam II.
    - Pay Rs 50 lakh to the Company as war indemnity
    - Give Balwant Singh, Zamindar of Banaras, full possession of his estate.

---

30. Answer: d

Explanation:

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

⭐ <u>Key Points</u>

- The real name of Birbal was Mahesh Das .
- Mahesh Das was a skilled poet and is known for his charismatic wit and humour .
- Birbal was a trusty advisor.
- The Emperor conferred on him with the title Birbal.
- Stories of Akbar and Birbal are extremely popular in India.

⭐ <u>Additional Information</u>

Akbar (1542- 1605)

- He reigned from 1556 to 1605 .
- He defeated Hemu at the second battle of Panipat in 1556.
- He constructed Fatehpur Sikri and made it his capital in 1569.
- Buland Darwaza was constructed at the gate.
- He started a new religion Din-i Ilahi in 1582.

- o Bīrbal was the only Hindu follower of this religion.
- Abul Fazl wrote his biography titled Akbarnama .
- Nine of his courtiers were known as Navratnas .
  - o They were Todar Mal, Abul Fazal, Faizi, Birbal, Tansen, Abdur Rahim Khana-i-Khana, Mullah-do-Pyaza, Raja Man Singh, and Fakir Aziao-Din
- He married a Hindu princess Harka Bai who is commonly known as Jodha Bai.
- Akbar captured the historic fortress of Chitor in 1568.
- He abolished the pilgrimage tax by Hindus in 1563 .
- He also abolished the Jizyah tax in 1564 .
- He also introduced the Mansabdari System or the rank-holder system to organize the nobility and army.

---

31. Answer: c

Explanation:

The correct answer is <u>Parthiv Patel.</u>

⭐ <u>Important Points</u>

- Wicketkeeper-batsman Parthiv Patel has announced his retirement from all forms of cricket.
- Parthiv featured in 25 Tests, 38 ODIs and a couple of T20Is for India.
- In domestic cricket, he featured in 194 first-class matches for Gujarat.
- He broke into the Indian team in 2002 , becoming the youngest wicketkeeper in Tests, after making his debut at 17 years and 153 days.

⭐ <u>Additional Information</u>

- **Sudeep Tyagi** is an Indian former international cricketer.
  - o He is a right-arm fast-medium bowler and a right-handed lower-order batsman.
- **Mahendra Singh Dhoni** is an Indian former professional cricketer who was captain of the Indian national cricket team in limited-overs formats from 2007 to 2017 and in Test cricket from 2008 to 2014.
  - o He is a right-handed wicket-keeper batsman.

- **Suresh Raina** is a former Indian international cricketer. He occasionally served as stand-in captain for the Indian men's national cricket team during the absence of the main captain.

---

32. **Answer: b**

Explanation:

The correct answer is **Pinjore, Haryana.**

⭐ **Key Points**

- The ancient temple devoted to Bhima Devi located at **Pinjore, Haryana.**
- **Alexander Cunningham,** during his explorations in 1878-79, found in 27-line inscription of 10th century AD mentioning Panchapura from which modern name Pinjore is derived.
- The mention of Panchpura in the Handi stone inscriptions (1167 AD) also seem to refer to this place.
- The name Pinjore also appears to be based on the myth that the **Pandavas** had stayed here during the course of their exile.
- Later on, this place also came to be known as **Bhima Nagar** after a much revered local temple that came to be created at this ancient site.

⭐ **Additional Information**

Name of the Temple	Location of the temple
Bhima Devi Temple	Pinjore
Mansa Devi Temple	Manimajra (Near Chandigarh)
Yadvindra Gardens	Pinjore
Nada Sahib Gurudwara	Panchkula
Nahan Kothi	Panchkula
Badshahi Bagh Gurudwara	Ambala
Gurudwara Lakhnaur Sahib	Ambala
Gurudwara Manji Sahib	Ambala
Muslim Shrine of Lakhi Shah and Taqwal Shah	Ambala
St paul's Church	Ambala
Ancient Mound	Amin (Kurukshetra)
Bhadrakali Temple	Thanesar, Kurukshetra
Bhishma Kund Narkatari	Kurukshetra
Brahm Srovar	Kurukshetra
Dera Baba Gareeb Nath	Pehowa
Dharohar Museum	Kurukshetra
Gulzari Lal Nanda Institute of Peace and National Integration	Kurukshetra
Jyotisar	Kurukshetra
Kalpana Chawla Memorial planetarium	Kurukshetra
Kartikeya Temple	Pehowa

Name of the Temple	Location of the temple
Kurukshetra Panorama And Science Center	Kurukshetra
Nabha House	Kurukshetra
Pashupatinath Temple	Pehowa
Pather Masjid	Thanesar,Kurukshetra
Prachi Shiva Mandir	Pehowa

33. **Answer: b**

Explanation:

The correct answer is <u>natural tar.</u>

⭐ <u>Key Points</u>

- The 'Great Bath ' of Mohenjodaro was made water-tight with a layer of**natural tar** .
- In Mohenjodaro, close to the Great Granary is the public bath, also called the **Great Bath.**
- It is a large and elaborate bath and without doubt the earliest public water tank in the ancient world.
- Two wide staircases lead down into the tank from the north and south.
- There exists a brick edging across the entire width of the pool for people to move along the width without actually stepping into the pool.
- The floor of the tank is water-tight due to finely fitted bricks with gypsum plaster, and a thick layer of natural tar laid along the sides and the floor. The use of stone is not present.
- A massive well in a neighboring room provided water.
- This bath would have been used for **special religious functions or rituals.**

⭐ <u>Additional Information</u>

- The Indus Valley Civilization extended from present-day north-east Afghanistan to Pakistan and north-west India.

- The Indus Valley Civilization is an ancient civilization that flourished in the Indian subcontinent between 3,000 BC and 1,500 BC.
- Mohenjodaro (Pakistan) is situated on the banks of the river Indus. Discovered in 1922 by R. D. Banerjee in the Larkana district of Sindh. Mohenjodaro means "Mound of the Dead". The most important structure is the huge bathhouse and the huge granary.
- Daya Ram Sahni discovered the Harappan Civilization in 1921. It is situated on the banks of the Ravi river in the Montgomery district of Punjab (Pakistan). Important findings are sandstone sculptures of human anatomy, granary, and bullock cart.

---

34. Answer: d

Explanation:

The correct answer is **trust.**

⭐ **Key Points**

- The Economic Survey of India 2019-20 introduced the idea of **trust** as a public good, that could be enhanced with greater use.
- As per the Economic Survey of India 2019-20, Two-third contribution of the service sector to the total FDI inflows into India.
- India has attracted the highest-ever total FDI inflow of $81.72 billion during the financial year 2020 - 21 and it is 10$ 74.39 billion).
- In terms of top investor countries, ' Singapore' is at the top with 29% , followed by the U.S.A (23%) and Mauritius (9%) for the F.Y. 2020-21.
- Foreign direct investments (FDI) into the country grew 19% to $59.64 billion during 2020-21 on account of measures taken by the government on the fronts of policy reforms, investment facilitation and ease of doing business.
- The computer software and hardware sector attracted the highest inflows with around 44% share of the total FDI equity inflows.

⭐ **Additional Information**

- The economic survey is an annual report card of the economy.

- It represents a day before the budget examines the performance of each and every sector and then suggests future moves.
- The economic survey was de-linked from the Budget in 1964.
- And unveiled in advance in order to provide a context for the latter.
- Last year the theme was Saving Lives and Livelihoods .
- The central theme of the Economic Survey 2021-22 is the "Agile Approach".
- Another theme highlighted in this Economic Survey relates to the art and science of policy-making under conditions of extreme uncertainty.

---

35. **Answer: d**

Explanation:

The correct answer is **Infinite images.**

⭐ **Key Points**

- **Infinite images** are formed if two parallel mirrors face each other.
- Because an image formed by one mirror can act as an object for the second mirror.
- And every image formed by the second mirror can act as an object for the first mirror.

⭐ **Additional Information**

- Reflection From Plane Mirror:
  - The image is virtual and laterally inverted.
  - The size of the image is equal to that of the object.
  - The distance of the image from the mirror is equal to the distance of the object from the mirror.
  - If an object moves towards (or away from) a plane mirror with speed u, relative to the object, the image moves towards (or away) with a speed of 2u.

---

36. Answer: d

Explanation:

The correct answer is <u>1913.</u>

⭐ <u>Key Points</u>

- The **Olympic rings** were publicly presented for the first time in **1913** .
- In the centre of a white background, five rings interlaced: **blue, yellow, black, green and red.**
- Blue, yellow, black, green, and red are the order of the color of the Olympic logo rings.
- It represents five continents : Asia, Africa, America, Australia, and Europe.
- The Olympic Charter once ascribed a ring color to each continent: blue for Europe, yellow for Asia, black for Africa, green for Oceania (or Australia), and red for America.

37. Answer: b

Explanation:

The correct answer is <u>Jasbinder Bilan.</u>

⭐ <u>Key Points</u>

- India-born author <u>Jasbinder Bilan</u> has bagged a coveted **UK children's book award** for her debut novel '<u>Asha and the Spirit Bird</u>'.

- Bilan will receive **5,000 pounds as the winner of the award.**
- Bilan's book was shortlisted from 144 entries alongside 'Crossfire' by Malorie Blackman, 'In the Shadow of Heroes' by Nicholas Bowling and 'Furious Thing' by Jenny Downham.

⭐ **Additional Information**

- The full name of author Jhumpa Lahiri is Jhumpa Nilanjana Sudeshna Lahiri.
  - **Jhumpa Lahiri was born in 1967 in London.**
  - Her first novel was 'Namesake' published in 2003 .
  - She won Pulitzer Prize for her debut short story collection 'Interpreter of Maldives' in 1999.
  - She was nominated for the man booker's prize in 2013 for her much-anticipated novel 'The Lowland' .
- Anita Desai, born Anita Mazumdar is an Indian novelist and the Emerita John E. Burchard Professor of Humanities at the Massachusetts Institute of Technology.
  - As a writer, she has been shortlisted for the Booker Prize three times.
  - In 2014 , She received the Padma Bhushan Award.
- Arundhati Roy won Man Booker Prize in 1997 for her book *"The God of Small Things"*
  - *"The God of Small Things"* is a story about the childhood experiences of fraternal twins whose lives are destroyed by the "Love Laws" that lay down "who should be loved, and how. And how much."
  - The book explores how small things affect people's behaviour and their lives.

---

38. **Answer: d**

Explanation:

The correct answer is **Madhya Pradesh.**

⭐ **Key Points**

- As per the biennial 'India State of Forest Report (ISFR)' 2019, in terms of forest cover as a percentage of total geographical area.
- Forest Cover (Percentage):
    - Mizoram (85.4%)> Arunachal Pradesh (79.63%)> Meghalaya (76.33%)

⭐ Confusion Points

- **Forest Cover (Area-wise) :**
- Madhya Pradesh> Arunachal Pradesh> Chhattisgarh> Odisha> Maharashtra.

⭐ Additional Information

The Indian state of forest report (ISFR) –

- Maharashtra has contributed a modest 95.56 sq km or 24 times the area of Lonar wildlife sanctuary in Buldhana district .
- According to The Indian State of Forest Report (ISFR)-2019 , Maharashtra's forest covers in the analysis period was 50,777.56 sq km, which is 16.50% of the state geographical area of 3,07,713sqkm .
- As per the last ISFR-2017, the states forest cover was 50,682 sq km .
- Dependence of fuelwood on forests is highest in the State of Maharashtra , whereas, for fodder, small timber and bamboo, dependence is highest in Madhya Pradesh.
- It has been assessed that the annual removal of the small timber by the people living in forest fringe villages is nearly 7% of the average annual yield of forests in the country.
- Maharashtra is ranked second among the States in terms of the recorded forest area .

---

39. **Answer: b**

Explanation:

The correct answer is **Paul R Milgrom and Robert B Wilson.**

⭐ Key Points

- **The 2020 Sveriges Riksbank Prize** in Economic Sciences in Memory of Alfred Nobel has been awarded to **Paul R. Milgrom and Robert B. Wilson 'for improvements to auction theory and inventions of new auction formats'.**
- In 1968 , Sveriges Riksbank (Sweden's central bank) established the Prize in Economic Sciences in Memory of <u>Alfred Nobel</u>, founder of the Nobel Prize.
- The Prize is based on a donation received by the Nobel Foundation in 1968 from Sveriges Riksbank on the occasion of the Bank's 300th anniversary.
- The first Prize in Economic Sciences was awarded to Ragnar Frisch and Jan Tinbergen in 1969 .

⭐ <u>**Additional Information**</u>

- Nobel Prize Winner Lists 2021

Nobel Prize 2021	Awardee
Nobel Prize in Physics 2021	1 Syukuro Manabe 2 Klaus Hasselmann 3 Giorgio Parisi
Nobel Prize in Chemistry 2021	1 Benjamin List 2 David W.C. MacMillan
Nobel Prize in Physiology or Medicine 2021	1 David Julius 2 Ardem Patapoutian
Nobel Prize in Literature 2021	1 Abdulrazak Gurnah
Nobel Peace Prize 2021	1 Maria Ressa 2 Dmitry Andreyevich Muratov
The Sveriges Riksbank Prize in Economic Sciences 2021	1 David Card 2 Joshua D. Angrist 3 Guido W. Imbens

40. **Answer: c**

Explanation:

The correct answer is <u>Per Capita Income.</u>

⭐ <u>Key Points</u>

- The main criterion used by the World Bank in classifying different countries is the **per capita income or average income of a person in a country.**
- This criterion is used by the World Bank in its **World Development Reports.**
- **Per capita income** (PCI) or total income measures the average income earned per person in a given area in a specified year.
  - It is calculated by **dividing the area's total income by its total population.**

⭐ <u>Additional Information</u>

- **Gross national product (GNP)** is an economic statistic that includes GDP, plus any income earned by a residents from overseas investments , minus income earned within the domestic economy by foreign residents.
- Gross domestic product (GDP) is the value of a nation's finished domestic goods and services during a specific time period.

---

41. **Answer: a**

Explanation:

The correct answer is <u>Article 74.</u>

⭐ <u>Key Points</u>

- **Article 74** provides for the following:
  - The President, who shall act in line with such advice when performing his duties, shall be assisted and advised by a Council of Ministers, headed by the Prime Minister
  - With the condition that the President may ask the Council of Ministers to reevaluate such advice, generally or otherwise, and the President must follow the advice provided upon such reevaluation.
  - No court shall investigate as to whether any and if so, what, advice was provided to the President by Ministers.

⭐ <u>Additional Information</u>

- **Article 62** : Time of holding election to fill vacancy in the office of President and the term of office of person elected to fill casual vacancy. (1) An election to fill a vacancy caused by the expiration of the term of office of President shall be completed before the expiration of the term.
- The electoral college of India's President is governed by Article 54 of the Indian Constitution.
  - According to this article, the President is elected by the electoral college , which consists of the members listed below.
- **Article 81** of the Indian Constitution defines the makeup of the House of The people, Lok Sabha.

---

42. Answer: b

Explanation:

The correct answer is <u>National Stock Exchange of India Limited.</u>

⭐ <u>Key Points</u>

- **Receivables Exchange of India Ltd (RXIL)** was incorporated on February 25, 2016 as a joint venture between **Small Industries Development Bank of India (SIDBI) and National Stock Exchange of India Limited (NSE).**

⭐ <u>Additional Information</u>

- The **National Stock Exchange** is a government-owned stock exchange in India.
  - It is located in Mumbai, Maharashtra.
  - It was established in 1992 .
  - It uses NIFTY 50 as its index.
  - Nifty was introduced by NSE on April 21, 1996.
  - It represents the weighted average of 50 Indian Company Stocks across 24 sectors, which account for around 60% of the market capitalization.
- **SIDBI** was established with the mission of facilitating and strengthening the flow of credit to Micro, Small and Medium Enterprises.

- It is a statutory body set up under an act of the **Indian Parliament in 1990.**
- It was set up on **2nd April 1990.**
- Headquartered- **Lucknow** .

---

43. Answer: c

Explanation:

The correct answer is <u>**Manila (Philippines).**</u>

⭐ <u>**Key Points**</u>

- **Manila North Harbor** is located in the **Tondo district on the north side** of the Pasig river,
- **Manila South Harbor** in the Port Area district on the south side.
- Situated between these two, the **Manila International Container Terminal** is the 38th busiest container port in the world.
  - **Hence it is not located in the Indian ocean.**

⭐ <u>**Additional Information**</u>

State	Port Name	Features
Tamil Nadu	Chennai	Artificial Port Second busiest port
Kerala	Kochi	Sited in the Vembanad lake Exports of spices and salts
Tamil Nadu	Ennore	India's First corporatized port
West Bengal	Kolkata	India's only major Riverine port Situated on the Hugli river Known as Diamond Harbour
Gujarat	Kandla	Known as Tidal Port Acknowledged as Trade Free Zone Largest port by volume of cargo handled.
Karnataka	Mangalore	Deals with the iron ore exports
Goa	Mormugao	Situated on the estuary of the river Zuari
Maharashtra	Mumbai Port Trust	Largest Natural Port and harbour In India The busiest port in India
Maharashtra	Jawaharlal Nehru Port Trust (JNPT) also known as Nhava Sheva, Navi Mumbai	Largest Artificial Port It is the Largest Container Port in India.

State	Port Name	Features
Odisha	Paradip	Natural Harbor deals with the export of iron and aluminium
Tamil Nadu	Tuticorin	A major port in south India deals with fertilizers and petrochemical products
Andhra Pradesh	Visakhapatnam	Deepest port in India deals with the export of iron ore to Japan. Amenities for building and fixing of ships are available
Andaman & Nicobar Islands	Port Blair	The port connected to the mainland of India through ship and flight. This port is situated in between two international shipping lines namely Saudi Arabia & US Singapore.

44. **Answer: b**

Explanation:

The correct answer is **Elephanta Island.**

⭐ **Key Points**

- Elephanta Caves are a UNESCO World Heritage Site and a collection of cave temples predominantly dedicated to the Hindu god Shiva.
  - They are on Elephanta Island, or Gharapuri, in Mumbai Harbour, 10 kilometres east of Mumbai in the Indian state of Mahārāshtra.

⭐ **Additional Information**

- Ellora is a UNESCO World Heritage Site located in the Aurangabad district of Maharashtra, India.
  - It is one of the world's largest rock-cut monastery-temple cave complexes, featuring Hindu, Buddhist, and Jain monuments, and artwork, dating from the 600–1000 CE period.
- The Ajanta Caves are approximately 30 rock-cut Buddhist cave monuments that date from the 2nd century BCE to about 480 CE in the Aurangabad district of Maharashtra state of India.
  - The caves include paintings and rock-cut sculptures described as among the finest surviving examples of ancient Indian art, particularly expressive paintings that present emotions through gesture, pose, and form.

---

45. **Answer: a**

Explanation:

The correct answer is **Rule 8.**

⭐ **Key Points**

- **Under Rule 8** of the Procedure and Conduct of Business in the Council of States (Rajya Sabha), the Chairman, Rajya Sabha nominates six members on the panel of Vice-Chairmen.
- One of whom presides over the House in the absence of both the Chairman and the Deputy Chairman.
- When neither the Chairman nor the Deputy Chairman and none of the Vice Chairmen is present to preside, the House may decide about any other member present to preside.

⭐ **Additional Information**

- Rules of Procedure and Conduct of Business have been formulated under Article 118(1) of the Constitution wherein each House of Parliament is required to make rules for regulating its procedure and conduct of business.

- Further, according to Article 118(3), the president, after consultation with the chairman of the council of states Prep the speaker of the house of the people, may make rules as to the procedure with respect to joint sittings of, and communications between, the 2 houses.
- Speaker in Lok Sabha and Chairman in Rajya Sabha are the final interpreters of provisions of rules of procedure and conduct of business.
- Rules committee considers the matters of procedure and conduct of business in the House and recommends necessary amendments or additions to the Rules of the House.

---

46. Answer: d

Explanation:

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

⭐ <u>Key Points</u>

- The disease **scrub typhus** is caused by a type of **bacterium.**
- Scrub typhus is a mite-borne acute febrile infectious illness that is caused by Orientia tsutsugamushi .
- **Gram-negative coccobacillus** is antigenically distinct from the typhus group rickettsiae.
- Orientia tsutsugamushi is maintained by transovarial transmission in trombiculid mites.
- Three strains of Orientia tsutsugamushi – **Karp, Gilliam, and Kato.**

⭐ <u>Additional Information</u>

- The most common symptoms of scrub typhus include fever, headache, body aches, and sometimes a rash .
  - People with severe illness may develop organ failure and bleed, which can be fatal if left untreated.
- Most cases of scrub typhus occur in rural areas of Southeast Asia, Indonesia, China, Japan, India, and northern Australia .
- Scrub typhus should be treated with the antibiotic doxycycline .

- o Doxycycline can be used in persons of any age.
- o People who are treated early with doxycycline usually recover quickly.

---

47. Answer: d

Explanation:

The correct answer is **Tripura.**

⭐ **Key Points**

- The former princely state of Tripura in the north-eastern part of India was ruled by Manikya dynasty .
- Ratna Fa was the 145th king of Twipra and he was the first to assume the title Manikya and as such can be considered the founder of the Manikya dynasty .
- The first king of Twipra is Chandra , the moon himself but the list of historical begins with Ratna Fa only .

⭐ **Additional Information**

- Tripura :
  - o Agartala is the capital of Tripura.
  - o It is bordered by Bangladesh, Mizoram, and Assam.
  - o Manik Saha is the current CM of Tripura.
  - o Satyadeo Narain Arya is the current Governor of Tripura.

---

48. Answer: c

Explanation:

The correct answer is Edwin Lutyens.

⭐ **Key Points**

- **Edwin Lutyens** is an architect credited with planning and designing major parts of New Delhi's buildings during the British period
- The designer was **Sir Edwin Lutyens,** an Englishman who designed many other war memorials and was also the chief planner of New Delhi.
- It is ocated at the middle of a hexagonal complex with a diameter of 625m and a total area of 360,000 m2, the India Gate is 42m in height and 9.1m in width.
- The historic India Gate, an arch gate made using sandstone, is a war memorial situated in the Rajpath area, Delhi .
- It was built to commemorate the Undivided British Army soldiers who laid down their lives during the First World War and the Third Anglo-Afghan War of 1919.

⭐ **Additional Information**

- Sir Herbert Baker was an English architect remembered as the dominant force in South African architecture for two decades.
- **Frederick Gilbert** worked on many designs in Minnesota including the **Minnesota State Capital Building.**
- **Elisabeth Lutyens** is famous especially for his planning of New Delhi and his design of the **Viceroy's House there.**

---

49. **Answer: c**

Explanation:

The correct answer is <u>Dr. NS Dharmashaktu.</u>

⭐ **Key Points**

- The International Gandhi Awards for Leprosy was awarded to Dr N.S. Dharmashaktu and the Leprosy Mission Trust in New Delhi on 6 Feb 2020.
- The award was presented by **President Ram Nath Kovind.**
- The International Gandhi Awards for Leprosy commemorates the compassion that Mahatma Gandhi possessed and his services towards people with leprosy.

⭐ <u>Additional Information</u>

- World Leprosy Day is celebrated on the last Sunday of January every year all over the world to increase knowledge about it and propagate the need and importance of eradicating the disease.
- It was observed on **30 January** in the year of 2021.
- There is no fix date for World Leprosy Day.
- It is celebrated on last Sunday of January.

---

50. **Answer: d**

Explanation:

The correct answer is <u>Pankaj Advani</u>.

⭐ <u>Key Points</u>

- Pankaj Arjan Advani is an Indian billiard and former professional snooker player .
- He is a 23-time International Billiards and Snooker Federation world champion . He has won 16 billiards world titles , the IBSF World Billiards Championship on 15 occasions , and the World Team Billiards Championship once .
- Cue sports are a wide variety of games of skill played with a cue , which is used to strike billiard balls and thereby cause them to move around a cloth-covered table bounded by elastic bumpers known as cushions .

⭐ <u>Additional Information</u>

- **Krishan Bahadur Pathak** is an Indian field hockey player who plays as a goalkeeper for the Indian national team.
- **Naib Subedar Deepak Punia,** is an Indian freestyle wrestler and Junior Commissioned Officer in the Indian Army who won a silver medal at the 2019 World Wrestling Championships in the freestyle 86 kg category and secured a place in the 2020 Summer Olympics.
- **Bhakti Sharma** is an Indian Open water swimmer.

- ○ She is the first Asian woman and the youngest in the world to set a record in open swimming in Antarctic waters.

---

51. **Answer: c**

Explanation:

Given:

Given discounts are 40% and 20%.

Concept used:

Final discount percentage after two successive discounts of A% and B% = $(A + B - \frac{AB}{100})\%$

Calculation:

Final discount = 40 + 20 − (40 × 20/100)

⇒ 60 − 8 = 52%

∴ **52% is the single discount equivalent to a series of discounts of 40% and 20%.**

---

52. **Answer: c**

Explanation:

Given:

The expenditure of Renu is 120% more than her savings.

H her income and expenditure increase by 25% and 30%.

Concept used:

Income = Expenditure + Saving

Calculation:

Let the savings be Rs. 100.

Expenditure of hers = 100 + 100 × 120%

⇒ Rs. 220

Income = 100 + 220 = Rs. 320

New income = 320 + 320 × 25%

⇒ Rs. 400

New expenditure = 220 + 220 × 30%

⇒ Rs. 286

So, new savings = 400 – 286 = Rs. 114

Now, her savings increased by = $\frac{114-100}{100} \times 100\%$

⇒ 14%

∴ Her savings increased by 14%.

---

53. **Answer: c**

Explanation:

Given:

A trader has 80 kg rice, a part of which he sells at 15% profit and the rest at 5% loss.

He gains 12% on the whole.

Calculation:

Using mixture and alligation, we have found that the ratio of the quantities that is sold at 15% to 5% loss = 17 : 3

Now, the quantity of rice sold at 15% profit = 80 × 17/(17 + 3)

⇒ 68 kg

∴ The quantity of rice sold at 15% profit is 68 kg.

54. Answer: b

Explanation:

Given:

A person invested a certain sum at a rate of 5% per annum on simple interest (SI) for 2 years, while another person invested the same sum for the same period at a compound interest rate of 4% per annum.

The interest at the SI rate is ₹ 184.00 more than that at the compound interest rate.

Concept used:

Simple Interest, SI = (P × R × T)/100

Amount = P + SI

where

P = Principal amount

R = Rate of interest per year

T = Time in years

In case of the compound interest,

Amount = $P(1 + R/100)^N$

$CI = P(1 + R/100)^N - P$

where

P = Principal amount

R = Rate of interest per year

N = Time in years

Calculation:

Let the principal amount be P.

Simple interest on P at 5% p.a. for 2 years = $(P \times 5 \times 2)/100$

$\Rightarrow 0.1P$

Compound interest on P at 4% p.a. for 2 years = $P(1 + 4/100)^2 - P$

$\Rightarrow 0.0816P$

According to the question,

$0.1P - 0.0816P = 184$

$\Rightarrow 0.0184P = 184$

$\Rightarrow P = 184/0.0184$

$\Rightarrow P = 10000$

∴ **The sum invested is ₹ 10,000.**

55. Answer: a

Explanation:

Given:

The LCM and HCF of the two numbers are 3564 and 81, respectively.

The numbers are 324 and x.

Concept used:

LCM × HCF = The Product of two numbers

Calculation:

According to the concept,

$324 \times x = 3564 \times 81$

$\Rightarrow x = (3564 \times 81)/324$

$\Rightarrow x = 891$

Now, the sum of the digits of $x = 8 + 9 + 1 = 18$

$\therefore$ The sum of the digits of x is 18.

---

56. Answer: b

Explanation:

Given:

Radha who is half as efficient as Kirti will take 30 days to complete a task if she works alone.

Concept used:

Total work = Efficiency (Work done per day) × Total time taken

Efficiency (work done per day) of workers is inversely proportional to the time taken by workers to complete a particular task.

Calculation:

Time taken by Kriti to complete the work alone = 30 ÷ 2 = 15 days

Let the total work be 30 units.

Efficiency of Kriti = 30/15 = 2 units

Efficiency of Radha = 30/30 = 1 unit

Now, working together, they will finish the work in = 30/(2 + 1)

⇒ 10 days

∴ They will take 10 days to complete the work.

57. **Answer: a**

Explanation:

Given:

A boat running downstream covers a distance of 12 km in 30 minutes and while running upstream at the same speed, it covers the same distance in 36 minutes.

Concept used:

While rowing upstream, the upstream speed is the difference between the speed of the boat in still water and the speed of the flow.

While rowing downstream, the downstream speed is the addition of the speed of the boat in still water and the speed of the flow.

Time × Speed = Distance

Calculation:

Let the speed of the boat in still water and stream be B and R km/h respectively.

According to the question,

(B + R) × 30/60 = 12

⇒ (B + R) = 12/0.5

⇒ (B + R) = 24   ....(1)

(B – R) × 36/60 = 12

⇒ (B – R) = 12 × 60/36

⇒ (B – R) = 20   ....(2)

(1) + (2),

B + R + B – R = 24 + 20

⇒ 2B = 44

⇒ B = 44/2

⇒ B = 22

∴ The speed of the boat in still water is 22 km/h.

---

58. Answer: a

Explanation:

Given:

A person borrows a sum of ₹ 50,000 for 3 years at 4% p.a. simple interest.

He immediately lends it to another person at $6\frac{1}{4}\%$ p.a. simple interest for 3 years.

Concept used:

Simple Interest, SI = (P × R × T)/100

Amount = P + SI

where

P = Principal amount

R = Rate of interest per year

T = Time in years

Calculation:

Interest incurred on the sum of ₹ 50,000 for 3 years at 4% p.a.

⇒ (50000 × 4 × 3)/100 = ₹6000

Interest incurred on the sum of ₹ 50,000 for 3 years at $6\frac{1}{4}\%$ i.e. 6.25% p.a.

⇒ (50000 × 6.25 × 3)/100 = ₹9375

His gain per year = (9375 – 6000)/3

⇒ ₹1125

∴ His gain in the transaction per year is ₹ 1125.

---

59. **Answer: b**

Explanation:

Given:

The average of eight consecutive even numbers is 65.

Concept used:

Total = Average × Number of entities

Calculation:

Let the consecutive numbers be x − 6, x − 4, x − 2, x, x + 2, x + 4, x + 6, x + 8.

According to the question,

x − 6 + x − 4 + x − 2 + x + x + 2 + x + 4 + x + 6 + x + 8 = 65 × 8

⇒ 8x + 8 = 520

⇒ 8x = 512

⇒ x = 512/8

⇒ x = 64

Last number of the series = 64 + 8 = 72

Next four even numbers are = 74, 76, 78, 80

Sum (74, 76, 78, 80) = 308

Number of terms in the series = 8 + 4 = 12

Now, the average of all the numbers = {(65 × 8) + 308}/12

⇒ 69

∴ The average is 69.

60. **Answer: c**

Explanation:

Given:

The curved surface area of a cone is $25\sqrt{2}\pi$ cm 2 .

T he height of the cone is equal to the radius of its base.

Concept used:

Curved surface area of cone = πrl

Volume of the cone = πr 2h/3

Slant height, l = $\sqrt{Radius^2 + Height^2}$

where r = radius of the base and l = slant height

Calculation:

Let the radius of the cone be R cm.

So, the height = R cm

Slant height = $\sqrt{R^2 + R^2}$ = $R\sqrt{2}$ cm

According to the question,

π × R × =

⇒ R 2 = 25

⇒ R = 5 (radius can't be negative)

Now, the volume of the cone = (π × 5 2 × 5)/3

⇒ 130.952 ≈ 130.95 cm 3

∴ The volume of the cone is 130.95 cm 3.

61. **Answer: a**

Explanation:

Given:

A man can row at 9 km/h in still water.

It takes him equal time to go 33 km downstream and to go 21 km upstream.

Concept used:

While rowing upstream, the upstream speed is the difference between the speed of the boat in still water and the speed of the flow.

While rowing downstream, the downstream speed is the addition of the speed of the boat in still water and the speed of the flow.

Distance = Speed × Time

Calculation:

Let the speed of the stream be R km/h.

Upstream speed = (9 – R) km/h

Downstream speed = (9 + R) km/h

According to the question,

33/(9 + R) = 21/(9 – R)

⇒ 11/(9 + R) = 7/(9 – R)

⇒ 63 + 7R = 99 – 11R

⇒ 18R = 36

⇒ R = 36/18

⇒ R = 2

∴ The speed of the stream is 2 km/h.

62. **Answer: c**

Explanation:

Given:

A sport store offers 19% discount on its articles and it offers a further discount of 2% on the reduced price to those customers who pay by online wallet.

A customer purchase sports items worth ₹ 18000 and pays through an online wallet.

Concept used:

Discount% = $\frac{(Marked\ Price - Selling\ Price)}{Marked\ Price} \times 100\%$

Selling price = Marked Price - Marked Price × Discount%

Calculation:

Final discount for a customer who pays by Online wallet = 19 + 2 – (19 × 2)/100 = 20.62%

Now, the amount paid by the customer = 18000 – 18000 × 20.62%

⇒ ₹14288.40

∴ The amount to be paid by the customer is ₹ 14288.40.

63. **Answer: a**

Explanation:

Given:

A certain sum amounts to ₹ 7485 after 3 years and to ₹ 9960 after 8 years at the same rate percent per annum at simple interest.

Concept used:

Simple Interest, SI = (P × R × T)/100

Amount = P + SI

where

P = Principal amount

R = Rate of interest per year

T = Time in years

Calculation:

Interest in (8 − 3) i.e. 5 years = 9960 − 7485 = ₹2475

Interest per year = 2475/5 = ₹495

Let the principal amount and the rate of interest be Rs. P and R% respectively.

According to the question,

(P × 1 × R)/100 = 495

⇒ PR/100 = 495 ....(1)

According to the question,

P + (P × 3 × R)/100 = 7485 ....(2)

P + (P × 8 × R)/100 = 9960 ....(3)

(2) + (3),

2P + 11PR/100 = 17445

⇒ 2P + (11 × 495) = 17445

⇒ 2P = 17445 − (11 × 495)

⇒ 2P = 12000

⇒ P = 6000

Putting P = 6000 in (1)

(6000 × R)/100 = 495

⇒ R = 495/60

⇒ R = 8.25

The revised simple interest rate = 8.25 × 2 = 16.5%

Now, the amount in 7 years

⇒ 6000 + (6000 × 16.5 × 7)/100

⇒ ₹12930

∴ **The amount becomes ₹12930.**

---

64. **Answer: c**

Explanation:

Given:

An article is purchased for ₹350 and sold for ₹500.

Calculation:

Now, gain% = $\frac{500-350}{350} \times 100\%$

⇒ 42.857 ≈ 42.86%

∴ The gain percentage is 42.86%.

---

65. **Answer: d**

Explanation:

Given:

Four birds A, B, C, and D fly along the circumference of a jungle. They complete one round in 27 minutes, 30 minutes, 45 minutes and 60 minutes, respectively.

Concept used:

LCM is the smallest common multiple of two or more numbers.

Calculation:

LCM (27, 30, 45, 60) = 540

Now, they will meet again at the starting position after 540 minutes.

540 minutes = 540/60

⇒ 9 hours

∴ They will meet again at the starting position after 9 hours.

66. **Answer: a**

Explanation:

Given:

12 persons can dig a trench 20 m in length in 8 days.

Concept used:

Total work = Number of workers × Efficiency of each worker × Number of days required

Calculation:

Let the efficiency of each person be M.

According to the question,

20 = 12 × M × 8

⇒ M = 5/24

Now, the number of persons required = 30 ÷ (5/24 × 6)

⇒ 24

∴ The number of persons required to dig a 30 m trench of the same width and depth in 6 days, is 24.

---

67. **Answer: d**

Explanation:

Given:

Diagonal of the square = 16 cm

BC = AD = 16 cm
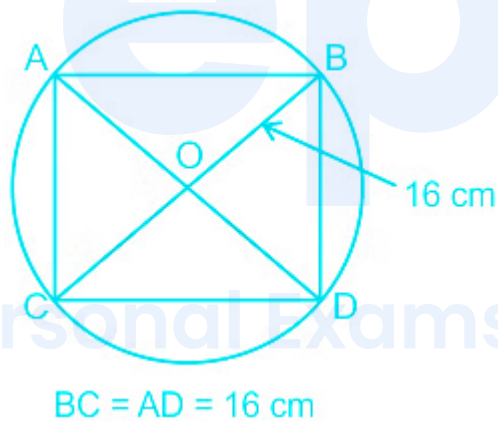
Concept used:

Diagonal of a square = a√2

Area of a square = a ^{2}

where a is the length of its side.

Calculation:

Side of the square = 16 ÷ √2 = 8√2

Area of the square = $(8\sqrt{2})^2$ = 128 cm^2

∴ **The area of a square inscribed in a circle, whose diagonal is 16 cm, is 128 cm 2 .**

---

68. **Answer: c**

Explanation:

Given:

The average age of the boys participating in a camp is 16 years and that of the girls is 13 years.

The ratio of the number of boys and girls participating in the camp is 2 : 3.

Concept used:

Total = Average × Number of entities

Calculation:

Let there be 2k and 3k boys and girls respectively.

Total age of all boys = 16 × 2k = 32k years

Total age of all girls = 13 × 3k = 39k years

Now, the average of all participants = (39 + 32)k ÷ (2k + 3k)

⇒ 14.2 years

∴ The average age of all participants is 14.2 years.

---

69. **Answer: c**

Explanation:

Given:

Ramesh invested 30% more than Suresh.

Suresh invested 40% less than Arun who invested Rs. 8,000.

Calculation:

Suresh invested = 8000 - 8000 × 40%

⇒ Rs. 4800

Ramesh invested = 4800 + 4800 × 30%

⇒ Rs. 6240

Now, the difference in the amounts (in Rs.) invested by Ramesh and Suresh = 6240 - 4800

⇒ Rs. 1440

∴ The difference in the amounts (in Rs.) invested by Ramesh and Suresh is Rs. 1440.

70. **Answer: a**

Explanation:

Given:

$[(102 − 16 ÷ 8) − 2] ÷ [3 + 6 × (5 + 4) ÷ 3 − 7]$

Concept used:

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

Calculation:

$[(102 − 16 ÷ 8) − 2] ÷ [3 + 6 × (5 + 4) ÷ 3 − 7]$

$⇒ [(102 − 2) − 2] ÷ [3 + 6 × 9 ÷ 3 − 7]$

$⇒ [100 − 2] ÷ [3 + 6 × 3 − 7]$

$⇒ 98 ÷ [3 + 18 − 7]$

$⇒ 98 ÷ 14$

$⇒ 7$

∴ The required answer is 7.

---

71. Answer: b

Explanation:

Given:

The loss incurred in a transaction is $\frac{1}{5}$ of the selling price.

Concept used:

Cost price = Selling price + Loss

Loss% = $\frac{(Cost\ Price - Selling\ Price)}{Cost\ Price} \times 100\%$

Calculation:

Let the selling price be Rs. 100.

Loss = 100/5 = Rs. 20

Cost price = 100 + 20 = Rs. 120

Now, loss% = $\frac{20}{120} \times 100\%$

⇒ 16.67%

∴ The loss percentage will be closest to 16.67%.

---

72. **Answer: c**

Explanation:

Given:

$$\frac{21 + (-18) \times 2 - [-4 + 15\{5 \div (4 - 7)\} \div 4(-5)]}{(-14) \times (2) + 7}$$

Concept used:

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

Calculation:

$$\frac{21+(-18) \times 2-[-4+15\{5 \div (4-7)\} \div \ 4(-5)]}{(-14) \times (2) + 7}$$

$$\Rightarrow \frac{21+(-18) \times 2-[-4+15\{5 \div (-3)\} \div \ (-20)]}{-28+7}$$

$$\Rightarrow \frac{21+(-18) \times 2-[-4+15\{5 \div (-3)\} \div \ (-20)]}{-21}$$

$$\Rightarrow \frac{21+(-18)\times2-[-4+15\times-\frac{5}{3}\div-20]}{-21}$$

$$\Rightarrow \frac{21+(-18)\times2-[-4+(-25)\div(-20)]}{-21}$$

$$\Rightarrow \frac{21+(-18)\times2-[-4+\frac{5}{4}]}{-21}$$

$$\Rightarrow \frac{21+(-18)\times2-\frac{-11}{4}}{-21}$$

$$\Rightarrow \frac{21+(-36)-\frac{-11}{4}}{-21}$$

$$\Rightarrow \frac{21-36+\frac{11}{4}}{-21}$$

$$\Rightarrow \frac{\frac{-49}{4}}{-21}$$

$$\Rightarrow \frac{7}{12}$$

∴ The simplified value is $\frac{7}{12}$.

---

73. Answer: d

Explanation:

Given:

A sum of ₹ 159250 is divided among A, B, C, and D such that the ratio of the shares of A and B is 1 : 3, that of B and C is 2 : 5, and that of C and D is 2 : 3.

Calculation:

A : B = 1 : 3 = 2 : 6

B : C = 2 : 5 = 6 : 15

C : D = 2 : 3 = 15 : 22.5

So,

A : B : C : D

⇒ 2 : 6 : 15 : 22.5

⇒ 20 : 60 : 150 : 225

⇒ 4 : 12 : 30 : 45

Now, A's share = 159250 × 4/(4 + 12 + 30 + 45)

⇒ 159250 × 4/91 = ₹7000

∴ **The share of A is ₹ 7000 .**

---

74. **Answer: a**

Explanation:

Given:

10 women can complete a work in 15 days. The same work can be completed in 5 days by 15 men.

10 women started the work and after 3 days, 5 men replaced 5 women.

Concept used:

Total work = Number of workers × Efficiency of each worker × Days to complete the work

Calculation:

Let the total work be 300 units.

Efficiency of each woman = 300 ÷ (10 × 15) = 2 units

Efficiency of each man = 30 0 ÷ (15 × 5) = 4 units

Work done in 3 days = 10 × 2 × 3 = 60 units

Remaining work = 300 - 60 = 240 units

5 women and 5 men together complete in 1 day = 5 × 4 + 5 × 2 = 30 units

So, the remaining work will be done in = 240/30 = 8 days

Now, the work will be completed = 8 + 3 = 11 days

∴ The work will be completed in 11 days.

---

75. Answer: c

Explanation:

Given:

In an examination, a student requires 35% marks to pass.

Sunita gets 145 marks and fails by 23 marks.

Calculation:

Passing marks = 145 + 23 = 168

35% of the total marks = 168

Now, the maximum total marks = 168/35%

⇒ 168/0.35 = 480

∴ The maximum marks of the examination is 480.

---

76. Answer: d

Explanation:

The correct answer is option 4) i.e. "A complicated situation or problem . "

⭐ <u>Key Points</u>

- Let's look at the meaning of the given idiom/ phrase:
- The phrase' A can of worms 'means ' to create a complicated situation in which doing something to correct a problem leads to many more problems.'
- *Example*:
  - *The government is reluctant to change the old policy now because it doesn't want to open* **a can of worms.**
- Hence, the only possible answer is option 4 'A complicated situation or problem,' which exactly resembles the meaning of the given idiom/ phrase.

<u>Correct meaning:</u>*A complicated situation or problem.*

---

77. Answer: d

Explanation:

The correct answer is option 4) i.e., 'Catastrophe .'

⭐ <u>Key Points</u>

- Let's look at the meaning of the marked option :

Word	Meaning
Catastrophe	a sudden event that causes very great trouble or destruction. (एक अचानक घटना जो बहुत बड़ी परेशानी या विनाश का कारण बनती है)

- Example :
  - *A violent cyclone preceded the* **catastrophe** *, by which many coastal villages were destroyed.*
- Let's look at the meanings of the other given options:

Word	Meaning
Emergency	a dangerous or serious situation that happens unexpectedly and needs fast action in order to avoid harmful results. (एक खतरनाक या गंभीर स्थिति जो अप्रत्याशित रूप से होती है और हानिकारक परिणामों से बचने के लिए तेजी से कार्रवाई की आवश्यकता होती है)
Adventure	an unusual, exciting, and possibly dangerous activity, such as a trip or experience, or the excitement produced by such an activity. (एक असामान्य, रोमांचक और संभवतः खतरनाक गतिविधि, जैसे यात्रा या अनुभव, या ऐसी गतिविधि से उत्पन्न उत्साह)
Termination	to cause something to end or stop. (किसी चीज को समाप्त या बंद करने का कारण)

- Hence, from the given meanings, we find that 'Catastrophe 'is the correct one-word substitute.
- So, the correct answer is option 4.

Correct one-word substitute:*Catastrophe.*

---

78. **Answer: d**

Explanation:

The correct answer is option 4) i.e. 'Exclude .'

⭐ **Key Points**

- Let's look at the meaning of the given word :

Word	Meaning
Eliminate	to remove or take away someone or something. (किसी को या किसी चीज़ को हटाना या दूर करना)

- Let's look at the meaning of the words given in the options:

Word	Meaning
Lighten	to reduce the weight of something. (किसी चीज का वजन कम करना)
Include	to contain something as a part of something else. (किसी चीज़ को किसी और चीज़ के हिस्से के रूप में शामिल करना)
Darken	to become dark or darker in colour. (रंग गहरा या गहरा होना)
Exclude	to keep out or omit something or someone. (कुछ या किसी को बाहर रखना या छोड़ना)

- Clearly, the word' Exclude 'isclosest in meaningto the given word' Eliminate .'
- Therefore, the correct synonym of the given word isoption 4.

⭐ <u>Additional Information</u>

- Let's look at the synonyms and antonyms for the given word 'Eliminate ':

- Synonyms:cancel, defeat, disqualify, eradicate, erase, exclude.
- Antonyms:add, aid, allow, create, establish.

---

79. **Answer: b**

Explanation:

The correct answer is option 2) i.e. 'Bright .'

⭐ <u>Key Points</u>

- Let's look at the meanings of the given word and marked option:

Word	Meaning
Bleak	If a place is bleak, it is empty, dark and not welcoming or attractive. (यदि कोई स्थान अंधकारमय है, तो वह खाली है, और स्वागत योग्य या आकर्षक नहीं है)
Bright	full of light, shining. (प्रकाश से भरा हुआ, चमकीला)

- Let's look at the meanings of the other given options:

Word	Meaning
Cold	having a low temperature. (कम तापमान होना)
Dark	with little or no light. (कम या बिना रोशनी के)
Grim	worried and serious or sad. (चिंतित और गंभीर या उदास)

- Hence from the given meanings,we find that ' Bleak ' and ' Bright 'are antonyms.
- So,the correct answer is option 2.

⭐ **Additional Information**

- Let's look at the synonyms and antonyms for the given word 'Bleak ':

- Synonyms:austere, chilly, cold, desolate, dreary, grim.
- Antonyms:bright, cheerful, friendly, happy, hot.

---

80. **Answer: d**

Explanation:

The correct answer is option 4) i.e. 'dropped.'

⭐ **Key Points**

- Let's look at the meaning of the words given in the options:

Word	Meaning
disbarred	to make someone unable to continue working as a lawyer, especially because they have done something wrong. (किसी को वकील के रूप में काम करना जारी रखने में असमर्थ बनाने के लिए, खासकर इसलिए क्योंकि उन्होंने कुछ गलत किया है)
disrupted	to prevent something, especially a system, process, or event, from continuing as usual or as expected. (किसी चीज़, विशेष रूप से एक प्रणाली, प्रक्रिया, या घटना को सामान्य या अपेक्षित रूप से जारी रखने से रोकने के लिए)
dispelled	to remove fears, doubts, and false ideas, usually by proving them wrong or unnecessary. (to remove fears, doubts, and false ideas, usually by proving them wrong or unnecessary)
dropped	to fall or to allow something to fall; to stop including someone or something. (गिरना या किसी चीज को गिरने देना; किसी को या कुछ शामिल करना बंद करना)

- The context of the sentence is that we should not include unnecessary articles and pronouns in a sentence.
- According to the above-mentioned points, the most appropriate word to fill in the blank is "dropped."
- Therefore, the correct answer is Option 4.

- Another example :
  - Peter threw his feet over the wagon seat and **dropped** to the ground.

Complete Sentence:*Words such as articles and pronouns can be* _dropped_ *unless they are necessary.*

---

81. **Answer: c**

Explanation:

The correct answer is option 3) i.e. "Casulty."

⭐ Key Points

- The correct spelling is 'Casualty .'
- ' Casualty ' means a person injured or killed in a serious accident or war. (किसी गंभीर दुर्घटना या युद्ध में घायल या मारा गया व्यक्ति)
- Example:
    - The company enjoyed a highly successful business until it became a **casualty** of World War I .
- Therefore, 'Casulty'is incorrectly spelt among the given options.
- Hence, option 3 is the correct answer.

⭐ Additional Information

- Let's know the meaning of the other options:

Word	Meaning
Calamity	a serious accident or bad event causing damage or suffering . (एक गंभीर दुर्घटना या बुरी घटना जिससे क्षति या पीड़ा होती है)
Affliction	something that makes you suffer . (कुछ ऐसा जो आपको कष्ट देता है)
Disaster	an event that results in great harm, damage, or death, or serious difficulty . (एक घटना जिसके परिणामस्वरूप बहुत नुकसान, क्षति, या मृत्यु, या गंभीर कठिनाई होती है)

---

82. **Answer: a**

Explanation:

The correct answer is option 1) i.e. 'No substitution required . '

⭐ Key Points

- According to the rules of conditional sentences, the given sentence is correct.
- The given sentence is an example of **'If clause in the present tense.'**
- The structure of such sentences are:

- ○ **If + Simple Present, Simple Future**
- • **Example:**
  - ○ *If I come to Kolkata, I will meet you.*
- • Therefore, the correct answer is Option 1.

Correct sentence:*If he likes this house, he will buy it.*

---

83. Answer: a

Explanation:

The correct answer is option 1) i.e. 'Kindness.'

⭐ **Key Points**

- • Let's look at the meanings of the given word and marked option:

Word	Meaning
Malice	the wish to harm or upset other people. (अन्य लोगों को नुकसान पहुँचाने या परेशान करने की इच्छा)
Kindness	the quality of being generous, helpful, and caring about other people. (अन्य लोगों के बारे में उदार, सहायक और देखभाल करने का गुण)

- • Let's look at the meanings of the other given options:

Word	Meaning
Bitterness	expressing a lot of hate and anger. (बहुत नफरत और गुस्सा व्यक्त करना)
Hatred	an extremely strong feeling of dislike. (नापसंदगी की एक बेहद मजबूत भावना)
Grudge	a strong feeling of anger and dislike for a person who treated you badly. (उस व्यक्ति के लिए क्रोध और अरुचि की तीव्र भावना जिसने आपके साथ बुरा व्यवहार किया)

- Hence from the given meanings, we find that ' Malice ' and ' Kindness ' are antonyms.
- So, the correct answer is option 1.

⭐ Additional Information

- Let's look at the synonyms and antonyms for the given word 'Malice ':

- Synonyms: animosity, animus, antipathy, bitterness, enmity, grudge.
- Antonyms: friendliness, friendship, good will, happiness, kindness.

---

84. Answer: c

Explanation:

The correct answer is option 3) i.e. 'Hiss .'

⭐ Key Points

- Let's look at the meaning of the marked option :

Word	Meaning
Hiss	the noise a snake makes. (सांप जो शोर करता है)

- Example :
  - The snake **hissed** at the snake charmer.
- Let's look at the meanings of the other given options:

Word	Meaning
Coo	the sound made by a dove. (कबूतर द्वारा की गई ध्वनि)
Moo	the sound made by a cow . (गाय द्वारा की गई ध्वनि)
Buzz	the sound made by a fly . (मक्खी द्वारा की गई ध्वनि)

- Hence, from the given meanings, we find that 'Hiss 'is the correct one-word substitute.
- So, the correct answer is option 3.

<u>Correct one-word substitute:</u> *Hiss.*

---

85. Answer: a

Explanation:

The erroneous part is option 1) i.e. 'follow another airplane .'

⭐ <u>Key Points</u>

- The error lies in the part'follow another airplane.'
- According to the rules of Past Perfect tense, when two actions took place in the past, the first action should be in Past Perfect and the second action should be in Simple Past.
- i n the given sentence the first action is **'he had lost his way in the storm'** and the second action is **'The pilot followed another airplane.'**
- Therefore i n the given sentence, we need to use the past form of the verb 'followed'in place of the present form of the verb 'follow' to make the sentence grammatically correct.
- Hence, the correct answer is option 1.

<u>Correct sentence:</u>*The pilot **followed another airplane** as he had lost his way in the storm.*

---

86. Answer: a

Explanation:

The correct answer is option 1) i.e. 'fortunate.'

⭐ <u>Key Points</u>

- Let's look at the meaning of the words given in the options:

Word	Meaning
fortunate	receiving or bringing a good thing that was uncertain or unexpected; lucky. (एक अच्छी वस्तु प्राप्त करना या लाना जो अनिश्चित या अप्रत्याशित थी; भाग्यशाली)
intelligent	showing intelligence, or able to learn and understand things easily. (बुद्धिमत्ता दिखाना, या चीजों को आसानी से सीखने और समझने में सक्षम)
favoured	supported or preferred over anyone or anything else. (किसी को या किसी और चीज पर समर्थित या पसंद किया गया)
wise	having or showing the ability to make good judgments, based on a deep understanding and experience of life. (जीवन की गहरी समझ और अनुभव के आधार पर अच्छे निर्णय लेने की क्षमता होना या दिखाना)

- The context of the sentence is that the subject was lucky and unexpectedly got a good job opportunity after completing college.
- According to the above-mentioned points, the most appropriate word to fill in the blank is "fortunate."
- Therefore, the correct answer is Option 1.

- Another example :
  - Rohit was so **fortunate** to have such a wonderful family *.*

Complete Sentence:*He was*_fortunate_*to get a good job as soon as he was out of college.*

---

87. Answer: b

Explanation:

The correct answer is option 2) i.e. 'raining heavily . '

⭐ <u>Key Points</u>

- The error lies in Part (raining heavy)of the sentence.
- As per instructions, the remaining portion of the sentence is correct
- In the erroneous part we have to change the adjective **'heavy'** and use an adverb in place of it.
- The adverb **'heavily'** will be used to convey the meaning of severe or intense rain.
- Therefore, the use of the adjective'heavy' in the sentence should be replaced with the adverb 'heavily' to make it grammatically correct .
- Therefore, the correct answer is Option 2.

Correct sentence:*Yesterday, it was<u>raining heavily</u>when I met him at the station.*

---

88. Answer: b

Explanation:

The erroneous part is option 2) i.e. 'but they are let them out .'

⭐ **Key Points**

- The error lies in the part'but they are let them out.'
- In the erroneous part, both **'they'** (Nominative Case) and **'them** (Objective Case) are pronoun forms of the noun **'The prisoners.'**
- According to the rules of pronouns, both the Nominative Case and Objective Case of personal pronouns cannot be used together.
- Therefore as the given sentence, we need to use 'they'and omit'them' to make the sentence grammatically correct.
- Hence, the correct answer is option 2.

Correct sentence:*The prisoners are kept inside most of the time **but they are let out** for an hour every day.*

---

89. Answer: d

Explanation:

The correct answer is option 4) i.e. 'Implement .'

⭐ **Key Points**

- Let's look at the meaning of the given word :

Word	Meaning
Execute	to do or perform something, especially in a planned way . (कुछ करना या करना, विशेषकर नियोजित तरीके से)

- Let's look at the meaning of the words given in the options:

Word	Meaning
Organise	to make arrangements for something to happen . (कुछ घटित होने की व्यवस्था करना)
Destroy	to damage something so badly that it cannot be used . (किसी चीज को इतनी बुरी तरह खराब करना कि उसका उपयोग न किया जा सके)
Employ	to have someone work or do a job for you and pay them for it . (किसी से काम करवाना या आपके लिए नौकरी करना और उन्हें इसके लिए भुगतान करना)
Implement	to start using a plan or system . (एक योजना या प्रणाली का उपयोग शुरू करने के लिए)

- Clearly,the word' Implement 'isclosest in meaningto the given word' Execute .'
- Therefore,the correct synonym of the given word isoption 4.

---

90. **Answer: b**

Explanation:

The erroneous part is option 2) i.e. 'while you hurry .'

⭐ <u>Key Points</u>

- The error lies in the part 'while you hurry.'
- According to grammar, **'while'** is used when two continuous actions take place at the same time.
- A ccording to the rules of conditional sentences, the sentences start with 'unless/until'   are structured like:
  - Unless/until + affirmative sentence in present tense + simple future in negative.
- Therefore i n the given sentence, we need to use 'unless' in place of 'while' to make the sentence grammatically correct.
- Hence, the correct answer is option 2.

<u>Correct sentence:</u>*You will not be able to reach on time* **unless you hurry.**

---

91. Answer: b

Explanation:

The correct answer is option 2) i.e. "Do something repeatedly . "

⭐ <u>Key Points</u>

- Let's look at the meaning of the given idiom/ phrase:
- The phrase 'Over and over again 'means ' something happening in frequent intervals or again and again.'
- *Example*:
  - *I love to watch the movie Shawshank Redemption* **over and over again .**
- Hence, the only possible answer is option 2 'Do something repeatedly,' which exactly resembles the meaning of the given idiom/ phrase.

<u>Correct meaning:</u>*Do something repeatedly.*

---

92. Answer: c

Explanation:

The correct answer is option 3) i.e. "Electrolite."

⭐ Key Points

- The correct spelling is 'Electrolyte .'
- ' Electrolyte ' means a liquid that electricity can go through or that breaks into its parts when electricity goes through it. (एक तरल जिसके माध्यम से बिजली जा सकती है या जो बिजली के माध्यम से जाने पर उसके हिस्सों में टूट जाती है)
- Therefore, 'Electrolite'is incorrectly spelt among the given options.
- Hence, option 3 is the correct answer.

⭐ Additional Information

- Let's know the meaning of the other options:

Word	Meaning
Environmental	relating to the environment. (पर्यावरण से संबंधित)
Equipment	the set of necessary tools, clothing, etc. for a particular purpose. (किसी विशेष उद्देश्य के लिए आवश्यक उपकरण, कपड़े आदि का सेट)
Experimental	using new methods, ideas, substances, etc. that have not been tried before, usually in order to find out what effect they have. (नए तरीकों, विचारों, पदार्थों आदि का उपयोग करना, जिन्हें पहले नहीं आजमाया गया है, आमतौर पर यह पता लगाने के लिए कि उनका क्या प्रभाव है)

93. Answer: b

Explanation:

The correct answer is option 2) i.e. 'Incredible .'

⭐ Key Points

- Let's look at the meaning of the marked option :

Word	Meaning
Incredible	impossible or very difficult to believe. (असंभव या विश्वास करना बहुत कठिन)

- Example :
  - *The girl tells an* **incredible** *story.*
- Let's look at the meanings of the other given options:

Word	Meaning
Magic	the use of special powers to make things happen that would usually be impossible, such as in stories for children. (ऐसी चीजें करने के लिए विशेष शक्तियों का उपयोग करना जो आमतौर पर असंभव होतीं, जैसे कि बच्चों के लिए कहानियों में)
Fictitious	invented and not true or not existing. (आविष्कृत और सत्य नहीं है या विद्यमान नहीं है)
Implausible	difficult to believe; not probable. (विश्वास करना मुश्किल; संभव नहीं)

- Hence, from the given meanings, we find that 'Incredible 'is the correct one-word substitute.
- So, the correct answer is option 2.

Correct one-word substitute:*Incredible.*

---

94. Answer: b

Explanation:

The correct answer is option 2) i.e. 'you will not pass . '

⭐ Key Points

- The error lies in Part (you will pass)of the sentence.
- As per instructions, the remaining portion of the sentence is correct.

- In the erroneous part according to the rules of conditional sentences, the sentences start with **'unless/until'** are structured like:
  - **Unless/until + affirmative sentence in present tense + simple future in negative.**
- Example:
  - *Unless he takes care of his food habits, he will not feel fit and fine.*
- So we have to add 'not' after 'will.'
- Therefore, the use of 'will' in the sentence should be replaced with 'will not' to make it grammatically correct .
- Therefore, the correct answer is Option 2.

Correct sentence:*Unless you study hard, <u>you will not pass</u> the examination.*

---

95. Answer: d

Explanation:

The correct answer is option 4) i.e. 'recently.'

⭐ Key Points

- Let's look at the meaning of the words given in the options:

Word	Meaning
freshly	recently done. (हाल ही में किया)
shortly	in or within a short time; quickly. (में या थोड़े समय के भीतर; तुरंत)
exactly	used when you are giving or asking for information that is completely correct. (उपयोग तब किया जाता है जब आप पूरी तरह से सही जानकारी दे रहे हों या मांग रहे हों)
recently	not long ago, or at a time that started not long ago. (बहुत पहले नहीं, या ऐसे समय में जो बहुत पहले शुरू नहीं हुआ था)

- The context of the sentence is that someone has bought a new car not a long time ago.
- Also, the verb 'bought' is in past form and shows the action of buying a car is completed in the past.
- Here, 'recently' is used as an adverb for time.
- According to the above-mentioned points, the most appropriate word to fill in the blank is "recently."
- Therefore, the correct answer is Option 4.

- Another example :
    - Her father was very ill, and he **recently** passed away .

Complete Sentence:*My brother<u>recently</u>bought a new car.*

---

96. **Answer: c**

Explanation:

The correct answer is option 3) i.e. 'in.'

⭐ **Key Points**

- Let's look at the use of the prepositions given in the options:

Preposition	Usage
for	to denote intention to give; purpose; the result of something; show an amount of time or distance.
about	used to indicate movement within a particular area; to indicate the subject of concern.
in	used to denote when something is inside another thing; to denote unspecified place times, months, years, and seasons; used to indicate inclusion within something abstract or immaterial.
on	to denote when a thing is touching the surface of a place; to denote dates and days.

- The context of the sentence is that the practice of acupuncture began in China as a method of disease treatment nearly five thousand years ago.
- Here the preposition 'in' will be used to indicate the country China, and no particular place is not mentioned here.
- According to the above-mentioned points, the most appropriate preposition to fill in the blank is "in."
- Therefore, the correct answer is Option 3.

Complete passage:Acupuncture, a system of treatment of diseases, has been practiced*(1) in*China for nearly five thousand years. It consists of rapid*(2) insertion*of fine steel needles, about 6 cm long, in particular*(3) spots*on the body of the patient. After this, the doctor twirls the needle*(4) between*his thumb and forefinger. When a puncture is made on a spot on the body, energy*(5) flows*from there along lines known as "meridians" to the diseased organs.

---

97. **Answer: c**

Explanation:

The correct answer is option 3) i.e. 'insertion.'

⭐ <u>Key Points</u>

- Let's look at the meaning of the words given in the options:

Word	Meaning
position	the place where something or someone is, often in relation to other things. (वह स्थान जहाँ कोई चीज़ या कोई है, अक्सर अन्य चीज़ों के संबंध में)
manipulation	controlling someone or something to your own advantage. (अपने फायदे के लिए किसी को या किसी चीज को नियंत्रित करना)
insertion	the act of putting one thing into something else. (एक वस्तु को दूसरी वस्तु में डालने की क्रिया)
perfection	the state of being complete and correct in every way. (हर तरह से पूर्ण और सही होने की अवस्था या भाव)

- The context of the sentence is that acupuncture consists of **putting sharp needles into particular places on the patient's body.**
- According to the above-mentioned points, the most appropriate word to fill in the blank is "insertion."
- Therefore, the correct answer is Option 3.

<u>Complete passage:</u>Acupuncture, a system of treatment of diseases, has been practiced *(1) in*China for nearly five thousand years. It consists of rapid *(2) insertion*of fine steel needles, about 6 cm long, in particular *(3) spots*on the body of the patient. After this, the doctor twirls the needle *(4) between*his thumb and forefinger. When a puncture is made on a spot on the body, energy *(5) flows*from there along lines known as "meridians" to the diseased organs.

---

98. **Answer: d**

Explanation:

The correct answer is option 4) i.e. 'spots.'

⭐ <u>Key Points</u>

- Let's look at the meaning of the words given in the options:

Word	Meaning
regions	a particular area or part of the world, or any of the large official areas into which a country is divided. (दुनिया का एक विशेष क्षेत्र या हिस्सा, या कोई भी बड़ा आधिकारिक क्षेत्र जिसमें कोई देश विभाजित है)
fields	an area of land, used for growing crops, keeping animals or playing sports. (भूमि का एक क्षेत्र, जिसका उपयोग फसल उगाने, जानवरों को रखने या खेल खेलने के लिए किया जाता है)
design	a pattern used to decorate something. (किसी चीज को सजाने के लिए इस्तेमाल किया जाने वाला पैटर्न)
spots	a particular place. (एक विशेष स्थान)

- The context of the sentence is that acupuncture consists of putting 6 cm long sharp needles quickly into **particular places on the patient's body** to cure diseases.
- According to the above-mentioned points, the most appropriate word to fill in the blank is "spots."
- Therefore, the correct answer is Option 4.

<u>Complete passage:</u>Acupuncture, a system of treatment of diseases, has been practiced*(1) in*China for nearly five thousand years. It consists of rapid*(2) insertion*of fine steel needles, about 6 cm long, in particular*(3) spots*on the body of the patient. After this, the doctor twirls the needle*(4) between*his thumb and forefinger. When a puncture is made on a spot on the body, energy*(5) flows*from there along lines known as "meridians" to the diseased organs.

---

99. **Answer: d**

Explanation:

The correct answer is option 4) i.e. ' between .'

⭐ <u>Key Points</u>

- Let's look at the use of the prepositions given in the options:

Preposition	Usage
across	to indicate the movement of someone or something on, at, to or from the other side.
through	to denote from one end or side of something to the other; or from the beginning to the end of a period of time; or as a result of.
among	to indicate the idea of being part of a group or in the midst of a group.
between	used to describe something being in the middle of two other things.

- The context of the sentence is that during acupuncture, the physician rotates the needle putting it in the middle of his thumb and forefinger.
- According to the above-mentioned points, the most appropriate preposition to fill in the blank is "between."
- Therefore, the correct answer is Option 4.

<u>Complete passage:</u>Acupuncture, a system of treatment of diseases, has been practiced*(1) in*China for nearly five thousand years. It consists of rapid*(2) insertion*of fine steel needles, about 6 cm long, in particular*(3) spots*on the body of the patient. After this, the doctor twirls the needle*(4) between*his thumb and forefinger. When a puncture is made on a spot on the body, energy*(5) flows*from there along lines known as "meridians" to the diseased organs.

---

100. **Answer: c**

Explanation:

The correct answer is option 3) i.e. 'flows.'

⭐ Key Points

- Let's look at the meaning of the words given in the options:

Word	Meaning
results	something that happens or exists because of something else. (कुछ ऐसा जो किसी और चीज के कारण होता है या मौजूद होता है)
blushes	to become pink in the face, usually from embarrassment. (चेहरे का गुलाबी होना, आमतौर पर शर्मिंदगी से)
flows	the movement of something in one direction (especially of liquids, gases, or electricity). (एक दिशा में किसी चीज की गति (विशेषकर तरल पदार्थ, गैस या बिजली की))
substitutes	to use something or someone instead of another thing or person. (किसी वस्तु या व्यक्ति के स्थान पर किसी अन्य वस्तु या व्यक्ति का प्रयोग करना)

- The context of the sentence is that during acupuncture, **energy moves** along "meridians" to the sick organs when a spot on the body is punctured.
- According to the above-mentioned points, the most appropriate word to fill in the blank is "flows."
- Therefore, the correct answer is Option 3.

Complete passage:Acupuncture, a system of treatment of diseases, has been practiced*(1) in*China for nearly five thousand years. It consists of rapid*(2) insertion*of fine steel needles, about 6 cm long, in particular*(3) spots*on the body of the patient. After this, the doctor twirls the needle*(4) between*his thumb and forefinger. When a puncture is made on a spot on the body, energy*(5) flows*from there along lines known as "meridians" to the diseased organs.