STAFF SELECTION COMMISSION
Multi Tasking (Non-Technical) Staff
SOLVED PAPER
(14th September 2023: Shift-1)

Time Allotted- 90 Minutes   **Max marks-** 270

Important Instructions:-
⇨ This paper contains 90 questions which are divided into 4 sections and 2 sections each has 20 questions each and other 2 has 25 questions each.
  ✓ General English   ✓ General Intelligence & Reasoning
  ✓ Numerical Aptitude   ✓ General Awareness
⇨ There will be 3 marks for each correct answer and also there is no negative marking in General Intelligence & Reasoning and Numerical Aptitude sections. But in the General Awareness & General English sections, there is a negative marking of one mark for each wrong answer.
⇨ Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

General English

1. Select the most appropriate option to fill in the blank.
Dr. APJ Abdul Kalam was a great man with a high level of _____.
1. intelligent humour
2. wise boredom
3. intellect
4. clever fatigue

2. The following sentence contains some errors. Select the option that correctly rectifies the error.
The forses that genarate conditions conduciive to crime and riiots are stronger in urban communities than in rurral areas.
1. The forsec that genarate conditions conduciive to crime and riots are stronger in urban communities than in rurall areas.
2. The forces that genereta conditions conducieve to crime and riotts are stronger in urban communities than in rural areas.
3. The forces that generate conditions conducive to crime and riots are stronger in urban communities than in rural areas.
4. The forces that ganarete conditions conduciive to crime and riots are stronger in urban communities than in ruraal areas.

3. Select the most appropriate option that can substitute the underlined segment in the given sentence.
I found my teacher's points casual and informal in the group discussion.
1. flesh and blood
2. free and easy
3. foot the bill
4. fair and square

4. Select the word which means the same as the group of words given.
One who is all powerful.
1. Omnipresent
2. Omnipotent
3. Optimist
4. Omniscient

5. Select the most appropriate option that can substitute the underlined segment in the given sentence.
Ramesh is owning a beautiful house in Noida.
1. did owned
2. owns
3. has owning
4. was owned

6. Parts of the following sentence have been given as options. Select the option that contains an error.
When Nisha will have finished her task?
1. have
2. when Nisha will
3. finished
4. her task

7. Select the most appropriate option that can substitute the underlined segment in the given sentence.
He push the bushes aside and went a little farther.
1. pushed with bush
2. pushing the bush
3. pushes in bush
4. pushed the bushes

8. Select the option that can be used as a one-word substitute for the given group of words.
Copying someone else's work and trying to submit it as your own
1. Plagiarism
2. Polygamy
3. Preamble
4. Extempore

9. Select the most appropriate meaning of the given idiom.
Beauty of it
1. Make things worse
2. Cause for dispute
3. Quite ordinary
4. Good points

10. Select the most appropriate synonym of the underlined word.
The girl was manacled and locked in the room.
1. unfastened   2. liberated   3. fettered   4. unbinded

11. Select the most appropriate ANTONYM of the underlined word.
Addiction of drugs proved detrimental for his health.
1. Impartial
2. Potential
3. Beneficial
4. Differential

12. Select the most appropriate synonym of the given word.
Plunge
1. Transgress   2. Dive   3. Rush   4. Fly

13. Select the INCORRECTLY spelt word.
1. Tomatos   2. Weather   3. Vehicle   4. Professor

14. Select the most appropriate option that can rectify the underlined segment in the given sentence. If there is no need to rectify it, select 'no rectification needed'.
I used a variety of sources to find the more cheap flight.
1. no rectification needed
2. cheaper
3. cheapest
4. cheap

15. Select the INCORRECTLY spelt word in the given sentence.
All the members of my family are planning to visit Jammu and Kashmir this Novembur.
1. Novembur   2. Planning   3. Visit   4. Members

16. Parts of the following sentence have been given as options. Select the option that contains an error.

Ravi will go to the England.

1. the England   **2.** will   **3.** Ravi   **4.** go to

17. Select the most appropriate response in the given situation of the eve of a battle to fill in the blank.

The commander: "Honourable Emperor, all the troops have lined up for the battle and are awaiting your orders." Emperor Chandragupta Maurya: "_____."

1. We will march at dawn.

2. You should learn how to talk to an emperor.

3. We will be playing cards.

4. We are ready for the pilgrimage.

18. Select the most appropriate meaning of the underlined idiom.

We prefer going to movies <u>once in a blue moon</u>.

1. Very rarely   **3.** Very diligently

2. Very amazingly   **4.** Very often

19. The following sentence has been split into four segments. Identify the segment that contains an error.

My father told me/that in his childhood/he was walking/to school every day.

1. he was walking   **3.** my father told me

2. that in his childhood   **4.** to school every day

20. Select the most appropriate meaning of the underlined idiom in the given sentence.

Today's question paper felt <u>like a cakewalk</u>.

1. Very sweet   **3.** Very easy

2. Very tasty   **4.** Very difficult

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Modern football (1)_____ in Britain in the 19th century. Since before medieval times, 'folk football' games had been played in towns and villages according to local customs and with a (2)_____ of rules. Industrialisation and (3)_____, which reduced the amount of leisure time and space available to the working class, combined with a history of legal prohibitions against particularly (4)_____ and destructive forms of folk football to undermine the game's status from the early 19th century onward. However, football was taken up as a winter game between residence houses at public (independent) schools such as Winchester, Charterhouse and Eton. Each school had its own rules; some allowed limited handling of the ball and others did not. The (5)_____ in rules made it difficult for public schoolboys entering university to continue playing except with former schoolmates.

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

1. terminated   **3.** originated

2. culminated   **4.** fragmented

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

1. optimum   **2.** variance   **3.** minimum   **4.** maximum

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

1. normalisation   **3.** standardisation

2. urbanisation   **4.** implementation

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

1. traces   **3.** calm

2. undercurrents   **4.** violent

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

1. grouse   **2.** grunt   **3.** variance   **4.** control

General Intelligence & Reasoning

26. Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion's logically follow's from the given statements.

Statements: All trucks are bikes. All bikes are carts. Some carts are pens.

Conclusion I: Some trucks are carts

Conclusion II: No bikes are pens.

1. Only conclusion (II) follow.

2. Both conclusions (I) and (II) follow.

3. Neither conclusion (I) nor (II) follow.

4. Only conclusion (I) follow.

27. What will come in the place of '?' in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

$357 \times 7 + 19 \div 2 - 38 = ?$

1. 51   **2.** 71   **3.** 61   **4.** 41

28. RN 12 is related to PL 16 in a certain way. In the same way, EJ 17 is related to CH 21. To which of the following is FL 15 related to following the same logic?

1. DJ 19   **2.** HN 18   **3.** CI 20   **4.** DK 19

29. Which figure should replace the question mark (?) if the following figure series were to be continued?

1.   **3.**

2.   **4.**

30. Select the combination of letters that when sequentially placed in the blanks of the given series will make it logically complete.

PYJ_ S_LM _YNM YY_M B_RM

1. PMGHY   **2.** HAPPY   **3.** MHAPV   **4.** MYVPY

31. What should come in place of '?' in the given series?

3 21 111 561 2811 ?

1. 12952   **2.** 13468   **3.** 14061   **4.** 12786

32. Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series.

_ FFEF _ _ FF _ F _

1. EEEFE   **2.** EFFEF   **3.** EFEEF   **4.** EFFEE

33. Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements: Some chargers are metal. All metal are hard. Some hard are stools.

Conclusion I: All chargers are metal.

Conclusion II: Some stools are hard.

1. Both conclusions (I) and (II) follow.

2. Neither conclusion (I) nor (II) follow.

3. Only conclusion (I) follow.

4. Only conclusion (II) follow.

34. Kiran, Pihu, Siya, Leena, Reena and Jiya are sitting around a circular table facing the centre.

Kiran sits 3rd to the right of Pihu. Siya sits 2nd to the right of Kiran. Leena sits 3rd to the left of Siya. Reena is an immediate neighbour of Leena.

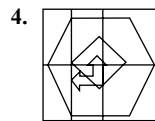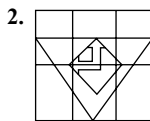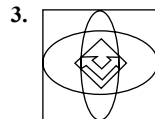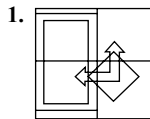Who sits to the immediate left of Jiya?

1. Leena   **2.** Siya   **3.** Pihu   **4.** Kiran

35. If 'I' stands for '+', 'J' stands for '×', 'K' stands for and '÷', 'L' stands for '−', what will come in place of the question mark (?) in the following equation?

(95 K 19) J 7 L 15 I (10 J 4) = ?

1. 50   **2.** 40   **3.** 70   **4.** 60

36. Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).

1.   **3.**

2.   **4.**

37. 428 is related to 317 following a certain logic. Following the same logic, 285 is related to 174. To which of the following is 597 related to, following the same logic?

1. 386   **2.** 368   **3.** 468   **4.** 486

38. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

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

(14, 42, 7)

(12, 34, 5)

1. 43, 144, 29   **2.** 17, 102, 5   **3.** 25, 131, 2   **4.** 36, 702, 2

39. If 5th May 2010 is Wednesday, then what will be the day of the week on 5th June 2022?

1. Tuesday   **3.** Wednesday

2. Monday   **4.** Sunday

40. What should come in place of the question mark (?) in the given series based on the English alphabetical order?
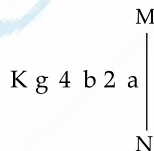
YFD, VJA, SNX, PRU, ?

1. MXS   **2.** MVR   **3.** NWS   **4.** NWR

41. What should come in place of? in the given series?

26 37 59 92 136 ?

1. 192   **2.** 191   **3.** 190   **4.** 193

42. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M

K g 4 b 2 a

N

1. ɒ S d 4 ǫ ʞ   **3.** ɒ S d 4 ǫ ʞ

2. ɒ S d 4 ǫ ʞ   **4.** ɒ S d 4 ǫ ʞ

43. What should come in place of '?' in the given series?

14   85   511   3067   18403 ?

1. 110279   **2.** 110581   **3.** 110119   **4.** 110419

44. In a certain code language, 'NAIL' is coded as '2637' and 'LANE' is coded as '3278'. What is the code for 'E' in the given code language?

1. 8   **2.** 7   **3.** 2   **4.** 3

45. In a certain code language, MENTOR is coded as 'EMOUPS' and 'OCTAGON' is coded as 'COUBHPO'. What is the code for 'PENCIL' in the given code language?

1. EPLICN   **2.** LINCENP   **3.** PLICNE   **4.** EPODJM

Numerical Aptitude

46. A and B can do a piece of work in 30 day and 40 days, respectively. They began the work together but after a certain time. A leaves off and B completed the remaining work in 25 days. After how many days did A leave?

1. $6\dfrac{3}{7}$ **2.** $5\dfrac{3}{7}$ **3.** $5\dfrac{2}{7}$ **4.** $6\dfrac{1}{7}$

47. 6 skilled workers can complete a work in 4 days. After three days 3 more skilled workers joined them. How many days will they now take to complete the remaining work?

1. $\dfrac{2}{3}$ **2.** $\dfrac{1}{2}$ **3.** $\dfrac{1}{3}$ **4.** $\dfrac{3}{4}$

48. In a class of boys and girls, the number of girls is twice the number of boys. If 20 more boys join the class, the ratio of girls and boys is 1 : 1. How many total students were there in the class initially?

1. 60   **2.** 75   **3.** 45   **4.** 90

49. Atul sells goods to a customer at a profit of P%. If the cost price of the goods for the customer is ₹ 1,50,000 and Atul makes a profit of ₹ 30,000, then what is the value of P?

1. 22   **2.** 25   **3.** 20   **4.** 28

50. Mixture 1 with a volume 8 litres has 80% milk and Mixture 2 with a volume of 6 litres has 60% milk. Both the mixtures are mixed. Find the percentage of milk in the final mixture.

1. $\dfrac{600}{7}$ **2.** $\dfrac{500}{9}$ **3.** $\dfrac{500}{7}$ **4.** $\dfrac{800}{9}$

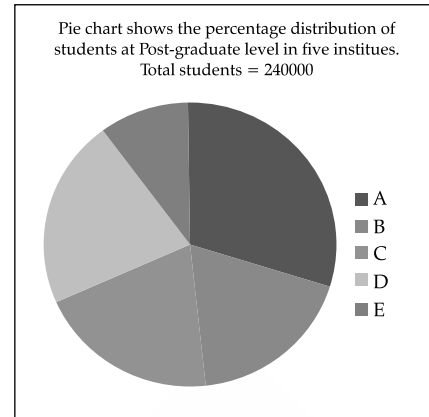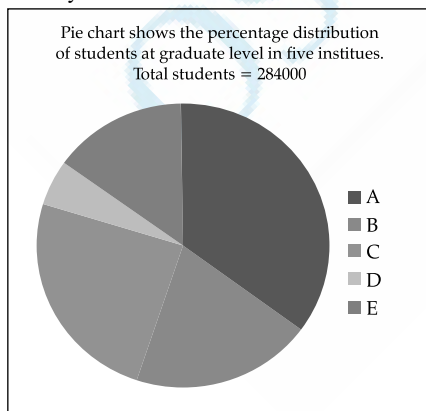**51.** Study the given table and answer the question that follows.

The table shows the number of students appeared and passed in different fields in a University.

Years	Medical		Engineering		Commerce		Management	
	Appeared	Passed	Appeared	Passed	Appeared	Passed	Appeared	Passed
2010	300	250	460	256	380	352	365	322
2011	345	320	440	365	401	354	314	314
2012	280	240	384	327	460	400	378	344
2013	310	230	390	290	430	392	387	353
2014	450	380	415	358	388	352	270	227
2015	380	286	486	456	366	315	290	257

What percentage of total students appearing in 2011, appeared in the medical field?

1. 23%   **2.** 21%   **3.** 20%   **4.** 25%

52. A thief is spotted by a policeman from a distance of 250 m. When the policeman starts chase, the thief also starts running. Assuming that the speed of the thief is 10 km/h and that of the policeman is 12.5 km/h. How far will have the thief run before he is caught?
    1. 3 km   **2.** 1 km   **3.** 4 km   **4.** 2 km

53. Simplify: $6\dfrac{4}{5} \div \left[4\dfrac{1}{4} \div \left\{ 5\dfrac{1}{2} \times \dfrac{3}{8} + \left(3\dfrac{1}{2} + \dfrac{2}{3} \right) \times \dfrac{4}{5} \right\} \right]$
    1. $8\dfrac{8}{15}$ **2.** $7\dfrac{8}{25}$ **3.** $8\dfrac{8}{25}$ **4.** $7\dfrac{8}{15}$

54. Amit drove for 6 hours at a speed of 60 miles per hour and for 6 hour at 40 miles per hour. What was his average speed (in miles per hour) for the whole journey?
    1. 48   **2.** 44   **3.** 46   **4.** 50

55. A jewel was sold passing through 3 hands and on the whole, its price is raised by 80%. The first seller earns 20% profit and the second seller earns 25% profit, respectively. Find the percentage of profit earned by the third seller.
    1. 20%   **2.** 10%   **3.** 15%   **4.** 5%

56. A certain sum is invested at a simple interest rate of 12% per annum for a certain period of time. If the sum becomes four times the principal at the end of the period, what is the duration of the investment?
    1. 22 years   **2.** 24 years   **3.** 25 years   **4.** 20 years

57. Mr. Kalra borrowed ₹ 1,35,000 to meet the expenses of his son's education. If the rate of interest is 12% per annum compounded annually, then how much amount will he have to make after 2 years and 3 months to settle the account?
    1. ₹ 1,74,424.32   **3.** ₹ 1,49,920.32
    2. ₹ 1,50,640.40   **4.** ₹ 1,74,760

58. The ratio of two numbers is 7: 11 and their LCM is 462. What is the difference between these two numbers?
    1. 24   **2.** 26   **3.** 30   **4.** 28

59. The diameter of the base of a cylindrical vessel is 30 cm and its height is 56 cm. Find its curved surface area (in cm^2).
    1. 6080   **2.** 6280   **3.** 5280   **4.** 5080

60. The length, breadth and height of a cuboid are in the ratio of 6 : 4 : 3. If the total surface area of the cuboid is 972 cm^2, what is the length (in cm) of the diagonal of the cuboid?
    1. $5\sqrt{65}$ **2.** $3\sqrt{61}$ **3.** $3\sqrt{65}$ **4.** $5\sqrt{61}$

61. Three numbers are in the ratio 1 : 2 : 3. By adding 5 to each of the numbers then the ratio changes to 2 : 3 : 4. The smallest number is:
    1. 5   **2.** 15   **3.** 12   **4.** 20

62. The following pie-charts show the distribution of students of graduate and post-graduate levels in five different institutes in a city.

Pie chart shows the percentage distribution of students at graduate level in five institues.
Total students = 284000

Pie chart shows the percentage distribution of students at Post-graduate level in five institues.
Total students = 240000

What is the total number of students from institutes A, C and E at the graduate level and from institutes B and D at the post-graduate level?
    1. 390000   **2.** 300900   **3.** 300090   **4.** 309000

63. The distance between two towns is covered in 9 hours at a speed of 60 kmph. By how much should the speed (in km/h) be increased so that 1 hour of the travelling time is saved?
    1. 7.5   **2.** 10   **3.** 15   **4.** 12.5

64. A man decided to cover 7.5 km in 72 minutes. He decided to cover two thirds of the distance at 5 km/h and the remaining at some different speed. Find the speed after two third distance has been covered.
    1. 14.3 km/h   **2.** 15.5 km/h   **3.** 12.5 km/h   **4.** 10 km/h

65. Rickey spends 35% of his salary on groceries, 15% on loans, 14% on electricity bills and 6% on miscellaneous. If his savings at the end of a month are ₹ 2,400, then his salary per month (in ₹) is:
    1. 8,000   **2.** 5,828   **3.** 4,000   **4.** 6,000

General Awareness

66. Identify the vector quantity among these listed physical quantities?
    1. Energy   **3.** Density
    2. Mass   **4.** Gravitational Intensity

67. 'The Palace of Illusions', a rendition of the Hindu epic 'Mahabharata', was written by which of the following novelists?
    1. Chitra Banerjee Divakaruni   **3.** Devi Yesodharan
    2. Pratibha Ray   **4.** Indu Sundaresan

68. G Krishnakumar was appointed chairman of which of the following in 2023?
    1. Oil and Natural Gas Corporation Limited
    2. Indian Oil Corporation Limited
    3. Bharat Petroleum Corporation Limited
    4. Hindustan Petroleum Corporation Limited

69. _____ was the first Indian woman to write an autobiography and also the first to do so in Bengali in her book titled 'Aamar Jiban', which was published in 1876.
    1. Rassundari Devi   **3.** Sarala Devi Chaudhurani
    2. Manikuntala Sen   **4.** Santisudha Ghosh

70. Where is the Vivekanand Rock Memorial situated?
    1. Port Blair   **3.** Kanyakumari
    2. Vishakhapatnam   **4.** Chennai

71. Under which Act was the rule of British Crown established over India?
    1. Government of India Act 1833
    2. Charter Act of 1813
    3. Regulating Act of 1773
    4. Government of India Act 1858

72. The Kolar region of Karnataka is famous for which mineral from the following?
    1. Coal   2. Gold   3. Petroleum   4. Copper

73. Match the following performances of Indian naatya, which were preseated by the means of variegated components:
1) Angika	(a)	costumes and make-up
2) Vachika	(b)	depiction of mental or psychological states
3) Aharya	(c)	spoken words
4) Sattvika	(d)	gestures and other bodily movements

    1. 1-c, 2-b, 3-d, 4-a   3. 1-d, 2-c, 3-a, 4-b
    2. 1-a, 2-b, 3-d, 4-c   4. 1-c, 2-a, 3-b, 4-d

74. In Fencing, a contest between the two fencers is known as:
    1. bout   2. remise   3. parry   4. riposte

75. In which year has the Government of India instituted Arjuna Award to recognise outstanding achievement in national sports events?
    1. 1961   2. 1963   3. 1964   4. 1962

76. 'Atla Taddi', a festival celebrated by married and unmarried women alike to seek the blessings of Devi Gauri for a long and happy married life and a suitable groom, respectively, is celebrated in _____.
    1. Andhra Pradesh   3. Chhattisgarh
    2. Kerala   4. Odisha

77. PT Usha was elected as the president of which association in December 2022?
    1. Indian Olympic Association
    2. Haryana Olympic Association
    3. National Rifle Association of India
    4. Badminton Association of India

78. As per the NITI Aayog's first Multidimensional Poverty Index (MPI) 2021 report, which state in India ranks first?
    1. Jharkhand   3. Bihar
    2. Chhattisgarh   4. Uttar Pradesh

79. What is the full form of UPSC?
    1. United Public Security Commission
    2. United Power & Security Commission
    3. Union Private Service Committee
    4. Union Public Service Commission

80. To which of the state does Sattriya classical dance belong?
    1. Maharashtra   3. Karnataka
    2. Madhya Pradesh   4. Assam

81. Who among the following was a renowned dancer and the first person from Odisha to receive 'Padma Vibhushan' in 2000?
    1. Prabhat Swain   3. Mayadhar Raut
    2. Gangadhar Pradhan   4. Kelucharan Mohapatra

82. Which musical instrument does N Rajam play?
    1. Sitar   3. Santoor
    2. Violin   4. Guitar

83. Which of the following is NOT a function of money?
    1. Barter system   3. Unit of account
    2. Store of value   4. Medium of exchange

84. According to the Census of India 2011, what was the population density recorded in Bihar?
    1. 1106 persons/km^2 3. 1050 persons/km^2
    2. 980 persons/km^2 4. 1320 persons/km^2

85. Carbohydrates are utilised by the human body in the form of:
    1. glucose   3. fibre
    2. nucleotides   4. amino acids

86. Which Indian musician is associated with the tabla?
    1. Ustad Bismillah Khan   3. Pandit Ravishankar
    2. Zakir Hussain   4. Ilaiyaraja

87. On whose advice did Gandhiji spend a year travelling around British India to know the people of India?
    1. Krishnashankar Pandya   3. Shrimad Rajchandra
    2. Mohammad Ali Jinnah   4. Gopal Krishna Gokhale

88. Which deficit reflects the borrowing needs of the government?
    1. Capital deficit   3. Primary deficit
    2. Revenue deficit   4. Fiscal deficit

89. Which of the following fundamental duties was added to the Indian Constitution by the 86th Constitutional Amendment Act, 2002?
    1. To abide by the Constitution and respect its ideals and institutions, the National Flag and the National Anthem
    2. To protect and to improve the natural environment including forests, lakes, rivers and wildlife, and to have compassion for living creatures
    3. To provide opportunities for education to his/her child or, as the case may be, ward between the age of six and fourteen years
    4. To cherish and follow the noble ideals which inspired our national struggle for freedom

90. Which of the following rocks are formed during rock metamorphism?
    1. Slate   3. Sandstone
    2. Conglomerate   4. Basalt

Answer Key

|																			
1.	(3)	**2.**	(3)	**3.**	(2)	**4.**	(2)	**5.**	(2)	**6.**	(2)	**7.**	(4)	**8.**	(1)	**9.**	(4)	**10.**	(3)
11.	(3)	**12.**	(2)	**13.**	(1)	**14.**	(3)	**15.**	(1)	**16.**	(1)	**17.**	(1)	**18.**	(1)	**19.**	(1)	**20.**	(3)
21.	(3)	**22.**	(3)	**23.**	(2)	**24.**	(4)	**25.**	(3)	**26.**	(4)	**27.**	(1)	**28.**	(1)	**29.**	(3)	**30.**	(4)
31.	(3)	**32.**	(3)	**33.**	(4)	**34.**	(4)	**35.**	(4)	**36.**	(2)	**37.**	(4)	**38.**	(1)	**39.**	(4)	**40.**	(2)
41.	(2)	**42.**	(4)	**43.**	(4)	**44.**	(1)	**45.**	(4)	**46.**	(1)	**47.**	(1)	**48.**	(1)	**49.**	(2)	**50.**	(3)
51.	(1)	**52.**	(2)	**53.**	(1)	**54.**	(4)	**55.**	(1)	**56.**	(3)	**57.**	(1)	**58.**	(1)	**59.**	(3)	**60.**	(2)
61.	(1)	**62.**	(4)	**63.**	(1)	**64.**	(3)	**65.**	(1)	**66.**	(4)	**67.**	(1)	**68.**	(3)	**69.**	(1)	**70.**	(3)
71.	(4)	**72.**	(2)	**73.**	(3)	**74.**	(1)	**75.**	(1)	**76.**	(1)	**77.**	(1)	**78.**	(3)	**79.**	(4)	**80.**	(4)
81.	(4)	**82.**	(2)	**83.**	(1)	**84.**	(1)	**85.**	(1)	**86.**	(2)	**87.**	(4)	**88.**	(4)	**89.**	(3)	**90.**	(1)

Answers with Explanations

1. **Option (3) is correct.**
   The noun 'intellect' is appropriate for the blank, because by the process of elimination, we negate options (2) and (4) since they contain negative nouns. The use of 'a great man' mandates the use of positive nouns. But 'humour' is not suitable for the blank. While 'intellect' refers to 'the ability to

understand and to think in an intelligent way'. So this justifies the greatness of Kalam.

2. **Option (3) is correct.**
The correct sentence is: The forces that generate conditions conducive to crime and riots are stronger in urban communities than in rural areas. The given sentence has errors in the use of 'genarate', 'conduciive', 'riiots', 'rurral'.

3. **Option (2) is correct.**
The correct sentence is: I found my teacher's points free and easy in the group discussion. The phrase 'free and easy' will replace 'casual and informal', which means 'not formal; relaxed in style or manner'.

4. **Option (2) is correct.**
Omnipresent implies 'present in all places at all times.' 'Optimist' means 'a person who is inclined to be hopeful and to expect good outcomes'. 'Omniscient' is 'knowing everything.'

5. **Option (2) is correct.**
The correct sentence is: Ramesh owns a beautiful house in Noida. The phrase 'is owning' will be replaced by 'owns' because simple present tense is used for habitual truths and facts. The sentence refers to a fact of Ramesh.

6. **Option (2) is correct.**
The correct sentence is: When will Nisha have finished her task? Here 'When Nisha will' will be substituted by 'When will Nisha'. This is because in reported speech, in case of interrogative sentences, the structure is: question word + auxiliary verb + noun + main verb + object.

7. **Option (4) is correct.**
He pushed the bushes aside and went a little farther. Here, 'push the bushes' will be replaced by 'pushed the bushes' because the sentence is in past tense (went).

8. **Option (1) is correct.**
Plagiarism is the fraudulent representation of another person's language, thoughts, ideas, or expressions as one's own original work. Polygamy is the practice of marrying multiple spouses. A preamble is an introductory statement in a document that explains the document's purpose and underlying philosophy. Extempore is with little or no preparation or forethought.

9. **Option (4) is correct.**
The idiom 'Beauty of it' refers to a quality that makes something especially good.

10. **Option (3) is correct.**
The correct sentence is: The girl was manacled and locked in the room. The word 'manacled' means to put manacles around a person's legs or arms. The words 'unfastened/ liberated/ unbinded' are antonyms of the given word. Thus, the correct synonym is 'fettered' (chained).

11. **Option (3) is correct.**
The word 'detrimental' means 'tending to cause harm.' Therefore, the best antonym is 'beneficial'(resulting in good; favourable or advantageous).

12. **Option (2) is correct.**
Plunge means to push or drive into something with force. Therefore, the move suitable synonym is 'dive'. Transgress is disobey.

13. **Option (1) is correct.**
The word 'Tomatos' has been spelt incorrectly. The correct spelling is 'tomatoes'.

14. **Option (3) is correct.**
The correct sentence is: I used a variety of sources to find the cheapest flight. The phrase 'more cheap' is incorrect and hence will be substituted by 'cheapest'. The rationale behind using the superlative form of adjective (cheapest) is to express

the extreme or highest degree of a quality. Moreover, it is usually preceded by the definite article 'the'.

15. **Option (1) is correct.**
The word 'Novembur' has been spelt incorrectly. It will be spelled as 'November'.

16. **Option (1) is correct.**
The correct sentence is: Ravi will go to England. The phrase 'the England' will be replaced by 'England', because names of countries are never preceded by articles, except if a country has a political title in its name, or if it refers a group of islands.

17. **Option (1) is correct.**
The correct sentence is: The commander: "Honourable Emperor, all the troops have lined up for the battle and are awaiting your orders." Emperor Chandragupta Maurya: "We will march at dawn." Since the commander announces about awaiting the Emperor's orders on the next phase after troops are lined up for the battle. The answer must be on the same line- "We will march at dawn." Other options are clear misfits.

18. **Option (1) is correct.**
The idiom 'once in a blue moon' means 'very rarely.' Example: It is once in a blue moon that my father takes me for a movie, thus, I eagerly anticipate the event.

19. **Option (1) is correct.**
The correct sentence is: My father told me that in his childhood he walked to school every day. The part 'he was walking' will be replaced by 'he walked'. The use of simple past tense is correct because the sentence refers to a past habit.

20. **Option (3) is correct.**
Like a cakewalk means something that is very easy to achieve. Example: She expected the exam to be a cakewalk, but was stunned on seeing the level of question paper.

21. **Option (3) is correct.**
The correct sentence is: Modern football originated in Britain in the 19th century. 'Originated' means 'have a specified beginning' and the beginning of football was in Britain in the 19th century.

22. **Option (3) is correct.**
The correct sentence is: Since before medieval times, 'folk football' games had been played in towns and villages according to local customs and with a minimum of rules. The football that had started used to be played in towns and villages according to local customs, so the rules can be expected to be minimum.

23. **Option (2) is correct.**
The correct sentence is: Industrialisation and urbanisation, which reduced the amount of leisure time and space available to the working class. One of the factors that which reduce the amount of leisure time and space available to the working class is urbanisation (the increase in the proportion of people living in towns and cities.)

24. **Option (4) is correct.**
The correct sentence is: The working class, combined with a history of legal prohibitions against particularly violent and destructive forms of folk football. The use of 'and' with 'destructive forms' necessitate another negative adjective.

25. **Option (3) is correct.**
The correct sentence is: The variance in rules made it difficult for public schoolboys entering university to continue playing except with former schoolmates. The fact that the rules made it difficult for public schoolboys entering university to continue playing implies that the rules were discrepant, so variance is the appropriate word.

26. **Option (4) is correct.**
As per the given statements, following venn diagram can be made.
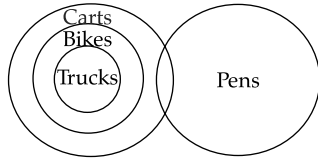
Conclusion I - Some trucks are carts.

As given, all trucks are bikes and all bikes are carts, it implies that some trucks are definitely cart. So, this conlusion follows.

Conclusion II - No bikes are pens.

As given, all bikes are carts and some carts are pens, it implies we cannot definitely say that no bikes are pens. So, this conclusion doesn't follows.

Hence, only conclusion I follows.

27. Option (1) is correct.

Given equation: $357 \times 7 + 19 \div 2 - 38 = ?$

After interchanging the signs, we get:

$357 \div 7 - 19 \times 2 + 38$

According to BODMAS rule,

$\Rightarrow 51 - 19 \times 2 + 38$

$\Rightarrow 51 - 38 + 38$

$\Rightarrow 51$

Hence, 51 is the correct answer.

28. Option (1) is correct.

Given that:

RN 12 is related to PL 16

The pattern followed here is:
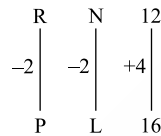
And, EJ 17 is related to CH 21
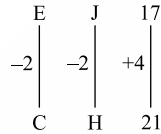
Similarly, for FL 15
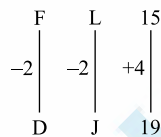
Hence, DJ 19 is the correct answer.

29. Option (3) is correct.

Given figure:
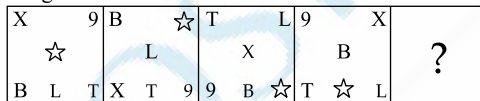
As per the pattern followed and the symmetry, the required image is:
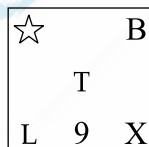
30. Option (4) is correct.

Given that: PYJ_S_LM_YNM YY_M B_RM

Upon inserting the alphabets from option (4), we get

PYJ**M** S**Y**LM **V**YNM YY**P**M B**Y**RM

Here, 1st letter of each cluster is increasing by 3 positional values.

2nd letter is same as Y in all clusters

3rd letter is increasing by 2 positional values.

And 4th letter is same as M in all cluster.

Hence, it forms a logical series.

31. Option (3) is correct.

Given that:

3 21 111 561 2811 ?

The pattern followed here is:

$(1^{st} \text{ term} \times 5) + 6 = 2^{nd} \text{ term}.$

So,

$(3 \times 5) + 6 = 21$

$(21 \times 5) + 6 = 111$

$(111 \times 5) + 6 = 561$

$(561 \times 5) + 6 = 2811$

$(2811 \times 5) + 6 = 14061$

Hence, 14061 is the correct answer.

32. Option (3) is correct.

Given that: _FFEF_ _FF_F_

Upon inserting the alphabets sequentially from option (3), we get **E**FFEF**F**EFF**E**FF

Hence, it forms a logical series.

33. Option (4) is correct.

As per the given statements, following venn diagram can be made:
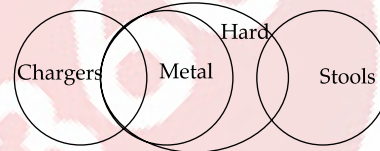
Conclusion I - All chargers are metals.

As given that, some chargers are metal, so we cannot definitely say that all chargers are metals. So, this conclusion doesn't follows.

Conclusion II - Some stools are hard.

As given, some hard are stools, It implies that some stools are hard.
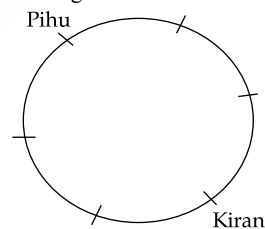
So, this conclusion follows.

Hence, only conclusion II follows.

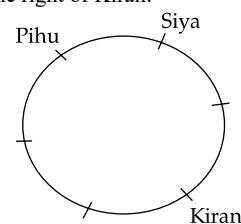**34. Option (4) is correct.**

Given that:

Six people are sitting around a circular table facing towards the centre.
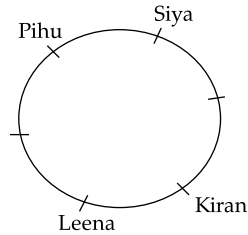
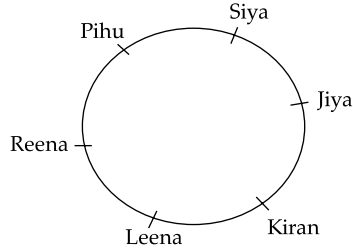Kiran sits third to the right of Pihu:

Siya sits 2nd to the right of Kiran:

Leena sits third to the left of Siya:

Reena is an immediate neighbour of Leena.

Hence, Kiran sits to the immediate left of Jiya.

35. **Option (4) is correct.**

Given that: (95 K 19) J 7 L 15 I (10 J 4) = ?

After putting the signs as per the question, we get:

(95 ÷ 19) × 7 – 15 + (10 × 4)

⇒ 5 × 7 – 15 + 40

⇒ 35 – 15 + 40

⇒ 75 – 15 = 60

Hence, 60 is the correct answer.

36. **Option (2) is correct.**

Given figure:
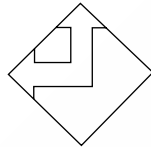
The given figure is highlighted in the image from option 2 below:
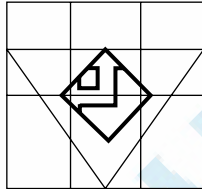
37. **Option (4) is correct.**

Given that: 428 is related to 317

The pattern followed here is:

And, 285 is related to 174:

Similarly, for 597:

Hence, 486 is the correct answer.

38. **Option (1) is correct.**

Given set:

(14, 42, 7)

(12, 34, 5)

The pattern followed here is:

(1st term + 3rd term) × 2 = 2nd term

For (14, 42, 7),

(14 + 7) × 2 = 42

And for (12, 34, 5),

(12 + 5) × 2 = 34

Similarly, upon checking option (1), (43, 144, 29) we get

(43 + 29) × 2 = 144

Hence, it is the correct option.

39. **Option (4) is correct.**

Given that: 5th may 2010 was Wednesday.

Let's count the number of odd days for each year which needs to be added in Wednesday.

2010 = +1

2011 = +1

2012 = +2 (Leap year)

2013 = +1

2014 = +1

2015 = +1

2016 = +2 (Leap year)

2017 = +1

2018 = +1

2019 = +1

2020 = +2 (Leap year)

2021 = +1

Total no. of odd days = 15

So, 15 days ahead of Wednesday, it will be a Thursday (On 05th May 2022)

And, number of days from 05th May 2022 to 05th June 2022 = 31 days, i.e. 4 weeks + 3 odd days.

Hence, counting 3 days ahead Thursday, we arrive at Sunday.

> **Note:** A Non-leap year consists of 365 days, which is when divided by 7 (a week) results in 52 weeks and a remainder of 1, known as an odd day.
>
> A leap year consists of 366 days, which is when divided by 7 (a week) results in 52 weeks and a remainder of 2, known as odd days.

40. **Option (2) is correct.**

Given that: YFD, VJA, SNX, PRU, ?

The pattern followed here is:

Hence, MVR is the correct answer.

41. Option (2) is correct.
Given series: 26 37 59 92 136 ?
The pattern followed here is:
$$26 + 11 = 37$$
$$37 + 22 = 59$$
$$59 + 33 = 92$$
$$92 + 44 = 136$$
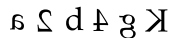$$136 + 55 = 191$$
Hence, 191 is the correct answer.

42. Option (4) is correct.
Given figure:

M

K g 4 b 2 a |

N
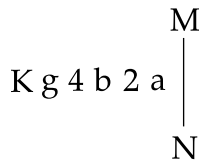
In the mirror image, left becomes right and right becomes left.
Hence, the required image is:

Kg 4 b 2 a

43. Option (4) is correct.
Given series: 14 85 511 3067 18403 ?
The pattern followed here is:
(1st term × 6) + 1 = 2nd term
Now,
(14 × 6) + 1 = 85
(85 × 6) + 1 = 511
(511 × 6) + 1 = 3067
(3067 × 6) + 1 = 18403
(18403 × 6) + 1 = 110419
Hence, 110419 is the correct answer.

44. Option (1) is correct.
NAIL is coded as 2637.
And LANE is coded as 3278.
If we compare both of the words we get,
The codes for the alphabets N, A, L are 3, 2, 7 (In random order), indicating that the only different letter remaining in the word LANE is 'E.'
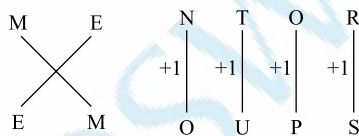Therefore, there is only 1 digit left for 'E' which is 8.
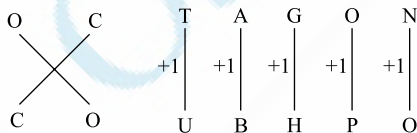Hence, E will be coded as 8.

45. Option (4) is correct.
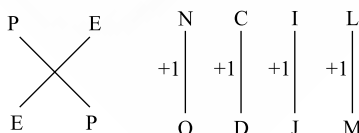Given that: MENTOR is coded as EMOUPS.
The pattern followed here is:

M   E   N   T   O   R
  ✕   +1 | +1 | +1 | +1 |
E   M   O   U   P   S

And, OCTAGON is coded as COUBHPO:

O   C   T   A   G   O   N
  ✕   +1 | +1 | +1 | +1 | +1 |
C   O   U   B   H   P   O

Similarly, for PENCIL:

P   E   N   C   I   L
  ✕   +1 | +1 | +1 | +1 |
E   P   O   D   J   M

Hence, PENCIL will be coded as EPODJM.

46. Option (1) is correct.
A's 1 day work = $\dfrac{1}{30}$, B's 1 day work = $\dfrac{1}{40}$.

Let A left the work after x days.

Work done by A in x days = $\dfrac{x}{30}$

Work done by B in $(x + 25)$ days = $\left(\dfrac{x + 25}{40}\right)$

Given that, $\dfrac{x}{30} + \dfrac{(x + 25)}{40} = 1$

$\Rightarrow \dfrac{(4x + 3x + 75)}{120} = 1$

$\Rightarrow \dfrac{7x + 75}{120} = 1$

$\Rightarrow \qquad 7x + 75 = 120$
$\Rightarrow \qquad\qquad 7x = 120 - 75$
$\Rightarrow \qquad\qquad 7x = 45$

$\Rightarrow \qquad\qquad x = \dfrac{45}{7}$ i.e. $6\dfrac{3}{7}$

Hence, A left after $6\dfrac{3}{7}$ days.

47. Option (1) is correct.
Work completed by 6 workers in 4 days = 6 × 4 = 24 units
Work completed by 6 workers in 3 days = 18 units
Remaining units = 6
After 3 days, 3 new workers added.
Total workers = 9

Hence, 9 workers can do 6 unit of work in = $\dfrac{6}{9} = \dfrac{2}{3}$ days

48. Option (1) is correct.
Let the number of boys = x
∴ Number of girls = $2x$
After admission of 20 new boys, the ratio of girls and boys = 1 : 1

∴ $\qquad\qquad \dfrac{2x}{x + 20} = \dfrac{1}{1}$

$\Rightarrow \qquad\qquad 2x = x + 20$
$\Rightarrow \qquad\qquad x = 20$

Total number of students there in class initially are
$$= x + 2x = 3x = 3 \times 20 = 60$$

49. Option (2) is correct.
Selling price of goals = ₹150000
Profit on goods = ₹30000
Profit percentage = P%
Cost price of goods = ₹150000 – ₹30000 = ₹120000

$\Rightarrow \qquad P = \dfrac{30000 \times 100}{120000} = \dfrac{100}{4} = 25$

Hence, the value of P is 25.

50. Option (3) is correct.
Volume of milk in a mixture – 1 of 8 litres

$\qquad = \dfrac{80}{100} \times 8 = 6.4$ litres

Volume of milk in a mixture – 2 of 6 litres

$\qquad = \dfrac{60}{100} \times 6 = 3.6$ litres

Total volume of milk in both the mixtures

$= (6.4 + 3.6)$ litres $= 10$ litres

∴ Percentage of milk in 14 litres of both the mixtures

$= \dfrac{10}{14} \times 100 = \dfrac{500}{7} \% = 71\dfrac{3}{7}\%$

51. Option (1) is correct.

Total number of students appeared in the exam for all fields in 2011 = 345 + 440 + 401 + 314 = 1500

Number of students appeared in exam for medical field in 2011 = 345

∴ Required percentage $= \dfrac{345}{1500} \times 100 = 23\%$

52. Option (2) is correct.

Speed of policeman = 12.5 km/h

Speed of thief = 10 km/h

Effective speed of policeman to catch thief

$= (12.5 - 10)$ km/h $= 2.5$ km/h

$= 2.5 \times \dfrac{5}{18}$ m/s $= \dfrac{12.5}{18}$ m/s

Time to cover 250 m by policeman $= \dfrac{250}{12.5} \times 18$

$= 360$ s $= 6$ min $= \dfrac{1}{10}$ hour

Thief will run distance in $\dfrac{1}{10}$ hour $= 10\dfrac{1}{10}$ km $= 1$ km

53. Option (1) is correct.

Given equation:

$6\dfrac{4}{5} \div \left[4\dfrac{1}{4} \div \left\{ 5\dfrac{1}{2} \times \dfrac{3}{8} + \left(3\dfrac{1}{2} + \dfrac{2}{3} \right) \times \dfrac{4}{5} \right\} \right]$

According to BODMAS rule, we get

$\dfrac{34}{5} \div \left[\dfrac{17}{4} \div \left\{ \dfrac{11}{2} \times \dfrac{3}{8} + \left(\dfrac{7}{2} + \dfrac{2}{3} \right) \times \dfrac{4}{5} \right\} \right]$

$\Rightarrow \dfrac{34}{5} \div \left[\dfrac{17}{4} \div \left\{ \dfrac{33}{16} + \left(\dfrac{21+4}{6} \right) \times \dfrac{4}{5} \right\} \right]$

$\Rightarrow \dfrac{34}{5} \div \left[\dfrac{17}{4} \div \left\{ \dfrac{33}{16} + \dfrac{25}{6} \times \dfrac{4}{5} \right\} \right]$

$\Rightarrow \dfrac{34}{5} \div \left[\dfrac{17}{4} \div \left\{ \dfrac{33}{16} + \dfrac{100}{30} \right\} \right]$

$\Rightarrow \dfrac{34}{5} \div \left[\dfrac{17}{4} \div \dfrac{1295}{240} \right]$

$\Rightarrow \dfrac{34}{5} \div \left[\dfrac{17}{4} \times \dfrac{240}{1295} \right]$

$\Rightarrow \dfrac{34}{5} \div \dfrac{204}{259} \quad \Rightarrow \dfrac{34}{5} \times \dfrac{259}{204}$

$\Rightarrow \dfrac{259}{30} = 8\dfrac{8}{15}$

54. Option (4) is correct.

Total time = (6 + 6) hours = 12 hours

Total distance = (60 × 6 + 40 × 6) miles = 600 miles

∴ Average speed $= \dfrac{\text{Total distance}}{\text{Total Time}} = \dfrac{600}{12}$

$= 50$ miles/hour

55. Option (1) is correct.

Let cost price of jewel at the start = ₹100

Final selling price of jewel after 80% hike = ₹180

Selling price of jewel for first seller after 20% gain = ₹120

Selling price of jewel for second seller after 25% gain

$= \dfrac{125}{100} \times 120 = ₹150$

∴ Profit earned by third seller = ₹180 – ₹150 = ₹30

Profit percent for third seller $= \dfrac{30}{150} \times 100\% = 20\%$

56. Option (3) is correct.

Let the principal sum = ₹x

Amount on principal sum after the time period = ₹4x

∴ Simple interest $= 4x - x = ₹3x$

Rate of interest, $r = 12\%$

Let time period $= t$ years

∴ Simple interest $= \dfrac{P \times r \times t}{100}$

$\Rightarrow \quad 3x = \dfrac{x \times 12 \times t}{100}$

$\Rightarrow \quad 300 = 12t$

$\Rightarrow \quad t = 25$

∴ The required time period = 25 years

57. Option (1) is correct.

Principal sum, P = ₹135000

Rate of interest, $r = 12\%$

Time period, $t = 2$ years and 3 months

Amount of loan after 2 years $= P\left[1 + \dfrac{r}{100} \right]^2$

$= 135000 \left[1 + \dfrac{12}{100} \right]^2 = 169344$

Interest on ₹169344 for 3 months $= \dfrac{169344 \times 12 \times 3}{100 \times 12}$

$= 5080.32$

∴ He has paid amount to settle the loan

$= 169344 + 5080.32 = ₹174424.32$

58. Option (1) is correct.

Let the two numbers are 7x and 11x

LCM of two numbers = 7 × 11 × x = 77x

According to the question

$77x = 462$

$\Rightarrow \quad x = 6$

Now difference between the numbers = 11x – 7x = 4x

$= 4 \times 6 = 24$

59. Option (3) is correct.

Radius of base of cylinder, $r = \dfrac{30}{2}$ cm $= 15$ cm

Height of cylinder, $h = 56$ cm

Curved surface area of cylinder $= 2prh$

$= 2 \times \dfrac{22}{7} \times 15 \times 56$

$= 5280$ cm^2

60. Option (2) is correct.

Let the length, breadth and height of cuboid are 6x, 4x and 3x respectively.

Total surface of cuboid $= 2(lb + bh + hl)$

$= 2[6x.4x + 4x.3x + 3x.6x]$

$= 108x^2 =$ cm^2

According to the question

$$108x^2 = 972$$
$$\Rightarrow \qquad x^2 = 9$$
$$\Rightarrow \qquad x = 3$$

Length of diagonal of cuboid $= \sqrt{l^2 + b^2 + h^2}$

$$= \sqrt{(6x)^2 + (4x)^2 + (3x)^2}$$
$$= x\sqrt{36 + 16 + 9} = 3\sqrt{61} \text{ cm}$$

61. Option (1) is correct.

Let the three number are x, $2x$ and $3x$.

New number after adding 5 to them are $x + 5$, $2x + 5$ and $3x + 5$.

According to the question

$$(x + 5) : (2x + 5) : (3x + 5) = 2 : 3 : 4$$
$$\Rightarrow \qquad \frac{x + 5}{2x + 5} = \frac{2}{3}$$
$$\Rightarrow \qquad 3x + 15 = 4x + 10$$
$$\Rightarrow \qquad x = 5$$

∴ The numbers are 5, 10 and 15.

Smallest number = 5

62. Option (4) is correct.

Total number of graduate students from institutes A, C and E

$$= \left[\frac{35 + 15 + 25}{100}\right] \times 284000$$

= 213000

Total number of post graduate students from institute B and D

$$= \left[\frac{18 + 22}{100}\right] \times 240000 = 96000$$

∴ Required numbers of students = 213000 + 96000 = 309000

63. Option (1) is correct.

Distance between two towns = 60 × 9 = 540 km

Let the new speed to save 1 hour of journey = $(60 + x)$ km/h

According to the question

$$(60 + x)(9 - 1) = 540$$
$$\Rightarrow \qquad 480 + 8x = 540$$
$$\Rightarrow \qquad x = \frac{60}{8} = 7.5$$

So, the speed should be increased by 7.5 km/h

64. Option (3) is correct.

Let speed of the man for last $\frac{1}{3}$ rd of journey = x km/h

∴ 72 mins = $\frac{72}{60}$ hours

Average speed of journey = $\frac{7.5}{72} \times 60$ km/h = 6.25 km/h

∴ Average speed = $\dfrac{\text{Total distance}}{\text{Total time}}$

$$6.25 = \frac{7.5}{\dfrac{5}{5} + \dfrac{2.5}{x}}$$

$$\Rightarrow \qquad 6.25 = \frac{7.5}{1 + \dfrac{2.5}{x}}$$

$$\Rightarrow \qquad 6.25 + \frac{6.25 \times 2.5}{x} = 7.5$$

$$\Rightarrow \qquad x = \frac{6.25 \times 2.5}{1.25} = 12.5$$

∴ Required speed = 12.5 km/h

65. Option (1) is correct.

Let the salary of Rockey = ₹x

His saving percentage = [100 – 35 – 15 – 14 – 6] % = 30%

∴ Saving = $\dfrac{30}{100} x$

$$\Rightarrow \qquad \frac{3}{10} x = 2400$$
$$\Rightarrow \qquad x = 8000$$

∴ His salary = ₹8000

66. Option (4) is correct.

Gravitational intensity is the strength of the gravitational field. Basically, it is the gravitational force acting on a unit test mass. A vector quantity is a physical quantity that is defined using both magnitude and direction. e.g., Velocity, Displacement. A scalar quantity is a physical quantity with only magnitude and no direction. e.g., Mass, Distance, speed etc.

67. Option (1) is correct.

Books	Author
The Palace of Illusions	Chitra Banerjee Divakaruni
Yajnaseni and Shilapadma	Prabhita Ray
EMPIRE	Devi Yeshodharan
The Twentieth Wife, The Feast of Roses, Shadow Princess, and The Splendor of Silence	Indu Sundaresan

68. Option (3) is correct.

Company	Headquarters	Chief
Oil and Natural Gas Corporation Limited	Delhi	Arun Kumar Singh
Indian Oil Corporation Limited	New Delhi	Shrikant Madhav Vaidya
Bharat Petroleum Corporation Limited	Mumbai	G Krishnakumar
Hindustan Petroleum Corporation Limited	Mumbai	Pushp Kumar Joshi

69. Option (1) is correct.

Rassundari Devi was the first woman to write an autobiography and also the first to do so in Bengali in her book titled 'Amar Jiban', which was published in 1876. Her book provided an insight into the life and experiences of women in colonial India. She was the wife of Raja Rammohun Roy, who was an Indian reformer and one of the founding fathers of Brahmo Samaj. He is considered to be the 'Father of Indian Renaissance.'

70. Option (3) is correct.

Vivekanand Rock Memorial is situated in Kanyakumari, Tamil Nadu. It is dedicated to Swami Vivekananda, an Indian monk, author, philosopher, and the chief disciple of Ramakrishna. The rock was built in the year 1970 in honour of Swami Vivekananda who is believed to have attained enlightenment on this rock. It consists of two main structures: the Vivekananda Mandapam and the Shripada Mandapam. The Vivekananda Mandapam is a majestic stone structure with a

life-size bronze statue of Swami Vivekananda. The Shripada Mandapam is located on another rock nearby and is believed to be the spot where the footprint of the goddess Kumari (an incarnation of the goddess Parvati) is found.

71. Option (4) is correct.

The rule of the British Crown was established under the Government of India Act 1858. This act marked the transfer of power and territories from the East India Company to the British administration. This brought India under the direct rule of Queen Victoria. The act was also referred to as the 'Act for Good Government of India.' It led to the appointment of a viceroy, who was the representative of the British crown and Lord Canning was the first such viceroy. India became a direct British colony through the passage of this act. It provided some protection for the freedom of the press and allowed for discussions and debates on public issues.

72. Option (2) is correct.

Kolar region is famous for gold and is also known as the Golden City of India. Kolar is situated in Karnataka and is famous for gold mines and milk production. It is also famous for Someshwara temple and Kolaramma temple. Kolaramma is considered as the goddess of the city of Kolar.

73. Option (3) is correct.

Angika	Gestures and other bodily movement
Vachika	Spoken words
Aharya	Costumes and make up
Sattvika	Depiction of mental and psychological states

74. Option (1) is correct.

In fencing, a contest between two fencers is known as bout. It involves two fencers and a referee. Fencing is a combat sport in which two athletes use swords to attack and defend against one another with the aim of striking their opponent in order to score points.

A remise occurs when a fencer immediately follows up with a second attack, usually after the initial attack has missed or been parried by the opponent. It's a rapid, continuous action to try to score a point in a situation where the first attack did not succeed. Parry is a defensive action used by fencers to deflect or block their opponent's attack. It prevents the opponent's blade from making contact and scoring a point.

Riposte is an offensive action that a fencer takes immediately after successfully parrying their opponent's attack. It is a counter offensive action that follows a successful parry.

75. Option (1) is correct.

Arjuna award was instituted in the year 1961. It is presented annually by the Ministry of Youth Affairs and Sports to recognize outstanding achievements and contributions in the field of sports. The sportsperson must have performed consistently on an international platform for three successive years along with the display of sportsmanship. This award is named after Arjuna, a legendary archer and warrior prince from Mahabharata. The recipients of the Arjuna Award are given a bronze statue of Arjuna, a certificate, and a cash prize.

76. Option (1) is correct.

Atla Taddi is a traditional festival celebrated by mostly married women in Andhra Pradesh, especially in the Telugu-speaking regions. It typically falls in September or October according to the Gregorian calendar. On this day, women fast from sunrise to moonrise for the well-being and longevity of their husbands. A special dish named 'Atlu' or 'Atukula Atlu' is prepared on this day. Some unmarried women also fast on this day.

77. Option (1) is correct.

PT Usha was elected as the President of the Indian Olympic Association (IOA) in December 2022. She is a retired track and field athlete. She is also a former member of the Rajya Sabha. She is fondly known as 'Golden Girl and Payyoli Express.' She is the first woman president of the Indian Olympic Association (IOA) in its 95-year history.

IOA is the governing body for the Olympic Movement and the Commonwealth Games in India and it administers various aspects of sports governance and athletes' welfare in the country. It oversees the representation of athletes or teams participating in the Olympic Games, Commonwealth Games, Asian Games and other international multi-sport competitions of IOC, CGF, OCA and ANOC. It was established in the year 1927 with Sir Dorabji Tata and Dr. A.G. Noehren as the Founding President and Secretary General respectively.

78. Option (3) is correct.

Bihar topped among all states in reducing poverty as it witnessed a significant decline in the number of poor people from 51.89% of its population to 33.76% between 2015-16 and 2019-21.

The National Multidimensional Poverty Index (MPI) was released by the NITI Aayog. It seeks to measure poverty across its multiple dimensions based on per capita consumption expenditure. MPI provides estimates for 36 states and Union Territories and 707 administrative districts. The parameters considered are aligned with the sustainable development goals and include three dimensions - health, education and standard of living.

79. Option (4) is correct.

UPSC stands for Union Public Service Commission. It is the central government's recruitment agency for recruitment of all the Group 'A' officers for the central public sector undertakings and the central autonomous bodies. Earlier, it was known as the Federal Public Service Commission. It is headquartered in New Delhi and was established on October 1, 1926. The current chairman of UPSC is Dr. Manoj Soni.

80. Option (4) is correct.

Sattriya is a classical dance form of Assam. It was introduced by Sankaradeva as a medium for propagation of the Vaishnava faith. It is governed by strictly laid down principles in respect of hastamudras, footworks, aharyas, music

81. Option (4) is correct.

Kelucharan Mohapatra is also a master of percussion instruments like Mridangam, Pakhavaj and Tabla. He was an Indian classical guru, and dancer who played a major role in popularising Odissi dance. He was the first person to receive the Padma Vibhushan award in Odisha. He was also skilled in the traditional Pattachitra painting.

Padma Vibhushan is the second-highest civilian award in the Republic of India, after the Bharat Ratna. It is one of the three Padma awards, which are given by the Government of India to recognize and honor exceptional contributions and achievements in various fields, including art, literature, science, sports, and public service.

82. Option (2) is correct.

Dr. Narayanaswami Rajam is a classical violinist and musician and is regarded as one of the leading violinists in the field of Carnatic music. She is known for her innovative approach to playing the violin in Carnatic music. N. Rajam was honoured with the prestigious Padma Bhushan for her music.

Violin is a stringed instrument and typically has four strings. It is played by plucking the strings with fingers.

83. Option (1) is correct.

Money is not a part of the Barter System. In fact, the Barter system is the system of exchanging goods and services with

goods and services. It bypasses the use or need of money between the involved parties. It is one of the oldest types of commerce.

84. Option (1) is correct.

According to the Census 2011, the population density recorded in Bihar was 1106 persons per square kilometre making it the most densely populated state. Bihar was the third most populous state in India.

The census is conducted every ten years and is conducted by the Office of the Registrar General and Census Commissioner of India, Ministry of Home Affairs, Government of India. The first census in India was conducted in 1872.

85. Option (1) is correct.

Carbohydrates are utilised by the human body in the form of glucose as this is the simplest form of sugar. Carbohydrates are one of the three primary macronutrients, along with proteins and fats that are an important source of energy for the human body. The process of digestion begins in the mouth and continues in the stomach and small intestine.

86. Option (2) is correct.

Zakir Hussain is a renowned tabla maestro who started playing tabla at the age of seven years. He has been conferred with Sangeet Natak Akademi award, Padma Shri, Padma Bhushan and Padma Vibhushan. He was the first Indian musician to be invited in 2016 by the then American President Barack Obama to attend the All-Star Global Concert held in the White House.

87. Option (4) is correct.

Mahatma Gandhi spent a year travelling around British India to know the people of India on the advice of Gopal Krishna Gokhale. Gandhi Ji returned to India in 1915 after becoming a barrister from South Africa. Gokhale was an Indian political leader and social reformer. He was a mentor to Mahatma Gandhi and was referred to as his political guru. He also mentored Muhammad Ali Jinnah.

88. Option (4) is correct.

The fiscal deficit is the difference between the total revenue and total expenditure of a government in a financial year and this situation arises when expenditure is more than revenue. It is an indication of the total borrowings needed by the government.

89. Option (3) is correct.

The 86th Constitutional Amendment (2002) inserted Article 21A in the Indian Constitution which makes primary education compulsory and free for children from age six to fourteen years. With this India became the 135th country to provide free and compulsory education. This act ensures that education is provided to the economically weaker section of society. With this, education became a fundamental right and is protected by the Part III of the Indian constitution.

90. Option (1) is correct.

Slate is a soft and brittle sedimentary rock which is composed of fine-grained clay and silt-sized particles. It transforms into a metamorphic rock due to the changes in temperature, pressure, and often the introduction of fluids. The sediments from which shale is formed are compacted and undergo lithification, turning loose sediment into solid rock. The initial stage involves low-grade metamorphosis followed by intermediate-grade Metamorphism (Phyllite Formation). This is followed by high-grade Metamorphism (Schist Formation) and finally highest-grade Metamorphism (Gneiss Formation). It transforms into the metamorphic rock slate due to changes in temperature, pressure and often introduction of liquids.