

General Instructions

- (i) This question paper contains 150 questions. All questions are compulsory.
- (ii) It comprises 150 single-correct multiple-choice questions.
- (iii) Attempt every question; detailed solutions are provided in the companion solutions booklet.

1. If $11^{10-2x} = 1$, find the value of x .

- (A) 10
- (B) 5
- (C) 2
- (D) None of these

...

2. Two trains moving in opposite directions cross a man standing on a platform in 25 seconds and 15 seconds respectively, and they cross each other in 21 seconds. Find the ratio of the speeds of the trains.

- (A) 21 : 10
- (B) 1 : 2
- (C) 3 : 2
- (D) 5 : 3

...

3. A girl sells two bags at Rs. 600 each. If she makes a profit of 20% on one of the bags and incurs a loss of 25% on the other, find the resultant gain or loss in the transaction.

- (A) Rs. 100 loss
- (B) Rs. 200 loss
- (C) Rs. 130 gain
- (D) Rs. 240 gain

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4. If $-1 \leq x \leq 2$ and $1 \leq y \leq 3$, find the least possible value of $2y - 3x$.

- (A) -1
- (B) -3
- (C) 0
- (D) -4

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5. A person incurs a loss of 40% when he sells 32 oranges at Rs. 1,000. In order to make a profit of 20%, how many oranges should he sell at Rs. 1,000?

- (A) 12
- (B) 14
- (C) 16
- (D) 18

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6. If the mean of five numbers 25, 30, 35, 40 and 45 is 35, find the variance.

- (A) 200
- (B) 250
- (C) 100
- (D) 150

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7. If $2x^2 - 7x + 6 = 0$, what is the largest value of x which satisfies the equation?

- (A) 2
- (B) $\frac{3}{2}$
- (C) 3
- (D) None of these

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8. A person reaches his office just in time when he travels at a speed of 48 kmph. When he moves at a speed of 36 kmph, he gets late by 15 minutes. Find the distance of the journey.

- (A) 48 km
- (B) 36 km
- (C) 30 km
- (D) 44 km

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9. A fraction becomes $\frac{1}{2}$ when 1 is added to its numerator and denominator, and becomes $\frac{1}{4}$ when 1 is subtracted from its numerator and denominator. Find the fraction.

- (A) $\frac{4}{9}$
- (B) $\frac{3}{5}$
- (C) $\frac{4}{13}$
- (D) $\frac{2}{5}$

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10. When Sonu's age 3 years ago is doubled and subtracted from twice his age 2 years hence, the resultant is exactly half of his present age. Find his present age (in years).

- (A) 15
- (B) 20
- (C) 24
- (D) None of these

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11. Sum of the present ages of a father and his son is 48 years. If the product of their ages 5 years back is 165, what is the present age of the father?

- (A) 38 years
- (B) 36 years
- (C) 31 years
- (D) 28 years

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12. If $\frac{P}{Q} = 8$, then find the value of $\frac{P^2+Q^2}{P^2-Q^2}$.

- (A) $\frac{22}{21}$
- (B) $\frac{9}{7}$
- (C) $\frac{65}{63}$
- (D) $\frac{50}{47}$

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13. If $\frac{a}{b} = \frac{4}{3}$, then find the value of $\frac{9a+4b}{9a-4b}$.

- (A) 2
- (B) $\frac{8}{5}$
- (C) $\frac{16}{9}$
- (D) 3

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14. If 40% of $\frac{2}{5}$ th of a number is 24, find the value of the number.

- (A) 200
- (B) 100
- (C) 250
- (D) 150

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15. A bag contains 6 white and 4 black balls. If 2 balls are drawn from the bag, what is the probability that both are white?

- (A) 0.25
- (B) 0.33
- (C) 0.4
- (D) None of these

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16. If a card is drawn from a pack of cards, what is the probability that it is either a club or a jack?

- (A) $\frac{17}{52}$
- (B) $\frac{1}{52}$
- (C) $\frac{7}{13}$
- (D) $\frac{4}{13}$

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17. Find the area of an equilateral triangle whose height is 12 cm.

- (A) $24\sqrt{3} \text{ cm}^2$
- (B) 48 cm^2
- (C) $48\sqrt{3} \text{ cm}^2$
- (D) $36\sqrt{3} \text{ cm}^2$

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18. 10 women can complete a piece of work in 8 days and 10 children can do the work in 16 days. In how many days can 5 women and 10 children complete the work?

- (A) 8 days
- (B) 12 days
- (C) 12.5 days
- (D) 16 days

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19. Find the value of

$$\frac{(0.6)^4 - (0.5)^4}{(0.6)^2 + (0.5)^2}$$

- (A) 0.0121
- (B) 0.011
- (C) 0.11
- (D) 1.1

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20. The mean of n terms of an arithmetic progression is $\bar{x}$. If the sum of $(n - 1)$ terms is k , find the n th term.

- (A) $n\bar{x} + k$
- (B) $\bar{x} - nk$
- (C) $k\bar{x} + n$
- (D) $n\bar{x} - k$

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21. When a number is divided by 4, the remainder is 2. When the quotient is divided by 2, the remainder is 1. What will be the remainder when the number is divided by 8?

- (A) 4
- (B) 5
- (C) 6
- (D) 7

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22. If $\log(x^2y^4) = a$ and $\log \frac{x}{y} = b$, find the value of $\frac{\log x}{\log y}$.

- (A) $\frac{a + 4b}{a - 2b}$
- (B) $\frac{a - 4b}{a + 2b}$
- (C) $\frac{a + 4b}{a + 2b}$
- (D) $\frac{a - 4b}{a - 2b}$

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23. The distance between A and B is 180 km. A starts towards B at a speed of 30 kmph at 9:00 a.m., and after 1 hour, B starts towards A at a speed of 20 kmph. At what time will they meet for the first time?

- (A) 12:00 p.m.
- (B) 1:00 p.m.
- (C) 1:30 p.m.
- (D) 2:00 p.m.

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24. A, B and C start a business in which A's investment is Rs. 20,000. At the end of the year, out of a total profit of Rs. 2,000, A's share is Rs. 1,000 and B's share is Rs. 600. Find the investment of C.

- (A) Rs. 6,000
- (B) Rs. 8,000
- (C) Rs. 12,000
- (D) Rs. 15,000

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25. In a class, 52% of the students failed in English, 40% failed in Mathematics, and 20% failed in both the subjects. What percent of the students passed in both the subjects?

- (A) 18%
- (B) 28%
- (C) 36%
- (D) None of these

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26. Rohan travels 30 meters in 4 seconds, whereas Mohan travels 40 meters in 5 seconds. If both start from the same point, what distance would be travelled by Mohan by the time he is 20 meters ahead of Rohan?

- (A) 320 m
- (B) 300 m
- (C) 280 m
- (D) 250 m

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27. The ratio of two numbers is $\frac{1}{2}$. If the ratio becomes $\frac{5}{8}$ when 4 is added to both the numbers, find the bigger number.

- (A) 6
- (B) 10
- (C) 12
- (D) 24

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28. 

In the figure above, AT is a tangent to the circle drawn from point T, touching the circle at point A, and ACB is a diameter of the circle. If $\angle BCT = 130^\circ$, find $\angle ATC$.

- (A) 50°
- (B) 60°
- (C) 30°
- (D) 40°

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29. If $4x + 2y = 14$ and $\frac{5x}{2y} = \frac{5}{3}$, find the value of $y - x$.

- (A) 3
- (B) -5
- (C) 1
- (D) 5

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30. The cost of 6 hard-discs equals the cost of 9 printers, the cost of 27 printers equals the cost of 30 scanners, and the cost of 300 scanners equals the cost of 9 computers. If the cost of 3 computers is Rs. 72,000, find the cost of a hard-disc.

- (A) Rs. 1800
- (B) Rs. 800
- (C) Rs. 1500
- (D) Rs. 1200

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31. There are 2 baskets, A and B, containing mangoes. If 10 mangoes are transferred from A to B, the number of mangoes in both baskets become equal. If 20 mangoes had been transferred from B to A instead, the number of mangoes in basket A would have become twice that in basket B. Find the original number of mangoes in basket A.

- (A) 100
- (B) 80
- (C) 70
- (D) 60

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32. In a triangle ABC, $AB = 6$ cm, $BC = 8$ cm and $AC = 10$ cm. A perpendicular BD is drawn from B to a point D on AC. Taking B as the centre and BD as the radius, a circle is drawn that cuts AB and BC at points E and F respectively. Find the ratio of the length of AE to that of CF.

- (A) 3 : 5
- (B) 3 : 8
- (C) 4 : 7
- (D) 3 : 7

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33. The cost of an I-pad increases by 10% and the cost of a mobile increases by 18%. The cost of an I-pad is thrice the cost of a mobile. Find the percentage increase in the total cost of 10 I-pads and 5 mobiles.

- (A) 10%
- (B) 11.14%
- (C) 14.63%
- (D) 18%

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34. A person incurs a loss of 10% when he sells an item for Rs. 1,800. At what price should the item be sold to earn a profit of 10%?

- (A) Rs. 2200
- (B) Rs. 2100
- (C) Rs. 2000
- (D) Rs. 1800

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35.

Directions for questions 35 to 40: Study the following details about a family's monthly income and expenditure and answer the question that follows.

Income	Amount / Rate
Basic salary	Rs. 5,000
Petrol allowance	20% of basic salary
PF deduction	10% of basic salary

Expenditure	Share of net income
Food	28%
House rent	22%
Entertainment	12%
Children's Education	25%
Other expenses	13%

What is the house rent?

- (A) Rs. 1188
- (B) Rs. 1210
- (C) Rs. 1320
- (D) Rs. 1420

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36.

Directions for questions 35 to 40: Study the following details about a family's monthly income and expenditure and answer the question that follows.

Income	Amount / Rate
Basic salary	Rs. 5,000
Petrol allowance	20% of basic salary
PF deduction	10% of basic salary

Expenditure	Share of net income
Food	28%
House rent	22%
Entertainment	12%
Children's Education	25%
Other expenses	13%

What is the expenditure on food and entertainment?

- (A) Rs. 2000
- (B) Rs. 2500
- (C) Rs. 2160
- (D) Rs. 2200

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37.

Directions for questions 35 to 40: Study the following details about a family's monthly income and expenditure and answer the question that follows.

Income	Amount / Rate
Basic salary	Rs. 5,000
Petrol allowance	20% of basic salary
PF deduction	10% of basic salary

Expenditure	Share of net income
Food	28%
House rent	22%
Entertainment	12%
Children's Education	25%
Other expenses	13%

If the family has no children, how much maximum can they save including PF?

- (A) Rs. 2125
- (B) Rs. 1950
- (C) Rs. 1875
- (D) Rs. 1750

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38.

Directions for questions 35 to 40: Study the following details about a family's monthly income and expenditure and answer the question that follows.

Income	Amount / Rate
Basic salary	Rs. 5,000
Petrol allowance	20% of basic salary
PF deduction	10% of basic salary

Expenditure	Share of net income
Food	28%
House rent	22%
Entertainment	12%
Children's Education	25%
Other expenses	13%

After PF deduction and house rent, what is left for expenditure?

- (A) Rs. 4290
- (B) Rs. 4212
- (C) Rs. 4080
- (D) Rs. 3900

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39.

Directions for questions 35 to 40: Study the following details about a family's monthly income and expenditure and answer the question that follows.

Income	Amount / Rate
Basic salary	Rs. 5,000
Petrol allowance	20% of basic salary
PF deduction	10% of basic salary

Expenditure	Share of net income
Food	28%
House rent	22%
Entertainment	12%
Children's Education	25%
Other expenses	13%

How much is the PF deduction?

- (A) Rs. 500
- (B) Rs. 600
- (C) Rs. 1000
- (D) Rs. 1200

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40.

Directions for questions 35 to 40: Study the following details about a family's monthly income and expenditure and answer the question that follows.

Income	Amount / Rate
Basic salary	Rs. 5,000
Petrol allowance	20% of basic salary
PF deduction	10% of basic salary

Expenditure	Share of net income
Food	28%
House rent	22%
Entertainment	12%
Children's Education	25%
Other expenses	13%

If the family gets a 15% inflation allowance on the basic salary, then what is the gross income of the family?

- (A) Rs. 6150
- (B) Rs. 6250
- (C) Rs. 6750
- (D) Rs. 7000

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41. Who among the following is the winner of the men's singles Lawn Tennis tournament at the Olympics 2012?

- (A) Roger Federer
- (B) Rafael Nadal
- (C) Andy Murray
- (D) None of the above

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42. Fibre optic cables transmit large amounts of data using .

- (A) light
- (B) water
- (C) sound
- (D) None of the above

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43. Six sigma based quality improvement concepts are not applicable to .

- (A) Banking
- (B) Manufacturing
- (C) Health
- (D) Infrastructure

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44. Which among the following are not constitutional bodies?

1. EC
2. CVC
3. NHRC
4. UPSC

Correct code:

- (A) 1 only
- (B) 2 and 3 only
- (C) 3 and 4 only
- (D) All of the above

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45. Which was the first country to draw funds from the IMF?

- (A) France
- (B) Kenya
- (C) Brazil
- (D) None of the above

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46. An octopus has .

- (A) hearts
- (B) eyes
- (C) arms
- (D) all of the above

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47. Maxis Communications holds a majority stake in .

- (A) Aircel
- (B) Airtel
- (C) Vodafone
- (D) Idea

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48. What is the term for a computer virus which has a delayed payload?

- (A) Bomb
- (B) Infection
- (C) Trojan horses
- (D) Worm

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49. Suez canal connects.

- (A) English channel with North Sea
- (B) Mediterranean with Red Sea
- (C) Pacific Ocean with Caribbean Sea
- (D) Gulf of Mexico and Pacific Ocean

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50. Lok Sabha passed two bills to change name of state and name of language of.

- (A) Assam
- (B) Orissa
- (C) West Bengal
- (D) Madhya Pradesh

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51. Which among the following is not a Public Sector Bank of India?

- (A) South Indian Bank
- (B) Bank of India
- (C) Bank of Baroda
- (D) Punjab National Bank

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52. First foreign Minister of India.

- (A) Gulzarilal Nanda
- (B) Lal Bahadur Shastri
- (C) Sardar Swaran Singh
- (D) Jawaharlal Nehru

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53. Study of Fossil.

- (A) Araneology
- (B) Paleontology
- (C) Cardiology
- (D) Anthology

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54. Which among the following is not a direct tax?

- (A) Income Tax
- (B) Corporation Tax
- (C) Sales Tax
- (D) Gift Tax

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55. King, Queen, workers and soldiers can be found in.

- (A) Ant Hills
- (B) Termite colonies
- (C) Bee Hives
- (D) All of the above

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56. Which among the following is not a deptt under Ministry of Finance?

- (A) Department of Expenditure
- (B) Department of Financial Services
- (C) Department of Detection of Financial Frauds
- (D) Department of Disinvestment

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57. Prior to the amendment in 2000, which tax was levied and collected by the Union but distributed between the Union and the States in India?

- (A) Central Sales Tax
- (B) Consignment Taxes
- (C) Income Tax
- (D) None of the above

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58. In 2007, the New York Stock Exchange was merged with _____ to form the first global equities exchange.

- (A) Chi-X
- (B) Xetra
- (C) Eurex
- (D) Euronext

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59. The exemption limit for general category individual tax payers in the Union Budget 2012-13 is _____.

- (A) Rs 1,50,000 per annum
- (B) Rs 1,80,000 per annum
- (C) Rs 2,50,000 per annum
- (D) Rs 2,00,000 per annum

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60. What is the validity period for cheques and bank drafts now?

- (A) 6 months
- (B) 5 months
- (C) 3 months
- (D) 2 months

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61. What is the name of the Turkish currency?

- (A) Turkish Lira
- (B) Turkish Dinar
- (C) Rubal
- (D) Turkish Krone

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62. Yoga in Sanskrit means

- (A) Union
- (B) Separation
- (C) Exercise
- (D) None of the above

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63. The statutory auditor of a company is appointed by

- (A) the Managing Director of the company
- (B) the Board of Directors of the company
- (C) the Shareholders in the annual general meeting
- (D) the Company Law Board

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64. Chairperson of Lakme who was once called the Cosmetic Czarina of India

- (A) Simone Tata
- (B) Priyadarshini Rao
- (C) Pratiksha Chaudhary
- (D) None of the above

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65. Which is the odd one out?

- (A) RBI
- (B) SEBI
- (C) LIC
- (D) IRDA

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66. Who is the author of "Hunger and Entitlements"?

- (A) Khushwant Singh
- (B) Amartya Sen
- (C) Kiran Desai
- (D) Arundhati Roy

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67. What is the mascot of the 2011 India Census?

- (A) A woman enumerator
- (B) Our Census, Our Future
- (C) A tiger
- (D) An old man with a stick

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68. Hippophobia is the fear of.....

- (A) dogs
- (B) horses
- (C) oxen
- (D) snakes

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69. The most common symbol found on the national flags of countries around the world is.....

- (A) Star
- (B) Crescent
- (C) Animal
- (D) Stripes

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70. The unit used to measure the speed and direction of movement of a computer mouse is called.....

- (A) Mashboard
- (B) RSTP
- (C) Mickey
- (D) SDP

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71. Which of the following causes Tetanus?

- (A) Bacteria
- (B) Virus
- (C) Fungi
- (D) None of the above

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72. Question Hour in Parliament refers to.....

- (A) The first hour of the sitting
- (B) The period between 5 PM and 6 PM
- (C) The hour after the lunch break
- (D) None of the above

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73. Which of the following date is celebrated as Victory Day by Bangladesh and Vijay Diwas by India?

- (A) 15 December
- (B) 16 December
- (C) 21 December
- (D) 28 November

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74. Which of the following term is used for regulator prescribed price limit on stock indices in stock markets?

- (A) Circuit Filter
- (B) Bounds
- (C) Limit Orders
- (D) Current Breakers

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75. Name the company which has appointed Sushil Kumar as its Ambassador?

- (A) MRF Tyres
- (B) Ralson Tyres
- (C) Goodyear
- (D) Lego Group

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76. Name the first European country to come to India and last to leave.

- (A) France
- (B) Denmark
- (C) Portugal
- (D) England

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77. Name the maker of Royal Enfield Bullet?

- (A) TVS motors
- (B) Hero Motocorp
- (C) Eicher motors
- (D) None of these

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78. Which company operates both Delhi and Hyderabad Airports?

- (A) GMR Group
- (B) BIAL
- (C) CIAL
- (D) MIAL

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79. Who is winner of Nobel Prize in Literature for year 2011?

- (A) Mo Yan
- (B) David J. Wineland
- (C) Tomas Transtromer
- (D) Shinya Yamanaka

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80. Birth rate measures number of births during a year per what population?

- (A) 100
- (B) 1000
- (C) 10000
- (D) 100000

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81. Find out the synonym of the given word.

Minion

- (A) host
- (B) inferior
- (C) follower
- (D) master

• • •

82. Find out the synonym of the given word.

Platitude

- (A) condolence
- (B) a trite phrase
- (C) empty promise
- (D) an obligation

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83. Find out the synonym of the given word.

Polemic

- (A) an indication
- (B) a misunderstanding
- (C) a contentious argument
- (D) a complaint

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84. Find out the synonym of the given word.

Leitmotif

- (A) recurring theme
- (B) spirit of the age
- (C) main design
- (D) chief objective

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85. Find out the synonym of the given word.

Iridescent

- (A) blaze
- (B) luster
- (C) murkiness
- (D) illustration

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86. Select the phrase that is incorrect.

- (A) highly educated
- (B) highly profitable
- (C) highly unusual
- (D) highly exhausted

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87. Fill in the blank with the correct word.

Today's Headline: The Indian team _____ another Olympic gold medal.

- (A) had won
- (B) have won
- (C) won
- (D) wins

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88. Fill in the blank with the correct word.

Try as I _____, I couldn't open the door.

- (A) could
- (B) should
- (C) might
- (D) would

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89. I think it would be nice to buy him MP3 player as New year's gift.

- (A) an / the
- (B) the / a
- (C) a / a
- (D) an / a

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90. Fill in the blanks with the correct pronoun.

shall I say is calling?

do you advice the most?

- (A) whom / whom
- (B) whom / who
- (C) who / who
- (D) who / whom

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91. Directions for questions 91 and 92: Fill in the blanks with the correct words or phrases.

The government's attempt to petrol prices have failed.

- (A) wipe off
- (B) cap off
- (C) sweep aside
- (D) force down

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92. It is important that the TOEFL office every applicant's registration.

- (A) will confirm
- (B) confirms
- (C) confirm
- (D) confirming

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93. Identify the correct sentence structure.

My family watches cricket matches on television but never goes to the stadium.

- (A) Simple Sentence
- (B) Complex Sentence
- (C) Compound Sentence
- (D) No Category

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94. Spot the error in the following sentence.

He said, "What a wonderful surprise"!

- (A) no comma
- (B) quotation marks instead of exclamation
- (C) exclamation inside quotes
- (D) no change

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95. Directions for questions 95 to 97: From the given options, choose the word that is most nearly same in meaning to the underlined word.

He asked his friend why he has so tetchy with his wife.

- (A) jealous
- (B) unfriendly
- (C) irritable
- (D) conceited

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96. They launched a scurrilous attack.

- (A) serious
- (B) insulting
- (C) unjustified
- (D) unsuccessful

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97.

From the given options, choose the word that is most nearly the same in meaning to the underlined word.

He castigated her for her insensitive remarks.

- (A) praised
- (B) defended
- (C) criticized
- (D) ignored

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98.

Although it does contain some path breaking ideas, one would hardly characterize the work as .

From the words given below, choose the pair of words that, when filled in the blank (used interchangeably), would not alter the meaning of the sentence.

1. revolutionary
2. original
3. conventional
4. interesting
5. innovative

- (A) I, II
- (B) II, IV
- (C) II, V
- (D) III, IV

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99.

The word Pyrohic means 'victory that comes at a high cost.' Choose the correct spelling of the underlined word.

- (A) Pyroic
- (B) Pyorhic
- (C) Pyrrhic
- (D) Pyrrohic

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100.

Change the given sentence into its passive voice.

It had had it.

- (A) It had had by it.
- (B) It had been had by it.
- (C) It had had been by it.
- (D) It had it by it.

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101.

Identify the pronoun in the given sentence.

It is Atul who gave me the pen. Identify 'who' in the given sentence.

- (A) object pronoun
- (B) relative pronoun
- (C) preposition
- (D) conjunction

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102.

Out of the four given words, two of them are either synonyms or antonyms of each other. Identify the correct pair.

1. Limpid
2. Luscious
3. Acrid
4. Benign

- (A) I, II
- (B) I, III
- (C) II, III
- (D) III, IV

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103.

Out of the four given words, two of them are either synonyms or antonyms of each other. Identify the correct pair.

1. Proximity
2. Brevity
3. Agreement
4. Proposition

- (A) I, II
- (B) I, III
- (C) II, IV
- (D) I, IV

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104.

Arrange sentences 1, 2, 3, 4 and 5 to form a logical sequence. Choose the most logical order of sentences from the four given choices.

1. Seen through Bond's eyes, the morning sun comes 'shouting over the rooftops', while the whistling-thrush is 'Fred Astaire dancing in top hat and tails'.
2. But they don't matter.
3. You can feel how precious this world, with its mountains and valleys, rivers and cascades, animals, birds, insects and plants, is to the author.
4. When Bond describes a destination it ceases to be a place on the map and becomes a beautiful portrait of life itself.
5. As is inevitable with an anthology containing such a vast body of work, there is some overlapping of material and several typos.

- (A) 45231
- (B) 52314
- (C) 41235
- (D) 54231

• • •

105. Arrange the sentences 1, 2, 3, 4, 5 and 6 to form a logical sequence. Choose the most logical order of sentences from the four given choices.

1. The Croatian mercenaries in the French Service wearing their traditional small, knotted neckerchiefs aroused the interest of Parisians.
2. Men looked smarter in the age of the tie.
3. Its appeal to the masses started only during the industrial revolution when masses of people shifted to cities.
4. Cravat soon became Cravats and a fashion craze started among men and women.
5. The modern history of this accessory is generally traced back to the Thirty Years' War (1618-1648).
6. But it was still a part of the elite style.

- (A) 512643
(B) 425136
(C) 251463
(D) 321465

• • •

106. Given below are fragments of a sentence numbered 1 to 8. Arrange these fragments in a logical order so that together they make a meaningful sentence. From the given options, choose the one with the most appropriate sequence.

1. not only
2. I still think
3. because it is cheap
4. because it is large
5. that we should
6. but also
7. buy this plot
8. although you may not like it

- (A) 1, 4, 6, 3, 2, 8, 5, 7
- (B) 4, 2, 8, 6, 7, 1, 5, 3
- (C) 2, 5, 7, 8, 6, 4, 1, 3
- (D) 8, 2, 5, 7, 1, 4, 6, 3

• • •

107. Directions for questions 107 to 111: Read the following passage and answer the questions that follow.

The Celts may be taken as a starting point for a study of the long series of people whose arrival and settlement in Britain have contributed to its history. They provide a link between the prehistoric period, at the end of which they had emerged ...

(Passage of 230 words, from "The Celts" by Nora Chadwick, Penguin edition.)

A line was taken and the pronoun "our" was underlined. Whom did the pronoun refer to?

- (A) Europeans
- (B) British
- (C) Celts
- (D) Romans

• • •

108. Directions for questions 107 to 111: Read the following passage and answer the questions that follow.

The Celts may be taken as a starting point for a study of the long series of people whose arrival and settlement in Britain have contributed to its history. They provide a link between the prehistoric period, at the end of which they had emerged ...

(Passage of 230 words, from "The Celts" by Nora Chadwick, Penguin edition.)

According to the passage, who were the enemies of the Celtic people?

- (A) The people of Britain
- (B) Romans
- (C) The ancient classical writers
- (D) The Vikings

• • •

109. Directions for questions 107 to 111: Read the following passage and answer the questions that follow.

The Celts may be taken as a starting point for a study of the long series of people whose arrival and settlement in Britain have contributed to its history. They provide a link between the prehistoric period, at the end of which they had emerged ...

(Passage of 230 words, from "The Celts" by Nora Chadwick, Penguin edition.)

What does the word "relegate" mean?

- (A) To make importance
- (B) To make less important
- (C) Delegate
- (D) Give poor treatment

• • •

110. Directions for questions 107 to 111: Read the following passage and answer the questions that follow.

The Celts may be taken as a starting point for a study of the long series of people whose arrival and settlement in Britain have contributed to its history. They provide a link between the prehistoric period, at the end of which they had emerged ...

(Passage of 230 words, from "The Celts" by Nora Chadwick, Penguin edition.)

Which of the following can be inferred as the reason why the Celtic people were not given due importance in the history of Britain?

- (A) Because they were considered outsiders.
- (B) Because they soon returned to their homeland.
- (C) Because they did not leave much records for the archaeologists.
- (D) None of the above

• • •

111. Directions for questions 107 to 111: Read the following passage and answer the questions that follow.

The Celts may be taken as a starting point for a study of the long series of people whose arrival and settlement in Britain have contributed to its history. They provide a link between the prehistoric period, at the end of which they had emerged ...

(Passage of 230 words, from "The Celts" by Nora Chadwick, Penguin edition.)

What did the findings of the archaeologists reveal?

- (A) Writing came later on.
- (B) The Celts were an illiterate race.
- (C) The writings of the Celts were destroyed by those who came after them.
- (D) The Celts did not believe in keeping records of their exploits.

• • •

112. Identify if the sentence has an error in it.

The CEO, together with his managers, have decided to organize a meeting.

- (A) together with
- (B) organize
- (C) have
- (D) no error

• • •

113. Read the arguments given below and answer the question that follows.

A number of independent studies have confirmed that XYZ minivans on an average have a better system of brakes as compared to any other minivans. Therefore, anyone wanting to buy a minivan solely on the basis of safety should buy XYZ minivans.

Which of the following most weakens the above conclusion?

- (A) Independent studies have strong research methods which project reliable findings.
- (B) EFG minivans have also fared better than ABC minivans on safety tests.
- (C) In some studies ABC minivans gave better results in the brake tests.
- (D) ABC minivans performed better than XYZ minivans in the frontal crash tests.

• • •

114. Select the word / words that have to be removed / replaced in order to make the sentence grammatically correct.

The tiles were secure fastened and so very few of them were dislodged when the shuttle re-entered the earth's atmosphere.

- (A) tiles
- (B) secure fastened
- (C) shuttle re-entered
- (D) atmosphere

• • •

115. Spot the error in the following sentence.

The Pickerel frog should be avoided as the secretions from their skin are lethal to animals and irritating to humans.

- (A) avoided
- (B) their
- (C) lethal to animals
- (D) irritating

• • •

116. Spot the error in the following sentence.

Neither the mathematics department nor the economics department at the State University require that the students must write a thesis to be awarded a Master's Degree.

- (A) Neither...nor
- (B) require
- (C) must
- (D) a Master's Degree

• • •

117. Fill in the Blank.

For safety concerns, the nuclear detonator has been designed to have _____ so that two individuals can separately handle them.

- (A) two equipments pieces
- (B) two pieces of equipment
- (C) two pieces of equipments
- (D) two equipments

• • •

118. He gave me a drink from his water-gourd. Identify "drink" in the given sentence.

- (A) noun
- (B) verb
- (C) adjective
- (D) adverb

• • •

119. Bollywood and reality television shows have made dance glamorous. Identify "glamorous" in the given sentence.

- (A) noun
- (B) verb
- (C) adverb
- (D) adjective

• • •

120. Fill in the blank.

It was a fine June day, brilliant _____ sunlight.

- (A) through
- (B) by
- (C) with
- (D) in

• • •

121. A cube is painted Green on four adjoining side faces and Black on the other two faces, which are opposite each other (the top face and the bottom face). The cube is then cut by two evenly spaced cuts parallel to each of its three pairs of faces, which divides every edge into 3 equal parts and turns the big cube into a $3 \times 3 \times 3$ arrangement of 27 smaller cubes of equal size.

How many smaller cubes are formed in all?

- (A) 27
- (B) 25
- (C) 18
- (D) None of these

• • •

122. A cube is painted Green on four adjoining side faces and Black on the other two faces, which are opposite each other (the top face and the bottom face). The cube is then cut by two evenly spaced cuts parallel to each of its three pairs of faces, which divides every edge into 3 equal parts and turns the big cube into a $3 \times 3 \times 3$ arrangement of 27 smaller cubes of equal size.

How many of the smaller cubes have only one face painted, and that face is Black colored?

- (A) 1
- (B) 2
- (C) 4
- (D) 6

• • •

123. A cube is painted Green on four adjoining side faces and Black on the other two faces, which are opposite each other (the top face and the bottom face). The cube is then cut by two evenly spaced cuts parallel to each of its three pairs of faces, which divides every edge into 3 equal parts and turns the big cube into a $3 \times 3 \times 3$ arrangement of 27 smaller cubes of equal size.

How many of the smaller cubes have no face painted at all?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

• • •

124. A cube is painted Green on four adjoining side faces and Black on the other two faces, which are opposite each other (the top face and the bottom face). The cube is then cut by two evenly spaced cuts parallel to each of its three pairs of faces, which divides every edge into 3 equal parts and turns the big cube into a $3 \times 3 \times 3$ arrangement of 27 smaller cubes of equal size.

How many of the smaller cubes have at least three faces painted?

- (A) 4
- (B) 6
- (C) 8
- (D) 10

• • •

125. If 'AIR' is coded as 'DLU', what is the code for 'PLANE'?

- (A) SOEPH
- (B) SPDQH
- (C) SPDPG
- (D) SODQH

• • •

126. A family has seven members, A, B, C, D, E, F and G. Among them there are three married couples. B, an engineer, is the father of E, who is a student. F, a contractor, is the grandfather of E. C is the daughter-in-law of D, who is a professor. G, a doctor, is the uncle of the student E. Among the seven members there is one journalist, one housewife and one student. C is the sister-in-law of B. The student, E, is single.

Who is C's husband?

- (A) B
- (B) G
- (C) F
- (D) Cannot be determined

• • •

127. A family has seven members, A, B, C, D, E, F and G. Among them there are three married couples. B, an engineer, is the father of E, who is a student. F, a contractor, is the grandfather of E. C is the daughter-in-law of D, who is a professor. G, a doctor, is the uncle of the student E. Among the seven members there is one journalist, one housewife and one student. C is the sister-in-law of B. The student, E, is single.

Who is E's aunt?

- (A) D
- (B) A
- (C) G
- (D) C

• • •

128. A family has seven members, A, B, C, D, E, F and G. Among them there are three married couples. B, an engineer, is the father of E, who is a student. F, a contractor, is the grandfather of E. C is the daughter-in-law of D, who is a professor. G, a doctor, is the uncle of the student E. Among the seven members there is one journalist, one housewife and one student. C is the sister-in-law of B. The student, E, is single.

Which are the three married couples?

- (A) (A, B), (C, G), (D, F)
- (B) (A, F), (B, C), (D, G)
- (C) (A, G), (B, C), (D, F)
- (D) (A, B), (C, F), (D, G)

• • •

129. A family consists of seven people, A, B, C, D, E, F and G. Out of them, there are three married couples. B, the engineer, is the father of E, who is the student. F, who is a contractor, is the grandfather of E. C is the daughter-in-law of D, who is a professor. G, the doctor, is the uncle of the student. There is one journalist, one housewife and one student. C is the sister-in-law of B. The student is single.

Which of the following groups definitely represents the females?

- (A) C, D
- (B) A, C
- (C) A, D, C
- (D) A, D, C, E

...

130. Find the missing term "?" in the grid given below.

C	G	K
G	L	Q
L	R	?

- (A) Y
- (B) X
- (C) S
- (D) P

...

131. Study the diagram below, which shows three overlapping groups, College Students, Singers and Dancers, divided into the labelled regions P, Q, R, S, T, U and V, and answer the question that follows.

\includegraphics{images/q131.png}

College students who are dancers but not singers are represented by?

- (A) S
- (B) R
- (C) T
- (D) P

• • •

132. Study the diagram below, which shows three overlapping groups, College Students, Singers and Dancers, divided into the labelled regions P, Q, R, S, T, U and V, and answer the question that follows.

\includegraphics{images/q132.png}

College students who are singers but not dancers are represented by?

- (A) R
- (B) P
- (C) S
- (D) T

• • •

133. Study the diagram below, which shows three overlapping groups, College Students, Singers and Dancers, divided into the labelled regions P, Q, R, S, T, U and V, and answer the question that follows.

\includegraphics{images/q133.png}

College students who are dancers as well as singers are represented by?

- (A) T
- (B) V
- (C) R
- (D) S

...

134. Study the diagram below, which shows three overlapping groups, College Students, Singers and Dancers, divided into the labelled regions P, Q, R, S, T, U and V, and answer the question that follows.

\includegraphics{images/q134.png}

College students who are neither dancers nor singers are represented by?

- (A) P
- (B) S
- (C) V
- (D) Q

...

135. Answer the question on the basis of the information given below.

$$P\#Q = \frac{P + PQ}{Q}$$

$$P\$Q = \frac{P - PQ}{Q}$$

$$P?Q = \frac{Q + PQ}{P}$$

$$P@Q = \frac{Q - PQ}{P}$$

Find $a\#b$, if $a = (P\#Q + P?Q)$, $b = (P\$Q + P@Q)$ and $P = 1$ and $Q = 3$.

(A) $\frac{5}{3}$

(B) $\frac{1}{11}$

(C) $-\frac{22}{3}$

(D) $-\frac{11}{3}$

...

136. Answer the question on the basis of the information given below.

$$P\#Q = \frac{P + PQ}{Q}$$

$$P\$Q = \frac{P - PQ}{Q}$$

$$P?Q = \frac{Q + PQ}{P}$$

$$P@Q = \frac{Q - PQ}{P}$$

The value of $\left(\frac{P\#Q}{P\$Q}\right) \div \left(\frac{P?Q}{P@Q}\right)$, where $P = 1$ and $Q = 2$, is

- (A) 0
- (B) -2
- (C) $\frac{4}{3}$
- (D) Infinity

...

137. Six persons, A, B, C, D, E and F, live in six bungalows, three of which face North and three face South. The bungalows are named after six different flowers: Yarrow, Periwinkle, Rose, Orchid, Blue Star and White Primrose, not necessarily in that order. The following facts are known:

1. C lives in the Yarrow bungalow and faces South.
2. There is no bungalow to the left of White Primrose.
3. The bungalow of D is to the right of the bungalow opposite that of B.
4. The bungalow opposite C is Periwinkle.
5. The bungalow opposite B faces North and it is not Rose.
6. The Blue Star bungalow is to the immediate left of Rose, and it faces North.
7. E lives in a bungalow that is to the right of F.

Who lives in the Orchid bungalow?

- (A) A
- (B) B
- (C) E
- (D) D

• • •

138. Six persons, A, B, C, D, E and F, live in six bungalows, three of which face North and three face South. The bungalows are named after six different flowers: Yarrow, Periwinkle, Rose, Orchid, Blue Star and White Primrose, not necessarily in that order. The following facts are known:

1. C lives in the Yarrow bungalow and faces South.
2. There is no bungalow to the left of White Primrose.
3. The bungalow of D is to the right of the bungalow opposite that of B.
4. The bungalow opposite C is Periwinkle.
5. The bungalow opposite B faces North and it is not Rose.
6. The Blue Star bungalow is to the immediate left of Rose, and it faces North.
7. E lives in a bungalow that is to the right of F.

What is the name of E's bungalow?

- (A) White Primrose
- (B) Rose
- (C) Blue Star
- (D) Periwinkle

• • •

139. Six persons, A, B, C, D, E and F, live in six bungalows, three of which face North and three face South. The bungalows are named after six different flowers: Yarrow, Periwinkle, Rose, Orchid, Blue Star and White Primrose, not necessarily in that order. The following facts are known:

1. C lives in the Yarrow bungalow and faces South.
2. There is no bungalow to the left of White Primrose.
3. The bungalow of D is to the right of the bungalow opposite that of B.
4. The bungalow opposite C is Periwinkle.
5. The bungalow opposite B faces North and it is not Rose.
6. The Blue Star bungalow is to the immediate left of Rose, and it faces North.
7. E lives in a bungalow that is to the right of F.

Who lives to the immediate left of B?

- (A) A
- (B) C
- (C) F
- (D) D

• • •

140. Six persons, A, B, C, D, E and F, live in six bungalows, three of which face North and three face South. The bungalows are named after six different flowers: Yarrow, Periwinkle, Rose, Orchid, Blue Star and White Primrose, not necessarily in that order. The following facts are known:

1. C lives in the Yarrow bungalow and faces South.
2. There is no bungalow to the left of White Primrose.
3. The bungalow of D is to the right of the bungalow opposite that of B.
4. The bungalow opposite C is Periwinkle.
5. The bungalow opposite B faces North and it is not Rose.
6. The Blue Star bungalow is to the immediate left of Rose, and it faces North.
7. E lives in a bungalow that is to the right of F.

Which bungalow is the leftmost and faces North?

- (A) Blue Star
- (B) White Primrose
- (C) Rose
- (D) Periwinkle

• • •

141. Each of the three figures below shows three 3 digit numbers, one below the other. Find the odd one out.

(1)	(2)	(3)
583	658	482
146	314	157
729	962	639

- (A) Only (1)
- (B) Only (2)
- (C) Only (3)
- (D) None of these

• • •

142. From one sequence of digits, another sequence of digits has to be formed as per the following rule:

Single switch: interchange of any two adjacent digits, where one such interchange counts as one step.

Using only single switching, what is the minimum number of steps required to change 51432 to 12345?

- (A) 6
- (B) 7
- (C) 8
- (D) 9

• • •

143. From one sequence of digits, another sequence of digits has to be formed as per the following rule:

Double switch: interchange of any two digits that have at most one digit between them (that is, two digits that are either next to each other or have exactly one digit sitting between them), where one such interchange counts as one step.

Using only double switching, what is the minimum number of steps required to change 165324 to 123456?

- (A) 5
- (B) 6
- (C) 7
- (D) None of these

• • •

144. From one sequence of digits, another sequence of digits has to be formed as per the following rule:

Random switch: interchange of any two digits, regardless of where they sit in the sequence, where one such interchange counts as one step.

Using only random switching, what is the minimum number of steps required to change 653124 to 123456?

- (A) 3
- (B) 4
- (C) 5
- (D) None of these

• • •

145. If COMPATIBLE is to CURIE, then AUDIENCE is to _____ ?

- (A) FREQUENT
- (B) OCEANIC
- (C) UNDERGONE
- (D) UNSEEN

• • •

146.

Directions for questions 146 to 148: Answer the questions on the basis of the information given below.

Ten sports persons A, B, C, D, E, F, G, H, I and J are sitting around a circular table. Each two of them play one of the following sports: Cricket, Swimming, Athletics, Football and Tennis, not necessarily in that order. It is also known that:

- Cricketers are sitting to the immediate right of Athletes and to the immediate left of Swimmers.
- Players who play the same sport sit opposite each other.
- The Tennis player does not sit next to a Swimmer.
- G is sitting equidistant from I and D.
- B and F are Athletes.
- C and D are Cricketers.
- G is sitting three places to the right of D and two places to the left of C.
- J and I are Swimmers.
- H is sitting two places to the right of I.

Which sport does G play?

- (A) Tennis
- (B) Swimming
- (C) Football
- (D) Cannot be determined

• • •

147.

Directions for questions 146 to 148: Answer the questions on the basis of the information given below.

Ten sports persons A, B, C, D, E, F, G, H, I and J are sitting around a circular table. Each two of them play one of the following sports: Cricket, Swimming, Athletics, Football and Tennis, not necessarily in that order. It is also known that:

- Cricketers are sitting to the immediate right of Athletes and to the immediate left of Swimmers.
- Players who play the same sport sit opposite each other.
- The Tennis player does not sit next to a Swimmer.
- G is sitting equidistant from I and D.
- B and F are Athletes.
- C and D are Cricketers.
- G is sitting three places to the right of D and two places to the left of C.
- J and I are Swimmers.
- H is sitting two places to the right of I.

If F, D and J sit together, then answer the following question.

Who are the neighbors of H?

- (A) F and A
- (B) F and E
- (C) A and E
- (D) Cannot be determined

• • •

148.

Directions for questions 146 to 148: Answer the questions on the basis of the information given below.

Ten sports persons A, B, C, D, E, F, G, H, I and J are sitting around a circular table. Each two of them play one of the following sports: Cricket, Swimming, Athletics, Football and Tennis, not necessarily in that order. It is also known that:

- Cricketers are sitting to the immediate right of Athletes and to the immediate left of Swimmers.
- Players who play the same sport sit opposite each other.
- The Tennis player does not sit next to a Swimmer.
- G is sitting equidistant from I and D.
- B and F are Athletes.
- C and D are Cricketers.
- G is sitting three places to the right of D and two places to the left of C.
- J and I are Swimmers.
- H is sitting two places to the right of I.

If F, D and J sit together, then answer the following question.

Who sits to the immediate left of C?

- (A) G
- (B) B
- (C) F
- (D) Cannot be determined

• • •

149.

Directions: Each question has a set of four sequentially ordered statements. Each statement can be classified as one of the following:

- **Fact (F):** a piece of information that has been heard, seen or read, and which is open to discovery or verification.
- **Inference (I):** a conclusion drawn about the unknown, on the basis of the known.
- **Judgment (J):** an opinion that implies approval or disapproval of persons, objects, situations or occurrences in the past, present or future.

Select the answer option that best describes the set of four statements.

1. Yuvraj Singh's 6 sixes in an over in the match against England in the Twenty20 World Cup helped him score the fastest 50 in any form of cricket.
2. India would have lost the game against England if Yuvraj had not played.
3. Yuvraj's innings propelled India to a score which would have otherwise been difficult to reach.
4. Yuvraj Singh won the Man of the Match award for his outstanding performance in India's match against England.

- (A) FIIF
- (B) IJIF
- (C) FJJF
- (D) FIJF

• • •

150.

Directions: Each question has a set of four sequentially ordered statements. Each statement can be classified as one of the following:

- **Fact (F):** a piece of information that has been heard, seen or read, and which is open to discovery or verification.
- **Inference (I):** a conclusion drawn about the unknown, on the basis of the known.
- **Judgment (J):** an opinion that implies approval or disapproval of persons, objects, situations or occurrences in the past, present or future.

Select the answer option that best describes the set of four statements.

1. SEBI has given an 'informal guidance' to Insilco on the buy back of Non Convertible Debentures.
2. This move could serve as a useful guide for other companies who may have similar plans.
3. The debentures are due for redemption in three annual installments.
4. Insilco may go ahead with early redemption since SEBI has clarified the process.

- (A) FIII
- (B) FJJI
- (C) FJFI
- (D) JJJI