

# DU JAT 2018

1.Fill in the blank with the most appropriate option.

He is \_\_\_ honor to this profession.

- A. an
- B. none of these
- C. a
- D. the

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- C. a
- D. the

26.If the ratio of an external angle and an internal angle of a regular polygon is 1:17, the number of sides of the regular polygon is

- A. 18
- B. 12
- C. 36
- D. 20

27.Given the equation  $x^2 - y^2 = (x - y)(x + y)$ , where x and y are matrices of order n x n, which of the following is true?

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- A. Both x and y are invertible and x and y commute with each other
- B. x and y commute with each other
- C. x and y are invertible
- D. None of these

28. Simplify the expression:  $b - [b - (a + b) - \{b - (b - a + b)\} + 2a]$

- A. a
- B. 4a
- C. 0
- D. 2a

29. Two ships are anchored in the sea on opposite sides of a lighthouse. The angle of elevation of the top of the lighthouse observed from the two ships is  $30^\circ$  and  $45^\circ$  respectively. If the lighthouse is 100 m high, the distance between the two ships is

- A. 273 m
- B. 173 m
- C. 300 m
- D. 200 m

30. In a circle with radius 21 cm, an arc subtends an angle of  $72^\circ$  at the centre. The length of the arc is

- A. 26.4 cm
- B. 21.6 cm
- C. 13.2 cm
- D. 19.8 cm

31. If A is an invertible matrix and  $A^2 - A + I = 0$ , then the inverse of A is

- A.  $I - A$
- B.  $I + A$
- C.  $I + A^2$
- D.  $I - A^2$

32. The lengths of three perpendiculars from a point inside an equilateral triangle on the three sides are 16 cm, 25 cm and 28 cm. The area of the triangle (in  $\text{cm}^2$ ) will be

- A.  $1587\sqrt{3}$
- B. 1587
- C. 2116
- D.  $2116\sqrt{3}$

33. Find the slope of the tangent to the curve in the XY plane given by  $x = t^2 + 3t - 8$ ,  $y = 2t^2 - 2t - 5$  at  $t = 2$ .

- A.  $2/7$
- B.  $6/7$
- C.  $2/5$
- D.  $5/6$

34. A and B can together complete a piece of work in 4 days. If A alone can complete the same work in 12 days, in how many days can B alone complete that work?

- A. 7 days
- B. 6 days
- C. 4 days
- D. 5 days

35. Find the value of x from the equation

$$6^{x^2+3x} = 1/36$$

- A. 2
- B. -1 and -2
- C. 1
- D. Both 1 and 2

36. The frequency distribution of the age of 130 persons is given as

Age	Number of persons
0 - 30	15
30-50	25
50-60	40
60-100	50

What is the minimum age of the oldest 20 percent of the person?

- A. 80.8
- B. 80
- C. 90
- D. 79.2

37.  $\int_{-1}^1 x^3(x^4 + 1)^3 dx$  equals

- A. 2
- B. 0
- C. 1
- D. 3

38. The functions f and g are defined as  $f = \{(2,4), (6,10), (8,2)\}$  and  $g = \{(4,6), (10,2), (2,6)\}$ . Then fog & gof will be

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- A.  $fog = \{(10,4),(4,10),(10,2)\}$  and  $gof = \{(6,2),(2,6),(6,8)\}$   
 B.  $fog = \{(4,10),(10,4),(2,10)\}$  and  $gof = \{(2,6),(6,2),(8,6)\}$   
 C.  $fog = \{(4,8), (2,2), (6,6)\}$  and  $gof = \{(8,4), (2,2), (6,10)\}$   
 D. They do not exist

39. Evaluate  $\int (x^6 + x^3 + 1) dx$

- A.  $\frac{x^6}{6} + \frac{x^3}{3} + x + c$   
 B.  $\frac{x^9}{9} + \frac{x^6}{6} + x^3 + c$   
 C.  $\frac{x^8}{8} + \frac{x^7}{7} + x^6 + c$   
 D.  $\frac{x^7}{7} + \frac{x^4}{4} + x + c$

40. The value of  $\begin{vmatrix} x & a & x+a \\ y & b & y+b \\ z & c & z+c \end{vmatrix}$

- A. 0  
 B. a  
 C. 1  
 D. a + b

41. The maximum value of  $f(x) = \sin x + \sqrt{3} \cos x$  occurs when x equals

- A.  $\pi$   
 B.  $\pi/2$   
 C.  $\pi/6$   
 D.  $\pi/4$

42. The value of  $\lim_{x \rightarrow 0} \left( \frac{1+5x^2}{1+3x^2} \right)^{\frac{1}{x^2}}$  is

- A.  $e^4$   
 B.  $e^3$   
 C.  $e^2$   
 D. None of these

43. If  $\sin(\sin^{-1} x + \cos^{-1} x) = 1$  then the value of x is

- A. 1  
 B. 0  
 C.  $2/3$   
 D.  $1/2$

44. The Value of x if

$$\begin{pmatrix} x+y+z \\ x+z \\ y+z \end{pmatrix} = \begin{pmatrix} 9 \\ 5 \\ 7 \end{pmatrix}$$

- A. 2  
 B. 1  
 C. 3  
 D. 4

45. Find the value of k, if the area of the triangle is 12 square units with vertices (0,0), (k,0) and (4,3)

- A. k = 0  
 B. k = 9  
 C. k = 8  
 D. k = 6

46. A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?

- A.  $2/7$   
 B.  $10/21$   
 C.  $11/21$   
 D. None of these

47. ABCD is a parallelogram, if the coordinates of A, B and C are (4, 6), (2, 8) and (0,-4) respectively, what is the coordinate of D?

- A. (6,-4)  
 B. (2,-6)  
 C. (4,-4)  
 D. (2,-4)

48. The angle between the planes  $x - y + 2z = 9$  and  $2x + y + z = 7$  is

- A.  $75^\circ$   
 B.  $90^\circ$   
 C.  $45^\circ$   
 D.  $60^\circ$

49. The minimum distance of the point (3, -5, 12) from x-axis is

- A. 11  
 B. 13  
 C. 12  
 D. None of these

50. On a railway line there are 20 stops. A ticket is needed to travel between any two stops.



How Many different tickets can be prepared to cater to all the travel possibilities?

- A. 380
- B. 760
- C. 190
- D. 72

51. In India, the Parliament is made up of

- I. Lok Sabha
  - II. Rajya Sabha
  - III. President
  - IV. Vice President
  - V. Lok Sabha Speaker
- A. Only I and II
  - B. I, II, and III
  - C. I, II, and V
  - D. All of the above

52. India is the largest emitter of which harmful gas in 2017?

- A. Nitrous Oxide
- B. Carbon Monoxide
- C. Sulphur trioxide
- D. Sulphur Dioxide

53. The world's smallest country is

- A. Maldives
- B. Peru
- C. Bhutan
- D. Vatican City

54. The Telecom company, Nokia originally belongs to which country?

- A. USA
- B. Finland
- C. Sweden
- D. Denmark

55. Which is the first industry using plasma technology for the disposal of hazardous waste for the conservation of the environment and natural resources?

- A. Steel Authority of India Limited (SAIL)
- B. Madras Rubber Factory (MRF)
- C. Madras Fertilizers Limited (MFL)
- D. Bharat Sanchar Nigam Limited (BSNL)

56. Headquarters of the SAARC is located at?

- A. Jakarta
- B. Katmandu
- C. New Delhi

D. Manila

57. Which of the following organizations/ agency has established a fund known as 'Investor Protection Fund'?

- A. NSE
- B. Interconnected Stock Exchange (ISE)
- C. SEBI
- D. Ministry of Finance

58. Sultan Azlan Shah Cup is related to which of the following Sports?

- A. Badminton
- B. Table Tennis
- C. Cricket
- D. Hockey

59. Sagarbandhu, the CSR initiative for helping the fishermen in Gujarat, is the CSR initiative of which company?

- A. HUL
- B. Tata Power
- C. Indian Oil Limited
- D. RIL

60. Which state launches India's first social audit law?

- A. Tamil Nadu
- B. Kerala
- C. Meghalaya
- D. West Bengal

61. Which Article is related to "Abolition of Untouchability"?

- A. Article 20
- B. Article 18
- C. Article 19
- D. Article 17

62. Name the first city of India to roll out the supply of ultra-clean Bharat Stage VI grade fuel.

- A. Mumbai
- B. Faridabad
- C. New Delhi
- D. Hyderabad

63. Who is the Chief Justice of India?

- A. Dipak Misra
- B. Sharad Arvind Bobde
- C. T.S. Thakur
- D. Jagdish Singh Kehkar

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64. Laissez Faire policy is adopted in:

- A. Open Economic System
- B. Mixed Economic System
- C. Regulated Economic System
- D. Controlled Economic System

65. Which Indian Olympian boxer won her fifth gold at the 2017 Asian Championships?

- A. Kavita Goyat
- B. Mary Com
- C. Sarjubala Devi
- D. Laishram Sarita Devi

66. Deficiency of red cells in blood causes:

- A. Osteoporosis
- B. Anemia
- C. Tuberculosis
- D. Chronic infection

67. Om Prakash Rawat is:

- A. India's envoy to Pakistan
- B. Chief of Army Staff
- C. Deputy Governor of RBI
- D. Chief Election Commissioner

68. If both the President and the Vice President are unavailable, who among the following would discharge the functions?

- A. Prime minister
- B. Lok Sabha Speaker
- C. Chief Justice of India
- D. Any person nominated by President or Vice President

69. Many times we read in financial newspapers about 'FII'. What is the full form of FII?

- A. Final Investment in India
- B. Formal Investment in India
- C. Foreign Investment in India
- D. Foreign Institutional Investment

70. Which actress has received National Award for best acting in 2018?

- A. Sonam Kapoor
- B. Deepika Padukone
- C. Divya Dutta
- D. Sridevi

71. Who has been named TIME Person of the year 2017?

- A. The Silence Breakers

B. Prime Minister Narendra Modi

- C. President Donald Trump
- D. President Xi Jinping

72. Garbine Muguruza winner of Women's Singles Match in Wimbledon (2017) Tennis Tournament belongs to which country?

- A. United States of America
- B. Israel
- C. Spain
- D. Switzerland

73. Tuticorin is:

- A. From where Agni 5 was launched
- B. Birthplace of former president Abdul Kalam
- C. Where Rajeev Gandhi was assassinated
- D. Town in Tamil Nadu where Sterlite Copper Company is located

74. Which portal was launched to make online complaints of sexual harassment in the workplace for women employees?

- A. Help-Box
- B. She-Box
- C. Empower-Box
- D. None of these

75. Which among the following neighboring countries of India is the largest producer of Opium in the World?

- A. Maldives
- B. Srilanka
- C. Pakistan
- D. Afghanistan

76. Complete the following sequence:

ACEG, IKMO, \_\_\_\_\_, YACE

- A. QSVX
- B. PRTV
- C. QSUW
- D. UVSQ

77. If the code for NAME is 13261422, then what will be the code for TEAM?

- A. 1426227
- B. 7222614
- C. 7142622
- D. 7262214

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78. Here are some words translated from an artificial language.

Tamceno means sky blue

Cenorax means blue cheese

Aplmitl means star bright

Which word could mean "bright sky"?

- A. cenotam
- B. Raxmitl
- C. aplceno
- D. Mitltam

79. I am facing South. I turn right and walk 20 m. Then I turn right again and walk 10 m. Then I turn left and walk 10 m and then turning right walk 20 m. Then, I turn right again and walk 60 m. In which direction am I from the starting point?

- A. West
- B. North-West
- C. North-East
- D. North

80. Fact 1: Kamal has four vehicles.

Fact 2: Two of the vehicles are red.

Fact 3: One of the vehicles is a minivan.

If the first three statements are facts, then which of the following statements must also be a fact?

- I. Kamal has a red minivan.
  - II. Kamal has three cars.
  - III. Kamal's favourite colour is red.
- A. I only
  - B. II and III only
  - C. None of the statements is a known fact
  - D. II only

81. In a certain code, SIKKIM is written as THLJLL, how is TRAINING written in that code?

- A. UBQHOHOI
- B. UQBHOHOF
- C. UQBOHIOF
- D. SBQHOHOF

82. In a certain language, "You are great" means "Water is cold". "They are poor" means "rain is heavy" and "poor not great" means "heavy never cold". Which word stands for "rain"?

- A. poor
- B. not
- C. you

D. they

83. If the 3<sup>rd</sup> of a month falls on Friday, what day will it be on the 4<sup>th</sup> day after the 21<sup>st</sup> of this month?

- A. Saturday
- B. Monday
- C. Friday
- D. Thursday

84. In the question below two statements are followed by three conclusions numbered I, II and III. Taking the two statements given as true, read all the conclusions and select the conclusions that follow from the given statement.

Statements:

I. All roads are trees

II. No tree is soap.

Conclusions:

- I. No soap is a road
  - II. Some trees are roads
  - III. No road is a soap
- A. Only III
  - B. Only I
  - C. Only II
  - D. I, II and III

85. Complete the following sequence:

5G7, 7H10, 10I14, 14J19, \_\_\_\_\_

- A. 18K21
- B. 16K20
- C. 19K25
- D. 17K21

86. Choose the pair that best represents a similar relationship to the one expressed in the original pair of words - DEPRESSED : SAD

- A. progressive : regressive
- B. towering : cringing
- C. exhausted : tired
- D. neat : considerate

87. Mohan is 18<sup>th</sup> from either end of a row of boys. How many boys are there in that row?

- A. 26
- B. 32
- C. 24
- D. 35

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88. The first pair of two numbers follows some paired relationship, using a similar analogy to that of the first pair, find the missing number in the second pair –

63: 80 :: 15: ?

- A. 24
- B. 12
- C. 13
- D. 42

89. One morning after sunrise Vikram and Shailesh were standing in a lawn with their backs toward each other. Vikram's shadow fell exactly towards the left-hand side. In which direction was Shailesh facing?

- A. West
- B. North
- C. East
- D. South

**Direction (90 – 92) :** Read the information given in and on the basis of the information, answer the questions.

At a small company, parking spaces are reserved for the top executives: CEO, president, vice- president, secretary, and treasurer with the spaces lined up in that order. The parking lot guard can tell at a glance if the cars are parked correctly by looking at the colour of the cars. The cars are yellow, green, purple, red, and blue, and the executive's names are Alice, Bert, Cheryl, David, and Enid.

- The car in the first space is red.
- A blue car is parked between the red car and the green car.
- The car in the last space is purple.
- The secretary drives a yellow car.
- Alice's car is parked next to David's.
- Enid drives a green car.
- Bert's car is parked between Cheryl's and Enid's.
- David's car is parked in the last space.

90.

Who is the CEO?

- A. Alice
- B. David
- C. Bert
- D. Cheryl

91. Who is the secretary?

- A. Enid
- B. Alice
- C. David
- D. Cheryl

92. What colour is the vice president's car?

- A. yellow
- B. green
- C. blue
- D. purple

###COMMON###93###97###**Direction:** Read the information given in and on the basis of the information, answer the questions.

A TV channel is going to telecast 6 sappy soaps over the week – Sob, Cry, Weep, Wail, Lament and Moan. One of these will be telecast each day from Monday to Saturday, with Sunday being a fun day. The conditions specified by the Boss are as follows:

- Sob must be telecast earlier in the week than Lament.
- Weep must be telecast on Tuesday
- Wail must be telecast on the day immediately before or immediately after the day on which Cry is Telecast

93.

If Wail is to be featured on Thursday, the latest day on which Sob can be telecast is

- A. Monday
- B. Friday
- C. Tuesday
- D. Wednesday

94. If Cry is telecast on Thursday, the earliest day on which Lament can be featured is:

- A. Monday
- B. Friday
- C. Tuesday
- D. Wednesday

95. If Moan is to be telecast on Friday, Sob must be telecast on:

- A. Monday
- B. Thursday
- C. Tuesday
- D. Wednesday

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96.If Moan is to be telecast on Thursday, which of the following is strictly true?

- A. Lament must be telecast on Wednesday
- B. Wail must be telecast exactly two days after Lament is telecast
- C. Sob must be telecast on Wednesday
- D. Cry must be telecast on Saturday

97.Which of the following soaps can be telecast on Monday?

- A. Lament
- B. Weep
- C. Moan
- D. Cry

###COMMON###98###100###**Direction:** Read the information given below and answer the questions that follow:  
Six persons are sitting in a circle. A is facing B . B is to the right of E and left of C . C is to the left of D. F is to the right of A . Now, D exchanges his seat with F and E with B

98.

Who is sitting to the left of D?

- A. D
- B. E
- C. B
- D. A

99.Who will be sitting to the left of C?

- A. E
- B. B
- C. A
- D. F

100.Who will be sitting opposite to A?

- A. D
- B. E
- C. B
- D. F



###ANSWERS###

1. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

2. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

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5. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have

used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

6. Ans. A.

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7. Ans. A.

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8. Ans. A.

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9. Ans. A.

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use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

11. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

12. Ans. A.

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13. Ans. A.

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14. Ans. A.

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15. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

16. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

17. Ans. A.

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18. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

19. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because

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they do not modify the given noun accurately.

20. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

21. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

22. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

23. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

24. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have

used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

25. Ans. A.

It is apparent as all the other options are incorrect. Option A is correct because we use the indefinite article 'an' to modify the words that begin with a vowel sound. Here, 'honour' begins with a vowel sound, also it is a singular noun. Hence, we have used the determiner 'an' to modify it. Options B, C and D are incorrect because they do not modify the given noun accurately.

26. Ans. C.

We know that, sum of all exterior angles of a regular polygon with 'n' sides =  $360^\circ$   
Sum of all interior angles of a regular polygon with 'n' sides =  $(n-2) 180^\circ$   
Now, according to the question,

$$\frac{360^\circ}{(n-2) 180^\circ} = \frac{1}{17}$$

$$\Rightarrow (n-2) = 34 \Rightarrow n = 36$$

Hence, number of sides of a regular polygon = 36

27. Ans. B.

It is not sure that matrices 'X' and 'Y' will be invertible but it is sure that matrices 'X' and 'Y' will follow commutative property of matrix.

28. Ans. C.

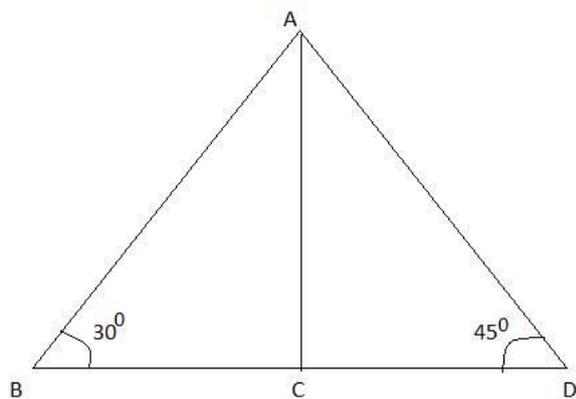
$$\begin{aligned} & b - [b - (a + b) - \{b - (b - a + b)\}] + 2a \\ &= b - [b - (a + b) - b + b - a + b + 2a] \\ &= b - [b - a - b - b + b - a + b + 2a] \\ &= 0 \end{aligned}$$

29. Ans. A.

Let AC be a lighthouse and its length is given i.e., 100 m.

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$$\frac{AB}{BC} = \frac{100}{BC}$$

Now,  $\tan 30^\circ = \frac{AC}{BC} = \frac{100}{BC}$

$$\Rightarrow \frac{100}{BC} = \frac{1}{\sqrt{3}} \Rightarrow BC = 100\sqrt{3} \text{ m}$$

$$\frac{AC}{CD} = \frac{100}{CD}$$

Again,  $\tan 45^\circ = \frac{AC}{CD} = \frac{100}{CD}$

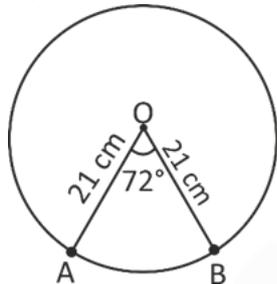
$$\Rightarrow \frac{100}{CD} = 1 \Rightarrow CD = 100 \text{ m}$$

Required distance =  $BC + CD = 100\sqrt{3} + 100$

$$= 100(\sqrt{3} + 1)$$

$$= 100(1.73 + 1) = 2.73 \times 100 = 273 \text{ m}$$

30. Ans. A.



$$\text{Length of arc} = \frac{\theta}{360} \times 2\pi r$$

$$= \frac{72}{360} \times 2 \times \frac{22}{7} \times 21$$

$$= \frac{2 \times 22 \times 3}{5} = 26.4 \text{ cm}$$

31. Ans. A.

Given,  $A^2 - A + I = 0$

Multiply by  $A^{-1}$  in both sides,

$$A^2 \cdot A^{-1} - A \cdot A^{-1} + I \cdot A^{-1} = 0 \cdot A^{-1}$$

$$\Rightarrow A \cdot A \cdot A^{-1} - I + A^{-1} = 0$$

$$\Rightarrow A \cdot I - I + A^{-1} = 0$$

$$\Rightarrow A^{-1} = I - A \cdot I = I - A$$

32. Ans. A.

We know that, in any equilateral triangle, the sum of the perpendicular distances from any interior point to the sides of the triangle is equal to the altitude of the triangle.

So, Sum of lengths of perpendicular = Height of an equilateral  $\Delta$

$$16 + 25 + 28 = \frac{\sqrt{3}}{2} a$$

$$69 = \frac{\sqrt{3}}{2} a \Rightarrow a = \frac{138}{\sqrt{3}}$$

$$\Delta = \frac{\sqrt{3}}{4} a^2$$

Area of equilateral

$$= \frac{\sqrt{3}}{4} \times \frac{138 \times 138}{3} = 1587\sqrt{3} \text{ cm}^2$$

33. Ans. B.

$$\frac{dy}{dx} = \frac{dy/dt}{dx/dt} = \frac{d(2t^2 - 2t - 5)/dt}{d(t^2 + 3t - 8)/dt} = \frac{4t - 2}{2t + 3}$$

$$\frac{dy}{dx} \Big|_{t=2} = \frac{4(2) - 2}{2(2) + 3} = \frac{6}{7}$$

34. Ans. B.

Required number of days

$$= \frac{1}{4} - \frac{1}{12} = \frac{3-1}{12} = \frac{2}{12} = \frac{1}{6}$$

Hence, 'B' alone can complete the work in 6 days.

35. Ans. B.

$$6^{x^2+3x} = \frac{1}{36}$$

$$\Rightarrow 6^{x^2+3x} = \left(\frac{1}{6}\right)^2 = 6^{-2}$$

$$\Rightarrow x^2 + 3x = -2$$

$$\Rightarrow x^2 + 3x + 2 = 0$$

$$\Rightarrow x^2 + 2x + x + 2 = 0$$

$$\Rightarrow x(x + 2) + 1(x + 2) = 0$$

$$\Rightarrow (x + 1)(x + 2) = 0$$

$$\Rightarrow x = -1, -2$$

36. Ans. D.

$$130 \times \frac{20}{100} = 26$$

Class size for interval (60 - 100) i.e. oldest person = 40

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Here, series will be as follows:  
60, 60 + d, 60 + 2d, ..... up to 50 terms.  
(here 'd' is the common difference)

$$\frac{40}{50} = 0.8$$

Common difference, d = 0.8  
Series will be: 60, 60.8, 61.6, .....  
25<sup>th</sup> term =  $t_{25} = a + 24d = 60 + 24 \times 0.8$   
= 79.2

Hence, required age = 79.2

37. Ans. B.

Put  $x^4 + 1 = t$

$$\Rightarrow \frac{dt}{dx} = 4x^3$$

$$\Rightarrow dt = 4x^3 dx$$

$$x^3 dx = \frac{dt}{4}$$

Now, limiting value will be:

$$(-1)^4 + 1 = 2, \text{ and}$$

$$(1)^4 + 1 = 2$$

$$\text{So, } \frac{1}{4} \int_2^2 t dt = 0$$

$$\left[ \int_a^a F(x) dx = 0 \right]$$

38. Ans. B.

$f \circ g = f[g(x)]$	Domain	Range
	4	10
	10	4
	2	10

$$f(g(4)) = f(6) = 10$$

$$f(g(10)) = f(2) = 4$$

$$f(g(2)) = f(6) = 10$$

$g \circ f = g[f(x)]$	Domain	Range
	2	6
	6	2
	8	6

$$g(f(2)) = g(4) = 6$$

$$g(f(6)) = g(10) = 2$$

$$g(f(8)) = g(2) = 6$$

So,  $f \circ g = \{(4, 10), (10, 4), (2, 10)\}$  and

$g \circ f = \{(2, 6), (6, 2), (8, 6)\}$

39. Ans. B.

Put  $x^3 = t$

$$\int (t^2 + t + 1) dt$$

$$= \frac{t^3}{3} + \frac{t^3}{2} + t + c$$

$$= \frac{x^9}{3} + \frac{x^6}{2} + x^3 + c \quad (\because x^3 = t)$$

40. Ans. A.

$$\begin{vmatrix} x & a & x \\ y & b & y \\ z & c & z \end{vmatrix} + \begin{vmatrix} x & a & a \\ y & b & b \\ z & c & c \end{vmatrix}$$

$$= 0 + 0 = 0 \text{ [Since, two rows are same]}$$

41. Ans. C.

To get maximum value,

$$f'(x) = 0$$

$$\Rightarrow \cos x - \sqrt{3} \sin x = 0$$

$$\Rightarrow \frac{\sin x}{\cos x} = \frac{1}{\sqrt{3}}$$

$$\Rightarrow \tan x = \frac{1}{\sqrt{3}}$$

$$\Rightarrow x = 30^\circ = \frac{\pi}{6}$$

42. Ans. C.

$$\lim_{x \rightarrow 0} \left( \frac{1 + 5x^2}{1 + 3x^2} \right)^{\frac{1}{x^2}} = \lim_{x \rightarrow 0} \frac{(1 + 5x^2)^{\frac{1}{x^2}}}{(1 + 3x^2)^{\frac{1}{x^2}}}$$

$$= \frac{\lim_{x \rightarrow 0} (1 + 5x^2)^{\frac{5}{3x^2}}}{\lim_{x \rightarrow 0} (1 + 3x^2)^{\frac{3}{3x^2}}} = \frac{e^5}{e^3}$$

$$\left[ \because \lim_{x \rightarrow 0} (1 + x)^{\frac{1}{x}} = e \right]$$

$$= e^{5-3} = e^2$$

43. Ans. D.

$$\sin \left( \sin^{-1} \frac{1}{2} + \cos^{-1} x \right) = 1$$

Given,

$$\Rightarrow \sin^{-1} \frac{1}{2} + \cos^{-1} x = \sin^{-1}(1) = \frac{\pi}{2}$$

$$\sin^{-1} x + \cos^{-1} x = \frac{\pi}{2}$$

We know that,

After comparing, we get

$$x = 1/2$$

44. Ans. A.

Given,

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$$\begin{bmatrix} x+y+z \\ x+z \\ y+z \end{bmatrix} = \begin{bmatrix} 9 \\ 5 \\ 7 \end{bmatrix}$$

Here,  $x + y + z = 9 \dots(1)$

$x + z = 5 \dots(2)$

$y + z = 7 \dots(3)$

From equation (1) and (3),

$$y = 9 - 5 = 4$$

Again,  $z = 7 - 4 = 3$  [from (3)]

Now, put value of  $y$  and  $z$  in equation (1)

$$x + 4 + 3 = 9$$

$$\Rightarrow x = 9 - 7 = 2$$

45. Ans. C.

Area

$$\Delta = \frac{1}{2} [x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)]$$

$$\Rightarrow \frac{1}{2} [0(0 - 3) + k(3 - 0) + 4(0 - 0)] = 12$$

$$\Rightarrow \frac{1}{2} [3k] = 12 \Rightarrow 3k = 24$$

$$\Rightarrow k = 8$$

46. Ans. B.

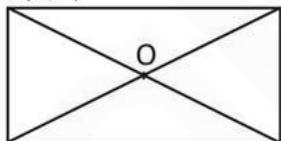
$$\frac{5c_2}{7c_2} = \frac{5!}{\frac{2!3!}{7!}} = \frac{5!}{2!5!}$$

Required probability =

$$= \frac{5 \times 4}{7 \times 6} = \frac{10}{21}$$

47. Ans. B.

A (4,6) B(2, 8)



D(m,n) C(0, -4)

Let coordinate of  $D$  is  $(m, n)$  and  $O$  is the mid-point of diagonals  $AC$  and  $BD$ .

$$\left( \frac{4+0}{2}, \frac{6-4}{2} \right) \equiv \left( \frac{m+2}{2}, \frac{n+8}{2} \right)$$

$$\Rightarrow (2,1) \equiv \left( \frac{m+2}{2}, \frac{n+8}{2} \right)$$

$$\Rightarrow \frac{m+2}{2} = 2 \text{ and } \frac{n+8}{2} = 1$$

$$\Rightarrow m = 2 \text{ and } n = -6$$

Hence, coordinate of  $D$  is  $(2, -6)$ .

48. Ans. D.

Let equation of plane 1 and 2 be  $a_1x + b_1y + c_1z + d_1 = 0$  and  $a_2x + b_2y + c_2z + d_2 = 0$ , respectively.

Here,  $a_1 = 1, b_1 = -1, c_1 = 2, d_1 = -9$  and  $a_2 = 2, b_2 = 1, c_2 = 1, d_2 = -7$

we know that,

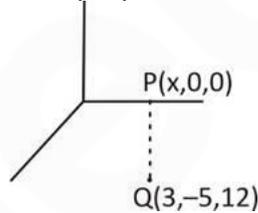
$$\cos \theta = \left| \frac{a_1a_2 + b_1b_2 + c_1c_2}{\sqrt{a_1^2 + b_1^2 + c_1^2} \cdot \sqrt{a_2^2 + b_2^2 + c_2^2}} \right|$$

$$\Rightarrow \cos \theta = \left| \frac{(1 \times 2) + (-1 \times 1) + (2 \times 1)}{\sqrt{1+1+4} \cdot \sqrt{4+1+1}} \right| = \left| \frac{2-1+2}{\sqrt{6} \cdot \sqrt{6}} \right|$$

$$\Rightarrow \cos \theta = \left| \frac{3}{6} \right| = \frac{1}{2} \Rightarrow \theta = 60^\circ$$

49. Ans. B.

We know that, minimum distance always be a perpendicular distance.



Here  $x = 3$

$$PQ = \sqrt{(x-3)^2 + (0+5)^2 + (0-12)^2}$$

$$= \sqrt{(3-3)^2 + (0+5)^2 + (0-12)^2}$$

$$= \sqrt{25+144} = \sqrt{169} = 13$$

Hence, minimum distance = 13 unit

50. Ans. A.

Required number of tickets

$$= 2 \times {}^{20}C_2$$

$$= 2 \times \frac{20 \times 19}{2} = 380$$

51. Ans. B.

Parliament is the supreme legislative body of India. The Indian Parliament comprises of the President and the two Houses - Rajya Sabha (Council of States) and Lok Sabha (House of the People). The President has the power to summon and prorogue either House of Parliament or to dissolve Lok Sabha.

52. Ans. D.

In August last year, a study by Greenpeace had claimed that India is the world's largest emitter of anthropogenic

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sulphur dioxide, which is produced from coal burning, and greatly contributes to air pollution.

53. Ans. D.

Based on the landmass, Vatican City is the smallest country in the world, measuring just 0.2 square miles, almost 120 times smaller than the island of Manhattan. Situated on the western bank of the Tiber River, Vatican City's 2-mile border is landlocked by Italy.

54. Ans. B.

Nokia Corporation is a Finnish multinational telecommunications, information technology, and consumer electronics company, founded in 1865. Nokia's headquarters are in Espoo, Finland, in the greater Helsinki metropolitan area.

55. Ans. A.

SAIL-BSP to be the first to use plasma technology for toxic waste disposal. File photo of SAIL's Bhilai plant (BSP). State-run Steel Authority of India Limited (SAIL) would be using plasma technology for the disposal of hazardous waste for the conservation of the environment and natural resources.

56. Ans. B.

The South Asian Association for Regional Cooperation is the regional intergovernmental organization and geopolitical union of states in South Asia. Its member states are Afghanistan, Bangladesh, Bhutan, India, the Maldives, Nepal, Pakistan, and Sri Lanka. Headquartered at Katmandu, Nepal.

57. Ans. A.

NSE has established an Investor Protection Fund to compensate investors in the event of defaulters' assets not being sufficient to meet the admitted claims of investors, promoting investor education, awareness, and research.

58. Ans. D.

The Sultan Azlan Shah Cup is an annual invitational international men's field hockey tournament held in Malaysia. It began in 1983 as a biennial contest. The tournament became an annual event after 1998, following its growth and popularity.

59. Ans. B.

A subsidiary of Tata Power Company, Coastal Gujarat Private Limited (CGPL), has their 4000MW Ultra Mega Power Plant in Kutch and the company being highly involved in Corporate Social Responsibility, launched a community-based sustainable livelihood program in 2014 in partnership with Swadeep, the initiative is called Sagarbandhu.

60. Ans. C.

In April 2017, Meghalaya became the first state in the country to pass social audit legislation, the Meghalaya Community Participation, and Public Services Social Audit Act.

61. Ans. D.

Article 17. Abolition of Untouchability. - "Untouchability" is abolished and its practice in any form is forbidden. The enforcement of any disability arising out of "Untouchability" shall be an offense punishable under law.

62. Ans. C.

Delhi became the first city in India to supply the ultra-clean Bharat Stage (BS) VI grade fuel (both petrol and diesel) to combat the rising levels of air pollution in the Delhi-NCR region.

63. Ans. B.

President Ram Nath Kovind administers the oath of office to Justice Sharad Arvind Bobde after he was appointed as the 47th Chief Justice of India (CJI) at Rashtrapati Bhavan, in New Delhi. Justice Bobde will have a tenure of around 17 months and would demit office on April 23, 2021.

64. Ans. A.

The driving principle behind laissez-faire, a French term that translates as "leave alone" (literally, "let you do"), is that the less the government is involved in the economy, the better business will be—and by extension, society as a whole. Laissez-faire economics is a key part of free-market capitalism.

65. Ans. B.

Mary Kom Wins Her Fifth Gold Medal in The Asian Boxing Championship.

66. Ans. B.

This can happen because there's something wrong with your red blood cells or because you don't have enough minerals and vitamins for your red blood

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cells to form normally. Conditions associated with these causes of anemia include Bone marrow and stem cell problems. Iron-deficiency anemia.

67. Ans. D.

Om Prakash Rawat is a retired 1977 batch Indian Administrative Service officer of the Madhya Pradesh cadre who served as 22nd Chief Election Commissioner of India. He has also served as one of the two Election Commissioners of India and the Public Enterprise Secretary of India.

68. Ans. C.

As per the President (Discharge of Functions) Act, 1969, the Chief justice of India (CJI) shall act as the president of India in the event of the offices of both the president and the vice president being vacant. It happened once in India when Dr. Zakir Hussain died in office and Vice President V. V. Giri acted as the president. Later, Mr. Giri resigned as the vice president. The CJI, Justice Mohammad Hidayatullah then became the acting president of India.

69. Ans. D.

Foreign institutional investment (FIIs) are those institutional investors which invest in the assets belonging to a different country other than that where these organizations are based. A foreign institutional investor is an investor in a financial market outside its official home country. Foreign institutional investors can include pension funds, investment banks, hedge funds, and mutual funds. Some countries place restrictions on the size of investments by foreign investors.

70. Ans. D.

Sridevi bags the National Award for best acting in 2018 for the movie 'MOM'.

71. Ans. A.

The "Silence Breakers," the women who've spoken out against sexual harassment and sexual assault in the workplace, have been named Time's 2017 Person of the Year.

72. Ans. C.

Kenin, an American in her first Grand Slam final, became the tournament's youngest singles champion since Maria Sharapova in 2008. MELBOURNE, Australia — Sofia Kenin became the

youngest Australian Open champion in 12 years on Saturday night, beating Garbiñe Muguruza 4-6, 6-2, 6-2 to claim her first Grand Slam title.

73. Ans. D.

Thoothukudi, also known by its former name Tuticorin, is a port city, a municipal corporation, and an industrial city in the Thoothukudi district in the Indian state of Tamil Nadu. The city lies on the Coromandel Coast of the Bay of Bengal. Sterlite operated the largest copper smelter plant in India, in Thoothukudi from 1998 to 2018. This plant was shut down by the Government of Tamil Nadu on 28 May 2018 after protests from locals but not operational from March 2018.

74. Ans. B.

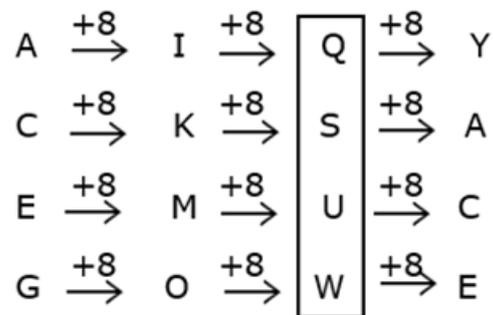
She-Box offers the facility of making online complaints of sexual harassment at the workplace to all women employees in the country including government and private employees.

75. Ans. D.

Afghanistan has been the world's leading illicit opium producer since 2001. Afghanistan's opium poppy harvest produces more than 90% of illicit heroin globally and more than 95% of the European supply. More land is used for opium in Afghanistan than is used for coca cultivation in Latin America. In 2007, 93% of the non-pharmaceutical-grade opiates on the world market originated in Afghanistan. This amounts to an export value of about US\$4 billion, with a quarter being earned by opium farmers and the rest going to district officials, insurgents, warlords, and drug traffickers.

76. Ans. C.

Here the pattern follows is:



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Hence, 'QSUW' is the correct answer.  
77. Ans. B.

Here the value given to each alphabet is as follows:

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

So, we get:

N = 13, A = 26, M = 14, E = 22

Code for NAME is '13261422'

Similarly, we have:

T = 7, E = 22, A = 26, M = 14

Thus, code for TEAM is 7222614.

78. Ans. D.

According to the given information, we have:

Tamceno → sky blue

Cenorax → blue cheese

Aplmitl → star bright

From 1<sup>st</sup> and 2<sup>nd</sup> we get that 'ceno' means 'blue', 'tam' means 'sky' and 'rax' means 'cheese'.

So, the code for "bright sky" must contain the word 'tam'. So, answer is either option 1 or option 4.

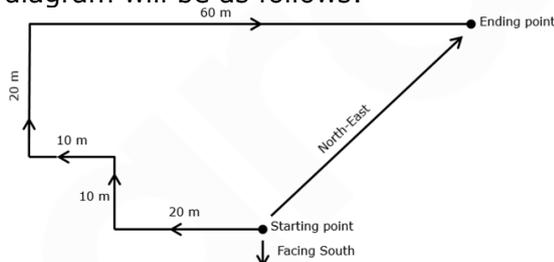
Since, 'ceno' means 'blue' so 'cenotam' means 'blue sky'.

So, we get that 'mitl' means 'bright'.

Thus, "bright sky" means "mitltam".

79. Ans. C.

According to the given information, the diagram will be as follows:



Hence, ending position will be north-east with respect to the initial position.

80. Ans. C.

I. Kamal has a red minivan – Kamal has a minivan which can be of red colour or not so it is not definitely true.

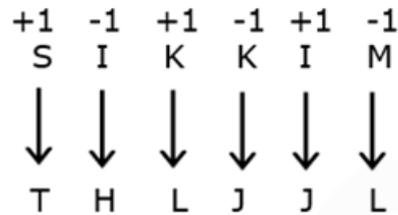
II. Kamal has three cars – Kamal has three vehicles but types of vehicles are not given so it may be possible but not definitely true.

III. Kamal's favourite colour is red – Again it is not definitely true as it can't be derived from the given three facts.

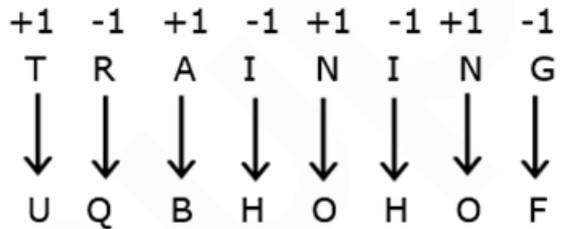
Hence, none of the statements is a fact.

81. Ans. B.

Here the pattern follows as,



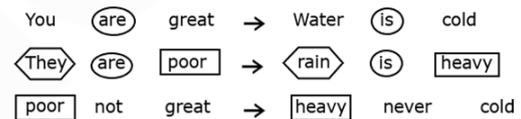
Similarly, we have:



Hence, the code for 'TRAINING' is "UQBHOHOF".

82. Ans. D.

According to the given information, we have:



Hence, code for 'rain' is 'they'.

83. Ans. A.

Given, 3<sup>rd</sup> of a month = Friday

So, Friday will fall on every 7<sup>th</sup> day i.e. 10, 17 and 24<sup>th</sup>.

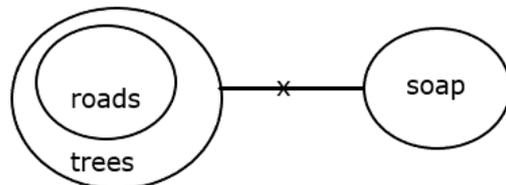
4<sup>th</sup> day after 21<sup>st</sup> of a month will be 25<sup>th</sup> of a month.

So, we get that there will be a Saturday on 25<sup>th</sup> of a month.

Hence, 'Saturday' is the correct answer.

84. Ans. D.

The least possible Venn diagram will be as follows:



Conclusions:

I. No soap is a road – True (as all roads are trees and no tree is soap).

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II. Some trees are roads – True as shown in the above diagram.

III. No road is a soap - True (as all roads are trees and no tree is soap).

Hence, all the conclusions follow.

85. Ans. C.

Here the pattern follows is:

$$5 \xrightarrow{+2} 7 \xrightarrow{+3} 10 \xrightarrow{+4} 14 \xrightarrow{+5} \dots$$

$$G \xrightarrow{+1} H \xrightarrow{+1} I \xrightarrow{+1} J \xrightarrow{+1} \dots$$

$$7 \xrightarrow{+3} 10 \xrightarrow{+4} 14 \xrightarrow{+5} 19 \xrightarrow{+6} \dots$$

Hence, '19K25' is the correct answer.

86. Ans. C.

Here, Sad is a synonym of Depressed.

Progressive : Regressive – Opposite words.

Towering : Cringing – Opposite words

Exhausted : tired – Synonyms words

Neat : Considerate - Both have different meanings.

Hence, option C is the correct answer.

87. Ans. D.

Since, Mohan's position from both the ends is same i.e. 18<sup>th</sup>. So, there are equal number of boys to each side of the Mohan i.e. 17 number of boys.

Therefore, total number of boys = 17 + 1 (Mohan's position) + 17 = 35.

88. Ans. A.

Here the logic is,

$$63 : 80$$

$$8^2 - 1 : 8^2 + 8 \times 2$$

$$64 - 1 : 64 + 16$$

$$63 : 80$$

Similarly, we have:

$$15 : ?$$

$$4^2 - 1 : ?$$

$$? = 4^2 + 4 \times 2$$

$$= 16 + 8 = 24$$

Hence, 24 is the correct answer.

89. Ans. D.

Since, sun rises in the East so the shadow of any person will fall in the West.

Vikram and Shailesh were standing in a lawn with their backs toward each other and Vikram's shadow fell exactly towards the left-hand side means which means

that Vikram's left hand should be towards West direction and face should be towards North. Hence, Shailesh was facing South direction.

90. Ans. D.

Top executives: CEO, president, vice - president, secretary, and treasurer

Car's colours: Yellow, green, purple, red, and blue.

Executive's names: Alice, Bert, Cheryl, David, and Enid

1) The car in the first space is red.

2) A blue car is parked between the red car and the green car.

3) The car in the last space is purple.

Top Executives	CEO	President	Vice-President	Secretary	Treasurer
Car's Colour	Red	Blue	Green		Purple
Executive's names					

4) The secretary drives a yellow car.

5) Enid drives a green car.

6) David's car is parked in the last space.

Top Executives	CEO	President	Vice-President	Secretary	Treasurer
Car's Colour	Red	Blue	Green	Yellow	Purple
Executive's names			Enid		David's

7) Bert's car is parked between Cheryl's and Enid's.

8) Alice's car is parked next to David's.

Top Executives	CEO	President	Vice-President	Secretary	Treasurer
Car's Colour	Red	Blue	Green	Yellow	Purple
Executive's names	Cheryl	Bert	Enid	Alice	David's

Hence, Cheryl is the CEO.

91. Ans. B.

Top executives: CEO, president, vice - president, secretary, and treasurer

Car's colours: Yellow, green, purple, red, and blue.

Executive's names: Alice, Bert, Cheryl, David, and Enid

1) The car in the first space is red.

2) A blue car is parked between the red car and the green car.

3) The car in the last space is purple.

Top Executives	CEO	President	Vice-President	Secretary	Treasurer
Car's Colour	Red	Blue	Green		Purple
Executive's names					

4) The secretary drives a yellow car.

5) Enid drives a green car.

6) David's car is parked in the last space.

Top Executives	CEO	President	Vice-President	Secretary	Treasurer
Car's Colour	Red	Blue	Green	Yellow	Purple
Executive's names			Enid		David's

7) Bert's car is parked between Cheryl's and Enid's.

8) Alice's car is parked next to David's.

Top Executives	CEO	President	Vice-President	Secretary	Treasurer
Car's Colour	Red	Blue	Green	Yellow	Purple
Executive's names	Cheryl	Bert	Enid	Alice	David's

Hence, Alice is the secretary.

92. Ans. B.

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Top executives: CEO, president, vice - president, secretary, and treasurer  
 Car's colours: Yellow, green, purple, red, and blue.

Executive's names: Alice, Bert, Cheryl, David, and Enid

- 1) The car in the first space is red.
- 2) A blue car is parked between the red car and the green car.
- 3) The car in the last space is purple.

<b>Top Executives</b>	CEO	President	Vice-Pres
<b>Car's Colour</b>	Red	Blue	Green
<b>Executive's names</b>			

- 4) The secretary drives a yellow car.
- 5) Enid drives a green car.
- 6) David's car is parked in the last space.

<b>Top Executives</b>	CEO	President	Vice-President	Secretary	Treasurer
<b>Car's Colour</b>	Red	Blue	Green	Yellow	Purple
<b>Executive's names</b>			Enid		David's

- 7) Bert's car is parked between Cheryl's and Enid's.
- 8) Alice's car is parked next to David's.

<b>Top Executives</b>	CEO	President	Vice-President	Secretary	Treasurer
<b>Car's Colour</b>	Red	Blue	Green	Yellow	Purple
<b>Executive's names</b>	Cheryl	Bert	Enid	Alice	David's

Hence, vice-president's car colour is Green.

93. Ans. B.

6 sappy soaps – Sob, Cry, Weep, Wail, Lament and Moan.

One of these will be telecast each day from Monday to Saturday, with Sunday being a fun day.

- 1) Weep must be telecast on Tuesday

Days of the week	Sappy Soaps
Monday	
Tuesday	Weep
Wednesday	
Thursday	
Friday	
Saturday	

- 2) Sob must be telecast earlier in the week than Lament.

- 3) Wail must be telecast on the day immediately before or immediately after the day on which Cry is Telecast.

Condition given in the question: If Wail is to be featured on Thursday.

Days of the week	Sappy Soaps
Monday	
Tuesday	Weep
Wednesday	
Thursday	Wail
Friday	
Saturday	

Then possible options for Sob (latest) are Friday and Saturday.

But as per point 2, Sob can't be telecast on Saturday. So, it must be telecast on Friday.

Hence, Friday is the correct answer.

94. Ans. D.

6 sappy soaps – Sob, Cry, Weep, Wail, Lament and Moan.

One of these will be telecast each day from Monday to Saturday, with Sunday being a fun day.

- 1) Weep must be telecast on Tuesday

Days of the week	Sappy Soaps
Monday	
Tuesday	Weep
Wednesday	
Thursday	
Friday	
Saturday	

- 2) Sob must be telecast earlier in the week than Lament.

- 3) Wail must be telecast on the day immediately before or immediately after the day on which Cry is Telecast.

Condition given in the question: If Cry is telecast on Thursday.

Days of the week	Sappy Soaps
Monday	
Tuesday	Weep
Wednesday	
Thursday	Cry
Friday	
Saturday	

Then possible options for Lament (earliest days) are Monday and Wednesday.

But as per point 2, Lament can't be telecast on Monday. So, it must be telecast on Wednesday.

Hence, Wednesday is the correct answer.

95. Ans. A.

6 sappy soaps – Sob, Cry, Weep, Wail, Lament and Moan.

One of these will be telecast each day from Monday to Saturday, with Sunday being a fun day.

- 1) Weep must be telecast on Tuesday.

Condition given in the question: If Moan is to be telecast on Friday.



Days of the week	Soppy Soaps
Monday	
Tuesday	Weep
Wednesday	
Thursday	
Friday	Moan
Saturday	

2) Wail must be telecast on the day immediately before or immediately after the day on which Cry is Telecast.

Days of the week	Soppy Soaps
Monday	
Tuesday	Weep
Wednesday	Wail/Cry
Thursday	Cry/Wail
Friday	Moan
Saturday	

3) Sob must be telecast earlier in the week than Lament.

Days of the week	Soppy Soaps
Monday	Sob
Tuesday	Weep
Wednesday	Wail/Cry
Thursday	Cry/Wail
Friday	Moan
Saturday	Lament

Hence, Sob must be telecast on Monday. Hence, Monday is the correct answer.

96. Ans. A.

6 soppy soaps – Sob, Cry, Weep, Wail, Lament and Moan.

One of these will be telecast each day from Monday to Saturday, with Sunday being a fun day.

1) Weep must be telecast on Tuesday.

Condition given in the question: If Moan is to be telecast on Thursday.

Days of the week	Soppy Soaps
Monday	
Tuesday	Weep
Wednesday	
Thursday	Moan
Friday	
Saturday	

2) Wail must be telecast on the day immediately before or immediately after the day on which Cry is Telecast.

Days of the week	Soppy Soaps
Monday	
Tuesday	Weep
Wednesday	
Thursday	Moan
Friday	Wail/Cry
Saturday	Cry/Wail

3) Sob must be telecast earlier in the week than Lament.

Days of the week	Soppy Soaps
Monday	Sob
Tuesday	Weep
Wednesday	Lament
Thursday	Moan
Friday	Wail/Cry
Saturday	Cry/Wail

Hence, "Lament must be telecast on Wednesday" is definitely true.

97. Ans. C.

6 soppy soaps – Sob, Cry, Weep, Wail, Lament and Moan.

One of these will be telecast each day from Monday to Saturday, with Sunday being a fun day.

1) Weep must be telecast on Tuesday

Days of the week	Soppy Soaps
Monday	
Tuesday	Weep
Wednesday	
Thursday	
Friday	
Saturday	

2) Sob must be telecast earlier in the week than Lament.

3) Wail must be telecast on the day immediately before or immediately after the day on which Cry is Telecast.

As per the above conditions, Wail, Cry and Lament can't be telecast on Monday. So, possible options will be either Sob or Moan.

Days of the week	Soppy Soaps
Monday	
Tuesday	Weep
Wednesday	
Thursday	
Friday	
Saturday	

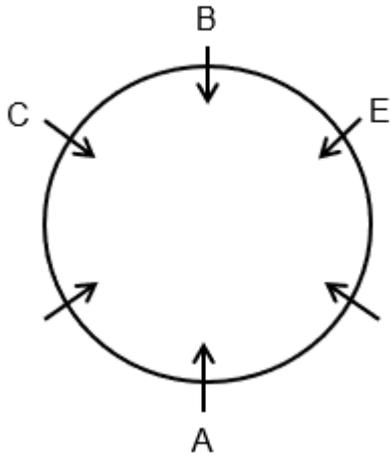
But, Sob is not given in the options. Thus, Moan is the correct answer.

98. Ans. D.

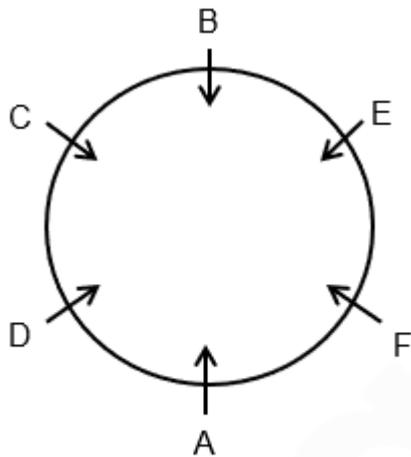
1) Six persons are sitting in a circle.



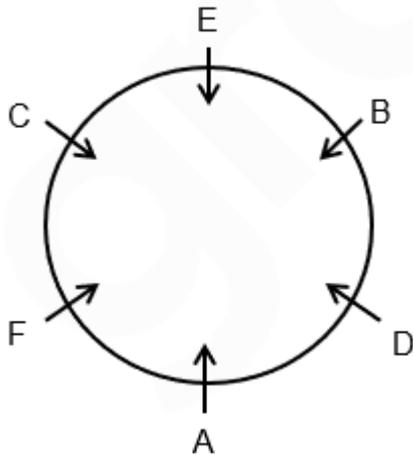
2) A is facing B. B is to the right of E and left of C.



3) C is to the left of D. F is to the right of A.



4) Now, D exchanges his seat with F and E with B.

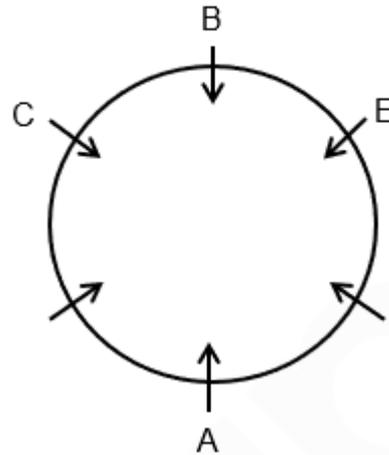


Now, A is sitting to the left of D.

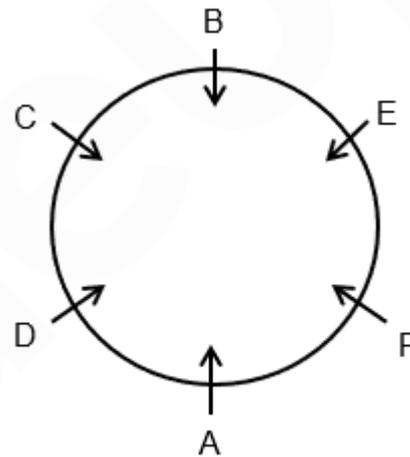
99. Ans. A.

1) Six persons are sitting in a circle.

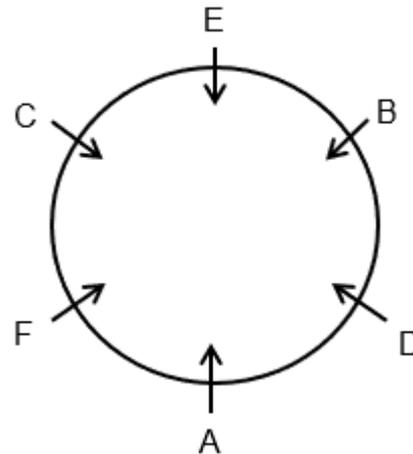
2) A is facing B. B is to the right of E and left of C.



3) C is to the left of D. F is to the right of A.



4) Now, D exchanges his seat with F and E with B.



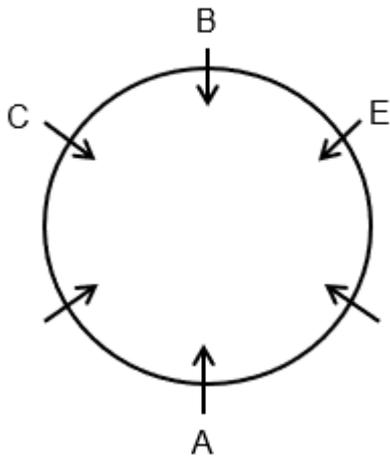
Now, E is sitting to the left of C.

100. Ans. B.

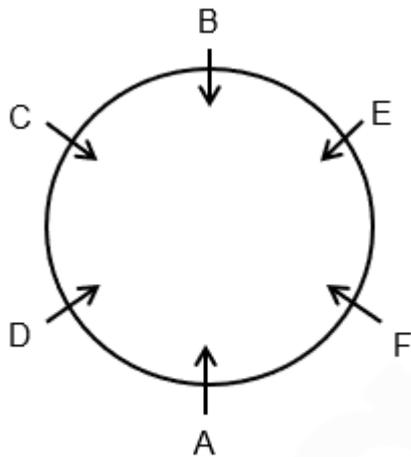
1) Six persons are sitting in a circle.



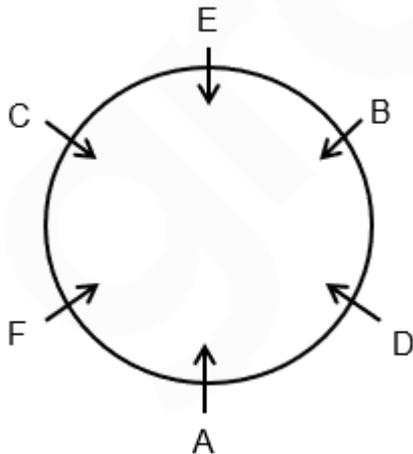
2) A is facing B. B is to the right of E and left of C.



3) C is to the left of D. F is to the right of A.



4) Now, D exchanges his seat with F and E with B.



Now, E is sitting opposite to A.



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