

28. Two numbers are randomly drawn at the same time from nine balls numbered 1, 2, 3, 4, 5, 6, 7, 8 and 9 respectively. Find the probability that the two numbers drawn are consecutive integers.

- A. $\frac{1}{2}$
B. $\frac{1}{4}$
C. $\frac{2}{9}$
D. $\frac{7}{9}$

29. Which of the following can be obtained from any box-and-whisker diagram?

- I. Range
II. Standard deviation
III. Inter-quartile range

- A. I and II only
B. I and III only
C. II and III only
D. I, II and III

30. The table below shows the distribution of the numbers of merits obtained by some students in a year.

Number of merits obtained	6	7	8	9	10
Number of students	32	36	28	18	2

Which of the following is true?

- A. The mode of the distribution is 36.
B. The median of the distribution is 8.
C. The lower quartile of the distribution is 6.
D. The upper quartile of the distribution is 10.

Section B

31. It is given that $\log_3 y$ is a linear function of $\log_3 x$. The intercepts on the vertical axis and on the horizontal axis of the graph of the linear function are 7 and 8 respectively. Which of the following must be true?

- A. $x^4 y^7 = 3^{36}$
B. $x^7 y^4 = 3^{36}$
C. $x^7 y^8 = 3^{36}$
D. $x^8 y^7 = 3^{36}$

32. If $\frac{3}{3 \log x - 2} + 7 = \frac{2}{2 \log x + 1}$, then $\log \frac{1}{x} =$

- A. -3 or 2
B. -2 or 3
C. $-\frac{1}{3}$ or $\frac{1}{2}$
D. $-\frac{1}{2}$ or $-\frac{1}{3}$

33. $100110000010110_2 =$

- A. $19 \times 2^{10} + 22$
B. $19 \times 2^{10} + 44$
C. $19 \times 2^{11} + 22$
D. $19 \times 2^{11} + 44$

34. If a is a real number, then the real part of $\frac{4+i^3}{a+i} - i^4$ is

- A. $\frac{4a+1}{a^2-1}$
B. $\frac{4a+1}{a^2+1}$
C. $\frac{a^2+4a+2}{a^2-1}$
D. $\frac{a^2+4a+2}{a^2+1}$

35. Consider the following system of inequalities:

$$\begin{cases} x + 2y \leq 20 \\ 7x - 6y \leq 20 \\ 13x + 6y \geq 20 \end{cases}$$

Let R be the region which represents the solution of the above system of inequalities. If (x, y) is a point lying in R , then the greatest value of $7x + 8y + 9$ is

- A. 15
B. 77
C. 113
D. 115

36. The sum of the 2nd term and the 5th term of a geometric sequence is 9 while the sum of the 7th term and the 10th term of the sequence is 288. Find the 20th term of the sequence.

- A. 65 536
B. 131 072
C. 262 144
D. 524 288

37. Let k be a constant. The straight line $3x - y - 2 = 0$ and the circle $5x^2 + 5y^2 + kx + 4y - 20 = 0$ intersect at the points P and Q . If the x -coordinate of the mid-point of PQ is 2, find k .

- A. -152
B. -52
C. 148

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