

COMMON QUARTERLY EXAMINATION - SEPTEMBER 2019

Standard - 12

PART - III - MATHEMATICS

Time Allowed: 2.30 Hours

Maximum Marks: 90

Instructions:

1. Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.
2. Use Blue or Black ink to write and underline and pencil to draw diagrams.

PART - I

Note: i) Answer all the questions. 20×1=20
ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

- 1) The rank of the matrix $\begin{bmatrix} 1 & 2 & 3 & 4 \\ 2 & 4 & 6 & 8 \\ -1 & -2 & -3 & -4 \end{bmatrix}$ is
 - a) 2
 - b) 1
 - c) 3
 - d) 4
- 2) If $0 \leq \theta \leq \pi$ and the system of equations $x + (\sin \theta)y - (\cos \theta)z = 0$, $(\cos \theta)x - y + z = 0$, $(\sin \theta)x + y - z = 0$ has a non trivial solution then θ is
 - a) $\frac{5\pi}{6}$
 - b) $\frac{\pi}{4}$
 - c) $\frac{2\pi}{3}$
 - d) $\frac{3\pi}{4}$
- 3) If $|z_1| = 1$, $|z_2| = 2$, $|z_3| = 3$ and $|9z_1z_2 + 4z_1z_3 + z_2z_3| = 12$ then the value of $|z_1 + z_2 + z_3|$ is
 - a) 2
 - b) 1
 - c) 4
 - d) 3
- 4) Which one of the points i , $-2+i$, 2 and 3 is farthest from the origin?
 - a) 3
 - b) $-2+i$
 - c) i
 - d) 2
- 5) If α , β and γ are the zeros of $x^3 + px^2 + qx + r$, then $\sum \frac{1}{\alpha}$ is
 - a) $\frac{q}{r}$
 - b) $\frac{-p}{r}$
 - c) $\frac{-q}{r}$
 - d) $\frac{-q}{p}$
- 6) The range of $\sec^{-1}x$ is
 - a) $[-\pi, \pi] \setminus \left\{ \frac{\pi}{2} \right\}$
 - b) $[0, \pi] \setminus \left\{ \frac{\pi}{2} \right\}$
 - c) $(0, \pi) \setminus \left\{ \frac{\pi}{2} \right\}$
 - d) $(-\pi, \pi) \setminus \left\{ \frac{\pi}{2} \right\}$
- 7) If $P(x, y)$ be any point on $16x^2 + 25y^2 = 400$ with foci $F_1(3, 0)$ and $F_2(-3, 0)$ then $PF_1 + PF_2$ is
 - a) 6
 - b) 8
 - c) 12
 - d) 10
- 8) If the length of the perpendicular from the origin to the plane $2x + 3y + \lambda z = 1$, $\lambda > 0$ is $\frac{1}{5}$, then the value of λ is
 - a) 0
 - b) 1
 - c) $2\sqrt{3}$
 - d) $3\sqrt{2}$
- 9) The system of linear equations $x + y + z = 2$, $2x + y - z = 3$, $3x + 2y + kz = 4$ has a unique solution if
 - a) $k \neq 0$
 - b) $-1 < k < 1$
 - c) $-2 < k < 2$
 - d) $k = 0$

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Jiyuan Zhang



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