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

 Answer all the questions. Note:

 $20 \times 1 = 20$

- 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

 If 0 ≤ θ ≤ π and the system of equations x+(sinθ)y-(cosθ)z = 0, (cosθ)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, +Z, +Z, | is b) 1
- 4) Which one of the points i, -2+i, 2 and 3 is farthest from the origin? (b) -2+i
- 5) If α , β and γ are the zeros of x^3+px^2+qx+r , then $\Sigma \frac{1}{\alpha}$ is

a) = b) = c) = d) = d

6) The range of sec⁻¹x is

a) $\left[-\pi,\pi\right]\setminus\left\{\frac{\pi}{2}\right\}$ b) $\left[0,\pi\right]\setminus\left\{\frac{\pi}{2}\right\}$ c) $\left(0,\pi\right)\setminus\left\{\frac{\pi}{2}\right\}$ d) $\left(-\pi,\pi\right)\setminus\left\{\frac{\pi}{2}\right\}$

- 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, +PF, is b) 8 (c) 1.2 a) 6
- 8) If the length of the perpendicular from the origin to the plane $2x+3y+\lambda z=1$, $\lambda > 0$ is $\frac{1}{2}$, then the value of λ is

a)0

b1 1.

9) The system of linear equations x+y+z=2, 2x+y-z=3, 3x+2y+kz=4 has a unique solution if b) -1 < k < 1 c) -2 < k < 2 d) k = 0

a) $k \neq 0$

Grade 120maths Question Paper

Paul Fannon, Vesna Kadelburg, Ben Woolley, Stephen Ward

Grade 120maths Question Paper:

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