#### 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  $\theta$  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  $\alpha$ ,  $\beta$  and  $\gamma$  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<sup>-1</sup>x 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  $\lambda$  is

a)0

**b**1 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)  $k \neq 0$ 

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**Michael Hoelscher** 

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