

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.

$$20 \times 1 = 20$$

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
 - 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) $k = 0$

Grade 12 Maths Exam Papers June

Richard Bailey



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by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step

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web tubing and casing data tables can be expanded so you can see additional physical properties you can send data entered in any calculator or a particular wellbore to your team correct information is exchanged fast interactive design saves time

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web jun 25 2015 the purpose of preliminary design is to establish casing and corresponding drill bit sizes casing setting depths the number of casing strings casing program well plan is obtained as a result of preliminary design casing program design is accomplished in three major steps mud program is prepared

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5c3 of the american petroleum institute standardizes 14 casing sizes from 4 5 inches 11 43 cm to 20 inches 50 80 cm outside diameter od

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web feb 26 2020 this paper addresses the probabilistic analysis of casing tubulars regarding the failure modes defined in api 5c3 code which refers to the violation of elastic regime due to internal and external pressures and axial force the casing system performs important structural and isolation functions ensuring the well integrity through its life cycle

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