

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

Terry C. Jones



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Maths Handbook & Study Guide Grade 12 Kevin Smith, 2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back Maths Handbook & Study Guide Grade 12: Teacher's Guide and Answer Book

Kevin Smith, 2014-01-01 Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook **Educart CBSE Sample Paper Class 12 2025-26 - Applied Maths (Based on latest CBSE Sample Papers Released on 30-07-25) For 2026 Board Exam** Educart, 2025-10-09 This book is specially designed to give Class 12 students complete preparation for Applied Mathematics in the 2026 CBSE Board Exam It combines NCERT based practice tricky problem solving and exam style papers to ensure conceptual clarity and confidence Book Highlights 5 Solved Papers Fully based on official CBSE sample papers for guided practice 5 Unsolved Papers For self assessment and timed practice NCERT Basics Challenge Unit wise worksheets covering the entire NCERT syllabus Theory Maps Chapter wise summaries for quick revision Targeted Worksheets Practice on tricky and application based NCERT questions 100% Based on Official CBSE 2025 26 Sample Papers Detailed Step by Step Solutions Including marks breakdown tables for precise exam practice Proven Accuracy Maximum Educart questions featured in actual board exams Perfect For Class 12 students aiming to master Applied Mathematics and score confidently in the 2026 CBSE Board Exam

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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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