

Time allowed: 180 min

Marks: 100

General Instructions

- The question paper consists of 3 parts. Each question of each part is compulsory.
- **SEC-A: (10 questions)** Questions 1 to 10 are of 1 mark(s) each
- **SEC-B: (12 questions)** Questions 11 to 22 are of 4 mark(s) each
- **SEC-C: (7 questions)** Questions 23 to 29 are of 6 mark(s) each
- Links to individual answers on clay6.com have also been provided.

SEC-A

(10 x 1 mark = 10 marks)

- 1) What is the angle between following planes $2x - 3y + 4z = 1$ and $-x + y = 4$?
- 2) What is the area of the parallelogram having diagonals $3\vec{i} + \vec{j} - 2\vec{k}$ and $\vec{i} - 3\vec{j} + 4\vec{k}$?
- 3) If $e^{x+y} = xy$, what is $\frac{dy}{dx}$?
- 4) Given $A = \begin{bmatrix} 3 & -3 & 4 \\ 2 & -3 & 4 \\ 0 & -1 & 1 \end{bmatrix}$ Express A^{-1} in terms of A ?
- 5) What does $\cos^{-1} \frac{4}{5} + \cos^{-1} \frac{12}{13}$ reduce to?
- 6) If $\begin{bmatrix} xy & 4 \\ z+6 & x+y \end{bmatrix} = \begin{bmatrix} 8 & w \\ 0 & 6 \end{bmatrix}$ then find the value of x, y, z and w
- 7) If A, B and C are angles of a triangle, then the determinant $\begin{vmatrix} 1 & \cos C & \cos B \\ \cos C & 1 & \cos A \\ \cos B & \cos A & 1 \end{vmatrix}$ is equal to
- 8) Integrate the function $e^x \left(\frac{1}{x} - \frac{1}{x^2} \right)$
- 9) Let $f: \{1, 3, 4\} \rightarrow \{1, 2, 5\}$ and $g: \{1, 2, 5\} \rightarrow \{1, 3\}$ be given by $f = \{(1, 2), (3, 5), (4, 1)\}$ and $g = \{(1, 3), (2, 3), (5, 1)\}$. Write down $g \circ f$.
- 10) Choose the correct answer. The planes: $2x - y + 4z = 5$ and $5x - 2.5y + 10z = 6$ are:

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Grade Booster CBSE Question Bank (Solutions of RD Sharma) Class 12 Munish Sethi, 2025-09-24 Grade Booster CBSE Question Bank Solutions of RD Sharma Class 12 This book offers complete step by step solutions to RD Sharma Mathematics Class 12 aligned with the CBSE curriculum Each chapter is explained clearly with solved examples practice questions and exam oriented tips Designed for board exam preparation and competitive exams like JEE it enables students to strengthen conceptual understanding and sharpen problem solving skills

Teaching to Change the World Jeannie Oakes, Martin Lipton, Lauren Anderson, Jamy Stillman, 2018-01-29 Teaching to Change the World is an up to the moment engaging social justice oriented introduction to education and teaching and the challenges and opportunities they present Both foundational and practical the chapters are organized around conventional topics but in a way that consistently integrates a coherent story that explains why schools are as they are Taking the position that a hopeful democratic future depends on ensuring that all students learn the text pays particular attention to inequalities associated with race social class language gender and other social categories and explores teachers role in addressing them This thoroughly revised fifth edition remains a vital introduction to the profession for a new generation of teachers who seek to become purposeful knowledgeable practitioners in our ever changing educational landscape for those teachers who see the potential for education to change the world

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Oxford Successful Mathematical Literacy Werner Ladewig, Rika Potgieter, Johan Pretorius, Marco Casati, Rob Foote, 2013

Mathematics and Mathematical

Literacy South Africa. Department of Education, 2007 APC Question Bank and Sample Papers in Mathematics for Class 12 - Arya Publishing Company M.L. Aggarwal, Question Bank and Sample Papers in Mathematics for Class XII by Prof M L Aggarwal has been written according to the changed style of question paper relevant for 2015 Board Examinations The Salient Features of the book are Latest Sample Papers issued by the CBSE for 2015 Examinations with solutions Chapterwise Basic Concepts and Important Results Chapterwise Assignments for Practice 1 mark 4 marks 6 marks Chapterwise Questions from Previous Years Board Papers Ten Sample Papers for Practice 4 Solved 6 Unsolved CBSE Examination Paper 2014 Fully Solved Delhi and Outside Delhi

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