

SECTION A: ATTEMPT ALL QUESTIONS (55 marks)

- 1) State the cosine and sine laws which are used to solve practical problems involving triangles and angles. (4 marks)
- 2) In a geometric progression, insert 4 geometric terms that are between 2 and 6250. (4 marks)
- 3) Solve $e^{x+1} - 18e^{x-1} - 3 = 0$ (4 marks)
- 4) Find the differential equation of all straight lines passing through the origin. (2 marks)
- 5) Find the vector, parametric and symmetric equations of the line (l) passing through the point $A(3, -2, 4)$ with direction vector $\vec{u} = (2, 3, 5)$. (4 marks)
- 6) Find square roots of the complex number $3+4i$ (3 marks)
- 7) From the top of a cliff, 100 m above sea level, the angle of depression to a ship sailing past is 17 degrees. How far is the ship from the base of the cliff to the nearest meter? (3 marks)
- 8) Use Gauss - Jordan method of elimination to solve:
- $$\begin{cases} -3x - 2y + 4z = 9 \\ \quad \quad 3y - 2z = 5i \\ 4x - 3y + 2z = 7 \end{cases}$$
- (4 marks)
- 9) Write the 3 terms of the Maclaurin expansion of $f(x) = \ln(1+e^x)$ (3 marks)
- 10) Let A be a 2×2 matrix with $\text{tr}(A) = 6$ and $\det(A) = 5$. Find the eigenvalues of A . (3 marks)
- 11) Let $t: \mathbb{R}^3 \rightarrow \mathbb{R}^3$ be a linear transformation such that $t(1,0,0) = (2,4,-1)$, $t(0,1,0) = (1,3,-2)$ and $t(0,0,1) = (1,-2,2)$. Find $t(0,3,-1)$. (3 marks)
- 12) Verify if $T = E^2 \rightarrow E^2$ defined by $T((x_1, x_2)) = (x_1 + x_2, x_1 - x_2 + 1)$ is linear or not linear. (3 marks)
- 13) Suppose that you are observing the behavior of cell duplication in a laboratory. If, in one of the experiments, you started with 1,000,000 cells and the cell population decreased by ten percent every minute.
- a) Write an equation with base (0.9) to determine the number of cells after t minutes. (1 mark)
- b) Determine how long it would take the population to reach a size of 10 cells. (3 marks)

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1. Understanding the eBook Past Exam Answers Of M J 07
 - The Rise of Digital Reading Past Exam Answers Of M J 07
 - Advantages of eBooks Over Traditional Books
2. Identifying Past Exam Answers Of M J 07
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Past Exam Answers Of M J 07
 - User-Friendly Interface
4. Exploring eBook Recommendations from Past Exam Answers Of M J 07
 - Personalized Recommendations
 - Past Exam Answers Of M J 07 User Reviews and Ratings
 - Past Exam Answers Of M J 07 and Bestseller Lists
5. Accessing Past Exam Answers Of M J 07 Free and Paid eBooks
 - Past Exam Answers Of M J 07 Public Domain eBooks
 - Past Exam Answers Of M J 07 eBook Subscription Services
 - Past Exam Answers Of M J 07 Budget-Friendly Options

6. Navigating Past Exam Answers Of M J 07 eBook Formats
 - ePub, PDF, MOBI, and More
 - Past Exam Answers Of M J 07 Compatibility with Devices
 - Past Exam Answers Of M J 07 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Past Exam Answers Of M J 07
 - Highlighting and Note-Taking Past Exam Answers Of M J 07
 - Interactive Elements Past Exam Answers Of M J 07
8. Staying Engaged with Past Exam Answers Of M J 07
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Past Exam Answers Of M J 07
9. Balancing eBooks and Physical Books Past Exam Answers Of M J 07
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Past Exam Answers Of M J 07
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Past Exam Answers Of M J 07
 - Setting Reading Goals Past Exam Answers Of M J 07
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Past Exam Answers Of M J 07
 - Fact-Checking eBook Content of Past Exam Answers Of M J 07
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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