



Subject Name: Applied Mathematics Model Answer

Subject Code: **22224**

Important Instructions to Examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more importance (Not applicable for subject English and Communication Skills).
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Q. No.	Sub Q.N.	Answers	Marking Scheme
1.		Solve any FIVE of the following:	10
	a)	If $f(x) = x^3 - 5x^2 - 4x + 20$ show that $f(0) = -2f(3)$	02
	Ans	$f(x) = x^3 - 5x^2 - 4x + 20$	
		$\therefore f(0) = (0)^3 - 5(0)^2 - 4(0) + 20 = 20$	$\frac{1}{2}$
		$\therefore f(3) = (3)^3 - 5(3)^2 - 4(3) + 20$	$\frac{1}{2}$
		$= -10$	
		$\therefore -2f(3) = -2 \times -10 = 20 = f(0)$	1
	b)	State whether the function $f(x) = x^3 - 3x + \sin x + x \cos x$, is odd or even.	02
	Ans	$f(x) = x^3 - 3x + \sin x + x \cos x$	
		$\therefore f(-x) = (-x)^3 - 3(-x) + \sin(-x) + (-x) \cos(-x)$	$\frac{1}{2}$
		$= -x^3 + 3x - \sin x - x \cos x$	$\frac{1}{2}$
		$= -(x^3 - 3x + \sin x + x \cos x)$	$\frac{1}{2}$
		$= -f(x)$	
		$\therefore$ Given function is odd.	$\frac{1}{2}$
	c)	If $y = \sin x \cos 2x$, find $\frac{dy}{dx}$	02
	Ans	$y = \sin x \cos 2x$	

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Table of Contents Msbte Summer 2paper Solution Mostlyreadingya Com

1. Understanding the eBook Msbte Summer 2paper Solution Mostlyreadingya Com
 - The Rise of Digital Reading Msbte Summer 2paper Solution Mostlyreadingya Com
 - Advantages of eBooks Over Traditional Books
2. Identifying Msbte Summer 2paper Solution Mostlyreadingya Com
 - 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 Msbte Summer 2paper Solution Mostlyreadingya Com
 - User-Friendly Interface
4. Exploring eBook Recommendations from Msbte Summer 2paper Solution Mostlyreadingya Com
 - Personalized Recommendations
 - Msbte Summer 2paper Solution Mostlyreadingya Com User Reviews and Ratings
 - Msbte Summer 2paper Solution Mostlyreadingya Com and Bestseller Lists
5. Accessing Msbte Summer 2paper Solution Mostlyreadingya Com Free and Paid eBooks
 - Msbte Summer 2paper Solution Mostlyreadingya Com Public Domain eBooks
 - Msbte Summer 2paper Solution Mostlyreadingya Com eBook Subscription Services
 - Msbte Summer 2paper Solution Mostlyreadingya Com Budget-Friendly Options

6. Navigating Msbte Summer 2paper Solution Mostlyreadingya Com eBook Formats
 - ePub, PDF, MOBI, and More
 - Msbte Summer 2paper Solution Mostlyreadingya Com Compatibility with Devices
 - Msbte Summer 2paper Solution Mostlyreadingya Com Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Msbte Summer 2paper Solution Mostlyreadingya Com
 - Highlighting and Note-Taking Msbte Summer 2paper Solution Mostlyreadingya Com
 - Interactive Elements Msbte Summer 2paper Solution Mostlyreadingya Com
8. Staying Engaged with Msbte Summer 2paper Solution Mostlyreadingya Com
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Msbte Summer 2paper Solution Mostlyreadingya Com
9. Balancing eBooks and Physical Books Msbte Summer 2paper Solution Mostlyreadingya Com
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Msbte Summer 2paper Solution Mostlyreadingya Com
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Msbte Summer 2paper Solution Mostlyreadingya Com
 - Setting Reading Goals Msbte Summer 2paper Solution Mostlyreadingya Com
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Msbte Summer 2paper Solution Mostlyreadingya Com
 - Fact-Checking eBook Content of Msbte Summer 2paper Solution Mostlyreadingya Com
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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