



# MSBTE DIPLOMA



MSBTE DIPLOMA IN COMPUTER SCIENCE  
SEMESTER - I  
JANUARY - 2019

MSBTE DIPLOMA IN COMPUTER SCIENCE

Subject Name: Basic Mathematics

Model Answer

Subject Code: 22103

## Important Instructions to candidates

- The answer sheet to be submitted by any candidate without a receipt must be given to the model answer scheme.
- The model answer and the answer scheme by candidate may vary but the answers may not be away from understanding level of the candidate.
- The language of answer such as grammatical, spelling error should not be given more importance than applicable for relevant English and communication skills.
- While answering figures, candidate must give credit for partial responses indicated in the figure. The figure shown for candidate and model answer may vary. The candidate may give credit for the correct figure shown.
- Candidate may be given step mark for the correct solution. In some cases, the correct answer, which may vary and there may be some difference in the candidate's answer and model answer.
- In case of some questions credit may be given by judgment as part of evaluation of relevant answer based on candidate's understanding.
- The programming language papers, credit may be given in any other program based on equivalent concept.

Q. No.	Q. No.	Answer	Marking Scheme
1.	1.	<p>Find the value of <math>x</math> if <math>\log_2(x+1) = 2</math></p> <p>Ans: <math>\log_2(x+1) = 2</math></p> <p><math>x+1 = 2^2</math></p> <p><math>x+1 = 4</math></p> <p><math>x = 3</math></p>	10
2.	2.	<p>Find the area of triangle whose vertices are <math>(-1, 2), (3, -1)</math> and <math>(2, 3)</math></p> <p>Ans: Let <math>(x_1, y_1) = (-1, 2), (x_2, y_2) = (3, -1)</math> and <math>(x_3, y_3) = (2, 3)</math></p> <p>Area = <math>\frac{1}{2} \begin{vmatrix} x_1 &amp; y_1 &amp; 1 \\ x_2 &amp; y_2 &amp; 1 \\ x_3 &amp; y_3 &amp; 1 \end{vmatrix}</math></p> <p><math>= \frac{1}{2} \begin{vmatrix} -1 &amp; 2 &amp; 1 \\ 3 &amp; -1 &amp; 1 \\ 2 &amp; 3 &amp; 1 \end{vmatrix}</math></p> <p><math>= \frac{1}{2} \{ (-1)(-1)(1) + (2)(3)(1) + (3)(2)(1) \}</math></p> <p><math>= \frac{1}{2} \{ 1 + 6 + 6 \}</math></p> <p><math>= \frac{1}{2} \{ 13 \}</math></p> <p><math>= 6.5</math></p>	10
3.	3.	<p>Without using calculator find the value of <math>\cos^{-1}(\cos(\pi/3))</math></p> <p>Ans: <math>\cos^{-1}(\cos(\pi/3)) = \cos^{-1}(\cos(\pi/3))</math></p> <p><math>= \cos^{-1}(\cos(\pi/3))</math></p>	10

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## **Table of Contents Model Summer 10 Msbte Paper**

1. Understanding the eBook Model Summer 10 Msbte Paper
  - The Rise of Digital Reading Model Summer 10 Msbte Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Model Summer 10 Msbte Paper
  - 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 Model Summer 10 Msbte Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Model Summer 10 Msbte Paper
  - Personalized Recommendations
  - Model Summer 10 Msbte Paper User Reviews and Ratings
  - Model Summer 10 Msbte Paper and Bestseller Lists
5. Accessing Model Summer 10 Msbte Paper Free and Paid eBooks

- Model Summer 10 Msbte Paper Public Domain eBooks
- Model Summer 10 Msbte Paper eBook Subscription Services
- Model Summer 10 Msbte Paper Budget-Friendly Options
- 6. Navigating Model Summer 10 Msbte Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Model Summer 10 Msbte Paper Compatibility with Devices
  - Model Summer 10 Msbte Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Model Summer 10 Msbte Paper
  - Highlighting and Note-Taking Model Summer 10 Msbte Paper
  - Interactive Elements Model Summer 10 Msbte Paper
- 8. Staying Engaged with Model Summer 10 Msbte Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Model Summer 10 Msbte Paper
- 9. Balancing eBooks and Physical Books Model Summer 10 Msbte Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Model Summer 10 Msbte Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Model Summer 10 Msbte Paper
  - Setting Reading Goals Model Summer 10 Msbte Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Model Summer 10 Msbte Paper
  - Fact-Checking eBook Content of Model Summer 10 Msbte Paper
  - 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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