



MSBTE DIPLOMA



MSBTE DIPLOMA IN
COMMERCE
SEMESTER - I (2019-2020)

MODEL ANSWER PAPER

Subject Name: Basic Mathematics

Model Answer

Subject Code:

22103

Important Instructions to candidates

- The answer sheet to be submitted by any candidate within a specified time to give to the model answer scheme.
- The model answer and the answer scheme by candidate may vary but the answers may not be away the understanding level of the candidate.
- The language when such as grammatical, spelling error should not be given more importance than applicable for relevant English and communication skills.
- While answering figures, candidate may 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 respective figure shown.
- Candidate may be given step mark for the answers provided. In some cases, the answers provided, which may vary and there may be some difference in the candidate's answers 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>At the top of the page, the value of x is given as $x = 2$.</p> <p>Find the value of x if $\log_2(x+1) = 2$</p> <p>Ans: $\log_2(x+1) = 2$</p> $\therefore x+1 = 2^2$ $\therefore x+1 = 4$ $\therefore x = 3$	10
2.	2.	<p>Find the area of triangle whose vertices are $(-1, 2)$, $(3, -1)$ and $(2, 3)$.</p> <p>Ans: Let $(x_1, y_1) = (-1, 2)$, $(x_2, y_2) = (3, -1)$ and $(x_3, y_3) = (2, 3)$</p> $A = \frac{1}{2} \begin{vmatrix} x_1 & y_1 & 1 \\ x_2 & y_2 & 1 \\ x_3 & y_3 & 1 \end{vmatrix}$ $= \frac{1}{2} \begin{vmatrix} -1 & 2 & 1 \\ 3 & -1 & 1 \\ 2 & 3 & 1 \end{vmatrix}$ $= \frac{1}{2} \{ (-1)(-1)(1) + (2)(3)(1) + (3)(2)(1) \}$ $= \frac{1}{2} \{ 1 + 6 + 6 \}$ $= \frac{1}{2} \{ 13 \}$ $= 6.5$	10
3.	3.	<p>Without using calculator find the value of $\cos^{-1}(\cos(\pi/3))$</p> <p>Ans: $\cos^{-1}(\cos(\pi/3)) = \cos^{-1}(\cos(\pi/3))$</p> $= \cos^{-1}(\cos(\pi/3))$	10

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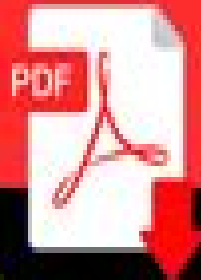
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