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Subject Name: Basic Mathematics Subject Code: **22103**

- Important Instructions to candidates**
- The duration allotted for this paper is 90 minutes. It is to be given to the students before the start of the examination.
 - The model answer and the answer written by candidates may vary for the answers may not be same for the corresponding part of the question.
 - The language given such as government, printing error should not be given more importance than applicable to relevant English and communication skills.
 - While answering the questions, candidates may give credit for partial responses indicated in the figure. The figure shows the number of marks awarded for each part. The candidate may give credit for any unattempted question.
 - Candidates may be given the credit for the unattempted questions. In some cases, the unattempted questions may not be the same for some differences in the candidate's answers and model answer.
 - In case of some questions credit may be given by judgment on part of examiner if relevant answer found in candidate's handwriting.
 - The programming language papers, credit may be given in any other program based on equivalent concept.

Sl. No.	Q.No.	Answer	Marking Scheme
1		Find the value of $\log_2 16$ of the	10
Ans		$\log_2 16 = \log_2 2^4$ $= 4 \log_2 2$ $= 4 \times 1$ $= 4$	10
2		Find the area of triangle whose vertices are $(-1, 2), (2, -1)$ and $(2, 2)$	10
Ans		$\text{Area} = \frac{1}{2} \left x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2) \right $ $= \frac{1}{2} \left (-1)(-1 - 2) + 2(2 - 2) + 2(2 - (-1)) \right $ $= \frac{1}{2} \left (-1)(-3) + 2(0) + 2(3) \right $ $= \frac{1}{2} \left 3 + 0 + 6 \right $ $= \frac{1}{2} \left 9 \right $ $= \frac{9}{2}$	10
3		Without using calculator find the value of $\cos^{-1}(\cos \frac{\pi}{6})$	10
Ans		$\cos^{-1}(\cos \frac{\pi}{6}) = \frac{\pi}{6}$ $= \frac{180^\circ}{6}$ $= 30^\circ$	10

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