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INDIAN SCHOOL MUSCAT SECOND PERIODIC TEST

MATHEMATICS

CLASS: XII

Sub. Code: 041

Time Allotted: 50min

19.09.2018

Max. Marks: 20

GENERAL INSTRUCTIONS:

- All questions are compulsory.
- Questions 1 to 4 carry TWO marks each.
- Questions 5 to 7 carry FOUR marks each.

1. Evaluate : $\int \frac{1-\cos x}{1+\cos x} dx$ (2)

2. Evaluate : $\int \frac{1}{x^2 - 6x + 13} dx$ (2)

3. Evaluate : $\int e^x \frac{(1-\sin x)}{(1-\cos x)} dx$ (2)

4. Evaluate the definite integral $\int_0^{\frac{\pi}{2}} \frac{1}{1 + \sqrt{\tan x}} dx$ (2)

5. Evaluate : $\int \frac{3x - 1}{(x - 1)(x - 2)(x - 3)} dx$ (4)

6. Evaluate : $\int (x \log x) dx$ (4)

7. Evaluate the following definite integral as limit of sum:- (4)

$$\int_1^3 (3x^2 - 5x) dx$$

End of the Question Paper