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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 : $\int \frac{dx}{4-2x-x^2}$ (2)

2. Evaluate : $\int_0^{\frac{\pi}{2}} \frac{(\sin x - \cos x)}{1 + \sin x \cos x} dx$ (2)

3. Evaluate : $\int x\sqrt{x+2} dx$ (2)

4. Evaluate : $\int \sin 3x \cos 2x dx$ (2)

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

6. Evaluate : $\int \frac{x \sin^{-1} x}{\sqrt{1-x^2}} dx$ (4)

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

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

End of the Question Paper