

# CC5 (Mathematical Physics II)

Internal Examination, Semester - III, F.M. - 10, Date: 27/01/2022, Time: 12:00 PM - 12:30 PM

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- 2020-2021
- 2019-2020
- 2018-2019

1.  $\Gamma(n+1)$  is equal to

- $(n+1)!$
- $(n-1)!$
- $n!$
- none of these

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2. The value of  $\Gamma(7/2)$  is

- $\pi/2$
- $\sqrt{\pi}$
- $\sqrt{\pi}/2$
- $15\sqrt{\pi}/8$

3.

$\int_{-1}^{+1} P_n(x) dx = 2$ , then n is

- 1
- 0
- 1
- none of these

4.

$J_{\frac{1}{2}}(x)$  is given by

- $\sqrt{2/\pi x} \sin(x)$
- $\sqrt{2/\pi x} \cos(x)$
- $\sqrt{x/2\pi} \sin(x)$
- none of these

5.

If  $J_{n+1}(x) = \frac{2}{x} J_n(x) - J_0(x)$  where  $J_n(x)$  is the Bessel function of first kind of order n, then the value of n is

- 0
- 2
- 1
- none of these



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