CLASS: BTECH/IMSC   SEMESTER: II
BRANCH: ALL/FT   SESSION: SP/2019

SUBJECT: MA107 MATHEMATICS - III

TIME: 2 HOURS   FULL MARKS: 25

INSTRUCTIONS:
1. The total marks of the questions are 25.
2. Candidates may attempt for all 25 marks.
3. Before attempting the question paper, be sure that you have got the correct question paper.
4. The missing data, if any, may be assumed suitably.

Q1 (a) Check whether functions $e^{7x}, xe^{7x}, x^2 e^{7x}, x^3 e^{7x}, e^{5x}$ are linearly independent or not. Justify your answer.   [2]

(b) Solve $(3x+1)^2 y'' + 3(3x+1)y' - 36y = 9x^2 + 6x + 5$.   [3]

Q2 Find a general solution of the differential equation   [5]

$$(\sin^2 x)y'' - (2\sin x \cos x)y' + (\cos^2 x + 1)y = \sin^3 x$$

given that the functions $y_1(x) = \sin(x)$ and $y_2(x) = x\sin(x)$ are linearly independent solutions to the corresponding homogeneous equation for $x > 0$.

Q3 (a) Write the general solution of $x^2 y'' + xy' + \left(5x^2 - \frac{4}{9}\right) = 0$ in terms of Bessel functions.   [1]

(b) Find the series solution of $xy'' + y' - 4y = 0$ about the point $x = 0$.   [4]

Q4 (a) If $A = J_{\frac{1}{2}}(x)$ and $B = J_{-\frac{1}{2}}(x)$ then show that $A^2 + B^2 = \dfrac{2}{\pi x}$ [2]

(b) Prove that   [3]

$$\int_{-1}^{1} P_m(x) P_n(x)\, dx = \begin{cases} 0 & \text{if } m \neq n \\ \dfrac{2}{2n+1} & \text{if } m = n \end{cases}$$

Q5 (a) Find the Fourier cosine series of $f(x) = x\sin x$ in $x \in (0, \pi)$.   [2]

(b) Using Fourier series in part (a) show that   [3]

$$\frac{1}{3} - \frac{1}{15} + \frac{1}{35} - \cdots = \frac{\pi - 2}{4}$$

::: 01/03/2019 ::::::M

Smathematics Question Paper Btech

Dr. T.K.V. Iyengar, Dr. M.V.S.S.N. PRASAD, S. RANGANATHAM & DR. B. KRISHNA GANDHI

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