

C 3556

(Pages : 2)

Name.....

Reg. No.....

FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2021

Mathematics

MTS 4C 04—MATHEMATICS—4

Time : Two Hours

Maximum : 60 Marks

Section A

Answer at least eight questions.  
Each question carries 3 marks.  
All questions can be attended.  
Overall Ceiling 24.

- ✓ 1. If  $x = C_1 \cos 4t + C_2 \sin 4t$  is a solution of  $x'' + 16x = 0$ ,  $x(\frac{\pi}{2}) = -2$ ,  $x'(\frac{\pi}{2}) = 1$ , then find  $C_1$  and  $C_2$ .
- ✓ 2. Write any two solutions of  $y'' = y'$  by inspection.
- ✓ 3. Solve  $\frac{dy}{dx} = \sin 5x$ .
- ✓ 4. Check whether  $\frac{dy}{dx} = \frac{xy^2 - \cos x \sin x}{y(1-x^2)}$  is an exact differential equation.
- ✓ 5. Write the integrating factor corresponding to the differential equation  $x \frac{dy}{dx} - 4y = x^6 e^x$ .
- ✓ 6. Show that  $y = 3e^{2x} + e^{-2x} - 3x$  is a unique solution of  $y' - 4y = 12x$ ,  $y(0) = 4$ ,  $y'(0) = 1$ .
- ✓ 7. Check whether  $y_1 = e^{3x}$  and  $y_2 = e^{-3x}$  are linearly independent solutions of  $y'' - 9y = 0$ .
- ✓ 8. If  $y_1 = x^2$  is a solution of  $x^2 y'' - 3xy' + 4y = 0$ , find a second solution.
9. Find the Laplace transform of  $e^{-3x}$ .
10. Find the inverse Laplace transform of  $\frac{6-2s}{s^2+4}$ .
- ✓ 11. Check whether  $f_1(x) = x$ ,  $f_2(x) = \cos 2x$  are orthogonal in  $[-\pi/2, \pi/2]$ .
- ✓ 12. Show that the partial differential equation  $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = 0$  is elliptic.  $\triangleleft \odot$

(8 × 3 = 24 marks)

Turn over

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**M Mark**



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