

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 $x'' + 16x = 0$, $x\left(\frac{\pi}{2}\right) = -2$, $x'\left(\frac{\pi}{2}\right) = 1$, 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 $\frac{xdy}{dx} - 4y = x^6 e^x$.
- ✓ 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^{-3t} .
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. < ∞

(8 × 3 = 24 marks)

Turn over

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**Arminius Albertus ARCHER, Gideon DE
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