

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

Question Paper Second Semester Bsc Maths 201

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Question Paper Second Semester Bsc Maths 201:

B.Sc. Sem.1 & 2 and 1 year Mathematics old questions papers PRAHSIDDH Educare,2024-05-28 Examination conducted by Bhavnagar University like B Sc Mathematics There is a set of old question papers of semester 1 and 2 as well as first year **Mathematics for Degree Students (For B.Sc. Second Year)** Mittal P.K.,2010-12 Bmh 201 A B Advanced Calculus Bmh 202 A B Differential Equations Bmh 203 A B Mechanics

The Top Books of the Year Question Paper Second Semester Bsc Maths 201 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Question Paper Second Semester Bsc Maths 201 : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Question Paper Second Semester Bsc Maths 201 : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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