(Annual-2016) 8 Time Allowed: Maximum Marks: 100

3 Hours

oject: A Course of Mathematics

Attempt Six questions in all by selecting Three questions from each section.

(a) Define continuous function in term of $(\delta - \varepsilon)$ form and discuss the continuity of f(x) = x - [x], $x \in R$, for integral

Define least upper bound and prove that the set $S=\{x:x^2<2\}$ has least upper bound $=\sqrt{2}$.

2(a) If u is a derivable function of v and v is a derivable function of x, then prove that $\frac{du}{dx} = \frac{du}{dv} \cdot \frac{dv}{dx}$.

(2.3(a) If f is differentiable on [a, b] and f' decreases strictly on [a, b], prove that $f'(b) < \frac{f(b) - f(a)}{b - a} < f'(a)$. How is

his result modified if f'increases strictly on [a,b]? Hence show that if $f(x) = \sin x$, $a = \frac{\pi}{3}$, $b = \frac{61\pi}{180}$ then

(b) Evaluate the following limit: $\lim_{x\to 1} ir \frac{(1-x^{m+1})(1-x^{m+2})(1-x^{m+3})...(1-x^{m+k})}{(1-x)(1-x^2)(1-x^3)...(1-x^k)}$. sin 61" - sin 60" < 0.0088.

Q.4(a) Describe the geometrical significance of the derivative of the radius vector with respect to the polar angle.

(b) Show that Pedal equation of the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ is $\frac{1}{a^2} = \frac{1}{a^2} + \frac{1}{b^2} - \frac{r^2}{a^2b^2}$. 8

Q.5(a) Show that the maximum value of $(\frac{1}{e})^t$ is $(e)^{1/e}$.

(b) If $y(x) = \{x + \sqrt{1 + x^2}\}^m$, prove that $(1 + x^2)y''(x) + xy'(x) - m^2y(x) = 0$ and $(1-x^2)y^{(n-2)}(x)+(2n+1)xy^{(n-1)}(x)+(n^2-m^2)y^{(n)}(x)=0$.

Q.6(a) Find the centre of curvature of the astroid $x^{2/3} + y^{2/3} = a^{2/3}$.

(b) The normal to a given curve is a tangent to its evolute.

Q.7(a) State and prove the fundamental theorem of the integral calculus.

(b) Prove that $\int_{-1}^{\infty} \frac{\ell n(1+x^2)}{1+x^2} dx = \pi \ell n^2$.

Q8(a) Define improper integral and determine the convergence or divergence of the following improper integral and evaluate. The convergent integral $\int e^{-x} x^5 dx$.

(b) Evaluate $\int \frac{x^2}{(1+x^2)^3} dx$. 8/2

Q.9(a) Evaluate $\int_{1+\cos x}^{x+\sin x} dx$. 4/1 4/4

(b) (i) If f(x) and g(x) are two antiderivatives of $\phi(x)$ then f(x) and g(x) must differ by a constant. (ii) Evaluate $\int_{-x}^{\sqrt{9x^2-1}} dx$.

Q.10(a) Show that the intrinsic equation of the semicubical parabola $ay^2 = x^3$, taking the cusp as the fixed point is

(b) Find the area of the region included between the cardiod $r=2a(1+\cos\theta)$ and the circle $r=6a\cos\theta$. Q.11(a) Assuming that the area of an ellipse with semi axes a and b is πab , compute the volume of the ellipsoid 8

 $\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$. (b) Find the Fourier series representing the function $f(x) = |x|, -\pi \le x \le \pi$.

8 8 Q.12(a) Determine whether the series $\sum_{n=1}^{\infty} \frac{\arctan n}{1+n^2}$ converges or diverges.

(b) Apply any appropriate test to determine the convergence or divergence of the series $\sum_{n=1}^{\infty} \frac{(2n+1)!}{n^2(n+1)!}.$ 8 (I-A16-1000)

O Level Maths Past Papers 058

R Bogdan

O Level Maths Past Papers 058:

The Top Books of the Year O Level Maths Past Papers 058 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of topselling books, exploring the engaging narratives that have captivated audiences this year. O Level Maths Past Papers 058: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best: Taylor Jenkins Reids "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. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. O Level Maths Past Papers 058: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 engaging 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 guiet 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 brilliant and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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