(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

(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. 4/4 (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  $\pi ab$ , 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)

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## **Table of Contents O Level Maths Past Papers**

- 1. Understanding the eBook O Level Maths Past Papers
  - The Rise of Digital Reading O Level Maths Past Papers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying O Level Maths Past Papers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an O Level Maths Past Papers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from O Level Maths Past Papers
  - Personalized Recommendations
  - O Level Maths Past Papers User Reviews and Ratings
  - O Level Maths Past Papers and Bestseller Lists
- 5. Accessing O Level Maths Past Papers Free and Paid eBooks
  - O Level Maths Past Papers Public Domain eBooks
  - O Level Maths Past Papers eBook Subscription Services
  - O Level Maths Past Papers Budget-Friendly Options
- 6. Navigating O Level Maths Past Papers eBook Formats

- ePub, PDF, MOBI, and More
- O Level Maths Past Papers Compatibility with Devices
- O Level Maths Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of O Level Maths Past Papers
  - Highlighting and Note-Taking O Level Maths Past Papers
  - Interactive Elements O Level Maths Past Papers
- 8. Staying Engaged with O Level Maths Past Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers O Level Maths Past Papers
- 9. Balancing eBooks and Physical Books O Level Maths Past Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection O Level Maths Past Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine O Level Maths Past Papers
  - Setting Reading Goals O Level Maths Past Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of O Level Maths Past Papers
  - Fact-Checking eBook Content of O Level Maths Past Papers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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