

Subject: A Course of Mathematics
Paper: A
Attempt Six questions in all by selecting Three questions from each section.

SECTION-I

(a) Define continuous function in term of $(\delta - \varepsilon)$ form and discuss the continuity of $f(x) = x - [x]$, $x \in \mathbb{R}$, for integral values of $\mathbb{R}$. 3+6/3

Define least upper bound and prove that the set $S = \{x : x^2 < 2\}$ has least upper bound $= \sqrt{2}$. 2+6/1

2(a) If u is a derivable function of v and v is a derivable function of x , then prove that $\frac{du}{dx} = \frac{du}{dv} \cdot \frac{dv}{dx}$. 9

3(a) If $y(x) = e^{ax} x^2$, find a formula for $y^{(n)}(x)$. 8/8

Q.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 this 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 $\sin 61^\circ - \sin 60^\circ < 0.0088$. 9

(b) Evaluate the following limit: $\lim_{x \rightarrow 1} \frac{(1-x^{n+1})(1-x^{n+2})(1-x^{n+3}) \dots (1-x^{n+k})}{(1-x)(1-x^2)(1-x^3) \dots (1-x^k)}$. 8

Q.4(a) Describe the geometrical significance of the derivative of the radius vector with respect to the polar angle. 9

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

Q.5(a) Show that the maximum value of $(\frac{1}{x})^x$ is $(e)^{1/e}$. 8

(b) If $y(x) = (x + \sqrt{1+x^2})^m$, prove that $(1+x^2)y''(x) + xy'(x) - m^2 y(x) = 0$ and $(1-x^2)y^{(n+2)}(x) + (2n+1)xy^{(n+1)}(x) + (n^2 - m^2)y^{(n)}(x) = 0$. 9/10

Q.6(a) Find the centre of curvature of the astroid $x^{2/3} + y^{2/3} = a^{2/3}$. 9

(b) The normal to a given curve is a tangent to its evolute. 8

SECTION-II

Q.7(a) State and prove the fundamental theorem of the integral calculus. 9

(b) Prove that $\int_0^{\pi} \frac{\ln(1+x^2)}{1+x^2} dx = \pi \ln 2$. 8

Q.8(a) Define improper integral and determine the convergence or divergence of the following improper integral and evaluate. The convergent integral $\int_0^{\infty} e^{-x} x^5 dx$. 2+7/9

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

Q.9(a) Evaluate $\int \frac{x + \sin x}{1 + \cos x} dx$. 8/2

(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. 4/1

(ii) Evaluate $\int \frac{\sqrt{9x^2-1}}{x} dx$. 4/4

Q.10(a) Show that the intrinsic equation of the semicubical parabola $ay^2 = x^3$, taking the cusp as the fixed point is $27S = 8a(\sec^2 \psi - 1)$. 8

(b) Find the area of the region included between the cardioid $r = 2a(1 + \cos \theta)$ and the circle $r = 6a \cos \theta$. 8

Q.11(a) Assuming that the area of an ellipse with semi axes a and b is πab , compute the volume of the ellipsoid $\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$. 8

(b) Find the Fourier series representing the function $f(x) = |x|$, $-\pi \leq x \leq \pi$. 8

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

(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

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Hussin A.Rothana



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the authors attempts to become a parliamentary candidate and his experiences as an Altrincham Borough Councillor Cupids arrow at Timperley Hockey Club leads to marriage to Hilary a new home tackling Wainwrights Fells in the Lake District family holidays in Anglesey and Burnham on Sea boat building school trips and entertaining nephews and nieces The author includes intriguing anecdotes of his work at Stockport and Manchester and describes the management of a direct labour force during a period of massive sewer collapses the taming of recalcitrant developers and contractors the resurfacing the citys highways and the exploration the vast subterranean network of Victorian sewers which lie below the citys streets The story concludes with his success in becoming the Assistant City Engineer Construction for Swansea City Council *Oswaal One For All Olympiad Previous Years' Solved Papers Class 6 (Set of 6 Books) Maths, English, Science, Reasoning, Cyber & General Knowledge (For 2024-25 Exam)* ,2024-04-16 Description of the Product Crisp Revision with Concept wise Revision Notes Mind Maps 100% Exam Readiness with Previous Years Questions from all leading Olympiads like IMO NSO ISO Hindustan Olympiad Valuable Exam Insights with 3 Levels of Questions Level1 2 Achievers Concept Clarity with 500 Concepts 50 Concepts Videos Extensive Practice with Level 1 Level 2 Practice Papers *Oswaal One For All Olympiad Class 7 Mathematics | Previous Years Solved Papers | For 2024-25 Exam* Oswaal Editorial Board,2024-03-27 Description of the Product Crisp Revision with Concept wise Revision Notes Mind Maps 100% Exam Readiness with Previous Years Questions from all leading Olympiads like IMO NSO ISO Hindustan Olympiad Valuable Exam Insights with 3 Levels of Questions Level1 2 Achievers Concept Clarity with 500 Concepts 50 Concepts Videos Extensive Practice with Level 1 Level 2 Practice Papers Mr Chips Comes Home Mike Gerrard,Bryan Skinner,1984 **Major Trends in Theoretical and Applied Linguistics** 3 Nikolaos Lavidas,Thomaï Alexiou,Areti Maria Sougari,2014-02-10 In the three volumes of Major Trends in Theoretical and Applied Linguistics the editors guide the reader through a well selected compendium of works presenting a fresh look at contemporary linguistics Specialists will find chapters that contribute to their fields of interest and the three volume collection will provide useful reading for anyone interested in linguistics The first volume explores theoretical issues dealing with phonetics phonology and syntax semantics morphology Volume two is organized into three main sections that examine interdisciplinary linguistics discourse analysis gender and lexicography language acquisition and language disorders Finally volume three focuses on applied linguistics both language teaching learning and education

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