

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  $(1-x^2)y^{(n+2)}(x) + (2n+1)xy^{(n+1)}(x) + (n^2 - m^2)y^{(n)}(x) = 0$ . 9/9

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  $\pi ab$ , 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

# O Level Maths Past Papers

**Chris Taylor**



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sep 9 2022 the marché aux puces de saint ouen a sprawling network of warehouses stands and alleyways on the northern edge of paris is the largest antiques and second hand market in the world and the fourth most visited attraction in france there isn t enough time in one day a weekend or even potentially a lifetime to explore every corner of its

*visite insolite saut de puces à saint ouen fever* - Jul 05 2022

ce que l on te propose un ticket pour une visite guidée d une durée de 2h du célèbre marché aux puces de saint ouen pour 1 personne ce qui t attend chineur invétéré amateur de beaux objets fou de photographie ou curieux de belles rencontres cette visite est pour toi

**le marché aux puces de paris saint ouen que voir que faire** - May 03 2022

apr 26 2023 situées au nord de paris les puces de saint ouen sont le plus grand marché aux puces d europe avec plus de 3 000 stands répartis sur 7 hectares vous pouvez y accéder en métro en descendant à la station porte de clignancourt ligne

**les puces de paris saint ouen paris tourism** - Jan 11 2023

les puces de saint ouen sont un labyrinthe de rues et de ruelles qui regorgent de magasins de toutes sortes vous pouvez trouver des antiquités des meubles des vêtements des bijoux des livres des disques des instruments de musique des jouets et bien plus encore

visite guidée les puces de paris saint ouen saint ouen - Nov 09 2022

aug 5 2023 datant de 1885 les puces de saint ouen sont composées de 11 marchés avec plus 2000 stands et boutiques répartis sur 7 hectares vous y trouverez des antiquités classiques ou des marchandises haut de gamme restaurées telles que mobilier tableaux bronzes objets d art ou bien tapisseries miroirs luminaires vaisselle

**la fête des puces de saint ouen 2023 sortiraparis com** - Feb 12 2023

les puces de saint ouen font la fête du 5 au 9 octobre 2023 cette année le thème la nature dans les arts décoratifs ramène une vague déco colorée et fantaisie à travers les étals du

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**promenade aux puces de saint ouen paris zigzag** - Aug 06 2022

la chope des puces 122 rue des rosiers 93400 saint ouen ouvert du vendredi au lundi 9h 16h en semaine 9h 19h le week end  
un petit creux les accras d antilles grillade ce restaurant antillais sert parmi plusieurs spécialités de la région de délicieux  
accras de morue après une après midi à parcourir les puces on aurait presque