bject: A Course of Mathematics
per: A
te: 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 $f(x) = x - [x]$, $x \in R$, for integral   3+6/3
ues of R.   2+6/1

. Define least upper bound and prove that the set $S = \{x : x^2 < 2\}$ has least upper bound $= \sqrt{2}$.   9

2.(a) If u is a derivable function of v and v is a derivable function of x, then prove that $\dfrac{du}{dx} = \dfrac{du}{dv} \cdot \dfrac{dv}{dx}$.   8/8

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

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

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

$\sin 61 - \sin 60 < 0.0088$.   9

b) Evaluate the following limit: $\displaystyle\lim_{x \to 1} \dfrac{(1 - x^{n+1})(1 - x^{n+2})(1 - x^{n+3})\ldots(1 - x^{n+4})}{(1 - x)(1 - x^2)(1 - x^3)\ldots(1 - x^4)}$.   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 $\dfrac{x^2}{a^2} + \dfrac{y^2}{b^2} = 1$ is $\dfrac{1}{p^2} = \dfrac{1}{a^2} + \dfrac{1}{b^2} - \dfrac{r^2}{a^2 b^2}$.   8

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

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

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

Q.6(a) Find the centre of curvature of the astroid $x^{2/3} + y^{2/3} = a^{2/3}$.   8

(b) The normal to a given curve is a tangent to its evolute.   9

SECTION-II

Q.7(a) State and prove the fundamental theorem of the integral calculus.   8

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

Q.8(a) Define impoper integral and determine the convergence or divergence of the following improper integral and   2+7/9

evaluate. The convergent integral $\displaystyle\int_0^\infty e^{-x} x^5 dx$.   8/8

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

Q.9(a) Evaluate $\displaystyle\int \dfrac{x + \sin x}{1 + \cos x} dx$.   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 $\displaystyle\int \dfrac{\sqrt{9x^2 - 1}}{x} dx$.

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

$27S = 8a(\sec^3 \psi - 1)$.

(b) Find the area of the region included between the cardiod $r = 2a(1 + \cos \theta)$ 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

$\dfrac{x^2}{a^2} + \dfrac{y^2}{b^2} + \dfrac{z^2}{c^2} = 1$.   8

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

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

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

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The National Bibliography of Nigeria ,1988 **Mathematical Tasks in Classrooms Around the World** ,2010-01-01 Mathematical tasks have long been recognized as crucial mediators between mathematical content and the mathematics learner For many people the mathematics classroom is defined by the type of tasks one finds there and this is appropriate Mathematical tasks are the embodiment of the curricular pretext that brings each particular set of individuals together in every mathematics classroom In other contexts individuals come together to engage in musical performances or dramatic performances The performances of the mathematics classroom are largely the performance of mathematical tasks and if we are to understand and facilitate the learning that is the purpose of such settings then we must understand the nature of the performances that we find there The classroom performance of a task is ultimately a unique synthesis of task teacher students and situation Of particular interest are differences in the function of mathematically similar tasks when employed by different teachers in different classrooms for different instructional purposes with different students By making comparison possible between the classroom use of mathematical tasks in different classrooms around the world the analyses reported in this book reveal the profound differences in how each teacher utilises mathematical tasks in partnership with their students to create a distinctive form of mathematical activity The Learner s Perspective Study aims to juxtapose the

observable practices of the classroom and the meanings attributed to those practices by classroom participants The LPS research design documents sequences of at least ten lessons using three video cameras supplemented by the reconstructive accounts of classroom participants obtained in post lesson video stimulated interviews and by test and questionnaire data and copies of student written material In each participating country data generation focuses on the classrooms of three teachers identified by the local mathematics education community as competent and situated in demographically different school communities within the one major city The large body of complex data supports both the characterisation of practice in the classrooms of competent teachers and the development of theory **Chinese Students in UK Further Education** Rosemary A. Reynolds,2017-12-15 Chinese students in the UK have been increasing in number for many years yet competition from other Western educators and increasing investment in China s own education system has led to concern that UK institutions may soon see a decline in their market share Dr Reynolds addresses this issue in Chinese Students in UK Further Education by attempting to understand students experiences from their perspective Beginning with an exploration of why these students choose to come and study in the UK and why they are coming at younger ages the book goes on to discuss topics such as risk technology and diversity in order to understand which factors have the greatest influence on where they choose to study and whether they choose to remain at an institution Drawing on data from two different education institutions providers of GCSE A level programmes for students aged 16 18 years Dr Reynolds attempts to understand what these students experience during their studies how they manage new social relationships and whether upon course completion they achieved the results they desired at the outset Moreover the book aims to ascertain whether the students feel in hindsight that the decision to risk investing in UK further education was right and what they might communicate about UK study to contacts in China and elsewhere The book examines what further education institutions do well and where they might improve to help develop Chinese students educational experiences As such it will be essential reading for academics researchers and postgraduates in the fields of further education sociology of education international and intercultural education and mobility studies **CTET Paper-II Exam : Science & Mathematics | 7 Mock Tests + 3 Previous Year Papers (1500+ Solved Questions)** EduGorilla Prep Experts,2022-09-15 Best Selling Book in English Edition for CTET Paper II Science Mathematics Exam with objective type questions as per the latest syllabus given by the CBSE Compare your performance with other students using Smart Answer Sheets in EduGorilla s CTET Paper II Science Mathematics Exam Practice Kit CTET Paper II Science Mathematics Exam Preparation Kit comes with 7 Full length Mock Tests 3 Previous Year Papers with the best quality content Increase your chances of selection by 16X CTET Paper II Science Mathematics Exam Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts *O-level Mathematics Complete Guide (Yellowreef)* Thomas Bond,Chris Hughes,2013-11-28 an expert and complete guide to lead one through abstract knowledge and wisdom enable

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