

NOTE: Attempt FIVE Questions in All. THREE Questions from Section "A" and TWO Questions from Section "B". Calculator is allowed.

SECTION - A

- Q No. 1:**
- (a) Evaluate $\lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n$
where n tends to infinity through positive integral values only.
- (b) State and prove Leibniz theorem. Find n th derivative of $e^x \ln x$
(20 Marks)

- Q No. 2:**
- a) Find (i) $\lim_{x \rightarrow 0} (\cot x)^{x \sin 2x}$
(ii) $\lim_{x \rightarrow \frac{\pi}{2}} \left(\frac{\tan x}{\tan 3x}\right)$
- b) Evaluate (i) $\int \frac{dx}{\sqrt{x-x^3}}$ (ii) $\int_{-3}^3 |x| dx$

(20 Marks)

- Q No. 3:**
- a) Evaluate $\int_0^1 \int_0^x (x^2 + 4xy) dy dx$
- b) Evaluate $\iiint_s 3(x^2 + y^2 + z^2) dv$

Where s is bounded by the planes $x = 1, x = 3, y = -1, y = 1, z = 2$ and $z = 4$.

(20 Marks)

- Q No. 4:** Solve the initial value problems:-

- a) $(x^2 + 3y^2)dx - 2xy dy = 0, \quad y(2) = 6$
- b) $(x^2 + 1) \frac{dy}{dx} + 4xy = x, \quad y(2) = 1$

(20 Marks)

- Q No. 5:**
- a) A body of mass 2 slugs is dropped with no initial velocity and encounters an air resistance that is proportional to the square of its velocity. Find an expression for the velocity of the body at any time.

- (b) Approximate $\int_0^2 \frac{1}{\sqrt{x^2+1}} dx$ with $n = 4$

By using rules (i) Trapezoidal (ii) Simpson's

(20 Marks)

P.T.O

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Bulletin University of Illinois (Urbana-Champaign campus). Bureau of Educational Research, Walter Scott Monroe, 1923

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Bulletin, 1922

Publishers' circular and booksellers' record, 1879

The Publishers' Circular and General Record of British and Foreign Literature, 1879

AQA Mathematics Bob Hartman, 2006 Written by examiners and practising teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and a revision guide

Psychological Tests for Use with Blind Adults in Vocational Rehabilitation Salvatore G. DiMichael, 1947

Some Problems in the Teaching of Mathematics Daniel W. Werremeyer, 1913

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Cambridge, 2007-10-04 This is the latest updated edition of the University of Cambridge's official statutes and Ordinances

World Yearbook of Education 1969 Joseph A. Lauwerys, David G. Scanlon, 2013-10-28 First Published in 2005 Almost everywhere policies designed to broaden access to education and to promote equality of opportunity are now pursued In consequence the importance of examinations grows since success in them determines entry to higher education and thus to professional posts They are therefore a major instrument of social mobility and promotion which affects social structure by applying criteria of selection nearly always accepted unconsciously and uncritically The aim of this text in selecting Examinations as the theme of the 1969 WORLD YEAR BOOK was to present a comparative analysis of the way in which examinations are devised administered and assessed to find out why we are examining and to look at the ways in which we examine to see if these are efficient relevant and reliable

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