DIRECTORATE OF DISTANCE AND CONTINUING EDUCATION INTERNAL ASSIGNMENT FOR MAY 2024 EXAMINAITONS

M. Sc Mathematics – Second Semester Advanced Algebra

Sub-Code: SMAM21

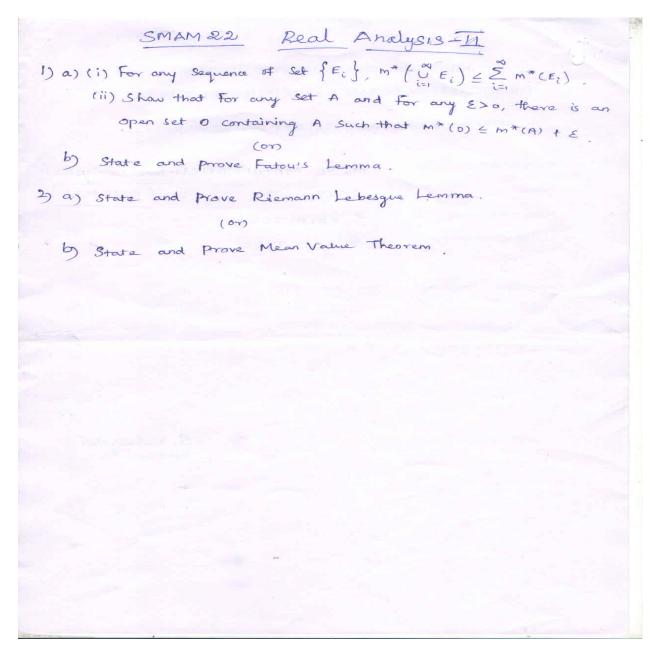
SMAM21 Advanced Algebra. 1) a) prove that the number e is trancendental. (or) b) Let fax & F(x) be of degree n >1. Then there is an extension E of F of degree atmost n! in which Fex) has n routs. If K is a finite extension of F. 27 01 then G(K, F) is a finite and its order, O (R(K, F)) satisfies O(G(KIF)) E[K:F] (or) b) The general polynomial of degree nys is not solvable by radicals.

DIRECTORATE OF DISTANCE AND CONTINUING EDUCATION INTERNAL ASSIGNMENT FOR MAY 2024 EXAMINAITONS

M. Sc Mathematics – Second Semester

Real Analysis-II

Sub-Code: SMAM22

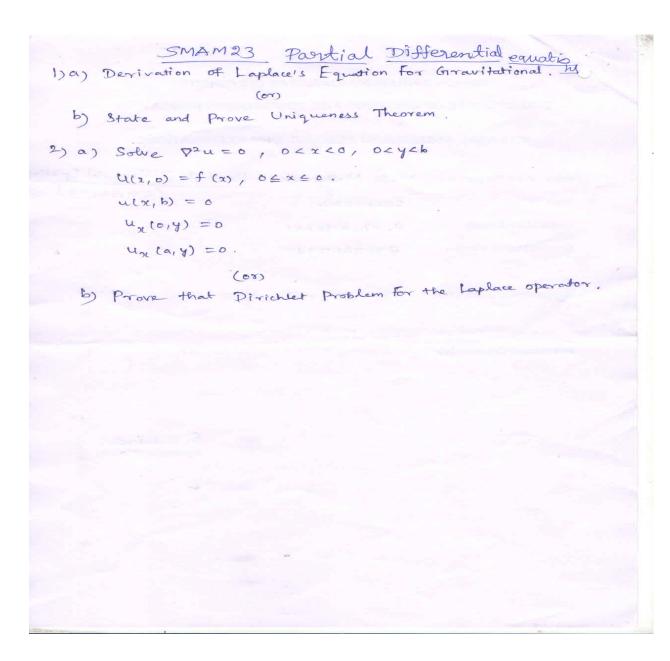


DIRECTORATE OF DISTANCE AND CONTINUING EDUCATION INTERNAL ASSIGNMENT FOR MAY 2024 EXAMINAITONS

M. Sc Mathematics – Second Semester

Partial Differential Equations

Sub-Code: SMAM23



DIRECTORATE OF DISTANCE AND CONTINUING EDUCATION INTERNAL ASSIGNMENT FOR MAY 2024 EXAMINAITONS

M. Sc Mathematics – Second Semester

Mathematical Statistics

Sub code: SMAE21

SMAE21 Mathematical statistics,

1) a) Lot the random Variable X and Y have the soint p.d.f $f(x,y) = \int x+y$, o(2x), o(2y)Find the correlation co-efficient of X and X. b) Compute the measures of stowness and Kurtosis of a Gramma Distribution. 27 a) Find the variance of Chi-Square distribution (or) b) State and prive the Box and Muller Evansformation.

DIRECTORATE OF DISTANCE AND CONTINUING EDUCATION INTERNAL ASSIGNMENT FOR MAY 2024 EXAMINAITONS

M. Sc Mathematics – Second Semester Operations Research

Sub-Code: SMAE22

SMAE 22 operations Research.
1) a) Using North-West Corner Rule Sind a
basic feasible solution to the following
transportation problem.
Deskindion
Source Fi 8 10 12 900 Supply (origin) Fe 12 13 12 1000 (availability) F3 14 10 11 1200 b) 1200 1000 900 3100 Requirements
b) Explain about Minimal Spanning tree Algorithm.
2) a) Find the Optimum integer solution to the following LPP. Sollowing LPP. 2 = x1 + 4x2, Subject to the constraint ts
$2x_1 + 4x_2 \le 7, 5x_1 + 5x_2 \ge 5$ where $x_1, x_2 \ge 0$ and are integers.
b) Explain about the basic elements of one wing model.

DIRECTORATE OF DISTANCE AND CONTINUING EDUCATION INTERNAL ASSIGNMENT FOR MAY 2024 EXAMINAITONS

M. Sc Mathematics – Second Semester

Mathematical Documentation using LaTex

Sub-Code: SMAS21

