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24-FS-41

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION
JUNE - JULY 2024**

FORENSIC SCIENCE

Paper - I

[Forensic Physics]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Define Fibre. Write its types and structure ? Explain forensically chemically and physical analysis of fibre sample ? Write one famous case study which show the fibre importance. (15 Marks)

OR

Write the composition of cement and name of adulterant which found in cement ? Explain forensic analysis (chemical and instrumental) of brick mortar and concrete ? (15 Marks)

Q. 2 Which type of tool used for cutting / alteration of wire and cable. Discuss tool marks which found on wire and cable. Also explain forensic examination of wire and cable. (15 Marks)

OR

Write long note on "Restoration of erased and obliterated marks". (15 Marks)

Q. 3 Explain forensic evaluation of speaker identification and tape authentication. (15 Marks)

OR

Discuss problems which occurs in speaker identification of tape authentication. (15 Marks)

Q. 4 Define photo and image. Explain five differences between moving photography and still photography. Also discuss photogrammetry and its types. (15 Marks)

OR

Discuss Sensor and digital imaging technique and also explain legal issue related to photograph and digital image ? (15 Marks)

P.T.O.

Q. 5 Write long note on "Bay's theorem and its importance".

(15 Marks)

OR

Discuss following test -

i) F-test

(05 Marks)

ii) Pearson square test.

(05 Marks)

iii) Chi-square test.

(05 Marks)

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