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Name.....

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, APRIL 2026
(CBCSS)

Forensic Science

FSC 4E 29—EXPLOSIVE ANALYSIS AND POST BLAST INVESTIGATION

(2020 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

Section A

*Answer any **four** questions.*
Each question carries 2 weightage.

1. Expand the following :
 - (a) ANFO ; and
 - (b) RDX.
2. What are primary explosives ?
3. Give any *two* cation tests used in the analysis of explosive residues.
4. Enlist the components of an explosive train.
5. What is a Detonator ?
6. Give the significance of Acetone extract in explosive residue analysis.
7. What is j-acid test ?

(4 × 2 = 8 weightage)

Section B

*Answer any **four** questions.*
Each question carries 3 weightage.

8. Write a note on temperature of chemical explosives.
9. What are physical explosives ?
10. What are crude bombs ?

Turn over

11. Write a note on reconstruction of events, based on explosive residues.
12. Give the colour tests for TNT.
13. What is oxygen balance ?
14. Give a brief on explosion process.

(4 × 3 = 12 weightage)

Section C

*Answer any **two** questions.*

Each question carries 5 weightage.

15. In case of an explosion, as investigating officer, how will you proceed with the Scene investigation ? Add a note on Post blast residue collection.
16. Discuss the systematic examination of explosive residues in a forensic laboratory.
17. Elaborate on effects of explosion.
18. Differentiate Low and High Explosives.

(2 × 5 = 10 weightage)