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MME-012

**POST GRADUATE CERTIFICATE IN
MEDICAL MANAGEMENT OF
CBRNE DISASTERS (PGCMDM)**

Term-End Examination

December, 2025

**MME-012 : HEALTH EFFECTS AND MEDICAL
MANAGEMENT OF CBRNE AGENTS**

Time : 3 Hours

Maximum Marks : 70

Note : *There are three Parts–Part A, Part B and
Part C. All Parts are compulsory. Answer
questions in the sequence asked.*

Part–A

- I. Answer any *one* of the following questions in
300-400 words : 12
1. Reception and radiological triage after a
radiological incident.
 2. Acute Radiation Syndrome.

II. Write notes on any *two* of the following in
70-100 words each : 2×6=12

1. Long-term effects of radiation exposure.
2. Radioactive contamination.
3. Radionuclear detectors.

Part-B

I. Answer any *one* of the following questions in
300-400 words : 12

1. What are the onsite and offsite methods of detection and analysis of chemical agents used in a chemical attack ?
2. Toxic pulmonary edema due to exposure to chemical agents, its diagnosis and treatment.

II. Write notes on any *two* of the following in
70-100 words each : 2×6=12

1. Toxic effects of cyanide.
2. Adverse effects on nervous system due to exposure to industrial chemicals.
3. Phosgene oxime.

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Part-C

I. Answer any *one* of the following questions in
300-400 words : 12

1. How will you recognize a viral bioterror threat ?
2. Clinical presentation of Anthrax :
Cutaneous and inhalational : explain
and describe.

II. Write notes on any *two* of the following in
70-100 words each : 2×5=10

1. Plant and animal pathogen agro-
terrorism.
2. Mycotoxins.
3. Ricin.

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