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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*

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

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**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.

**B-1665/MME-012**

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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.

**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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