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MME-012

**POST GRADUATE CERTIFICATE IN
MEDICAL MANAGEMENT OF
CBRNE DISASTERS (PGCMDM)
Term-End Examination**

June, 2026

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

Time : 3 Hours

Maximum Marks : 70

Note : (i) *There are three parts A, B and C.*
(ii) *All parts are compulsory.*

Part—A

Note : *Answer any **one** of the following
questions in **700** words.* 12

1. What are the acute and late effects of
Radiation ?

2. What is Chronic Radiation Syndrome (CRS) ? What are the clinical symptoms and how is it different from Acute Radiation Syndrome (ARS) ?

Note : Write short notes on any **two** of the following in **400** words each. 2×6=12

3. What is the purpose of Individual Protective Equipment (IPE) of the Quick Response Team (QRT) and QRMT ?
4. Radio-protectors : mechanisms and uses.
5. External decontamination of radio-active dust.

Part—B

Note : Answer any **one** of the following questions in **700** words. 12

1. How do nerve gas agents act and why are they so lethal ?
2. What are the clinical features of exposure to Sulphur mustard ?

Note : Write short note on any **two** of the following in **300** words each. 2×5=10

3. What is Phosgene ? Discuss its clinical manifestations.
4. Riot Control Agents and their mechanism of action.
5. How to decontaminate chemical warfare waste ?

Part—C

Note : Answer any **one** of the following questions in **700** words. 12

1. What is a toxin ? Write a note on use of toxin as a bioweapon.
2. Protection of healthcare workers in the event of bioterrorism.

Note : Write short notes on any **two** of the following in **400** words each. 2×6=12

3. Clinical features of Anthrax.
4. Laboratory Response Network for diagnosis of causative agent in bioterror event.
5. Triage in handling cases who are victim of a bioterror event.

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