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MME-012

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

Term-End Examination

June, 2025

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

Time : 3 Hours

Maximum Marks : 70

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

Part–A

1. Describe Acute Radiation Syndrome.

(300-400 words) 12

2. Write notes on any *two* of the following in about **70-100** words each : $2 \times 6 = 12$
- (a) Radiation Biodosimetry
 - (b) Stochastic and non-stochastic effects of radiation
 - (c) Radioactive dispersal device

Part-B

1. Explain the factors influencing toxic effects of various chemicals. **(300-400 words)** 12
2. Write notes on any *two* of the following in about **70-100** words each : $2 \times 6 = 12$
- (a) Mechanism of action of nerve gases and their clinical manifestations
 - (b) Lewisite shock
 - (c) Clinical effect of exposure to chlorine gas

Part-C

1. Anthrax as a bioweapon : reasons why it is suitable as bioweapon and its diagnostic tests. (300-400 words) 12
2. Write notes on any *two* of the following in about **70-100** words each : 2×5=10
 - (a) Ricin toxin as a bioweapon
 - (b) Botulinum neurotoxin
 - (c) Clinical findings in skin in small pox

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