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MME-011

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

Term-End Examination

June, 2025

MME-011 : BASICS OF CBRNE

Time : 3 Hours

Maximum Marks : 70

Note : *All Parts are compulsory.*

Part—A

1. Answer in **300-400** words :

Describe bioterrorism agents. Discuss the classification of bioterrorism agents in detail.

4+8

2. Answer any *two* of the following in about

70-100 words each :

6×2=12

(i) Tularemia : Clinical specimen collected and diagnostic methods used.

(ii) Describe Epidemiological Triad and its components.

(iii) Biological Weapons Convention.

Part—B

1. Answer the following question in about

300-400 words :

Discuss about the biological effects of radiation on human beings.

12

2. Answer any *two* questions in about

70-100 words each :

6×2=12

(i) ALARA

(ii) Pre-hospital preparedness in case of radiological disaster.

(iii) Define the following terms :

- (a) Activity
- (b) Equivalent Dose
- (c) Effective Dose

Part—C

1. Answer the following question in about **300-400** words : 10

Discuss the management of explosion victims in the hospital set-up.

2. Answer any *two* questions in about **70-100** words each : 6×2=12

- (i) Case study on Bhopal gas tragedy.
- (ii) Classify various types of explosives and give examples.
- (iii) Give *two* examples of each CW agents :

- (a) Nerve agent
- (b) Blister agent
- (c) Blood agent
- (d) Choking agent

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