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MME-011

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

Term-End Examination

December, 2025

MME-011 : BASICS OF CBRNE

Time : 3 Hours

Maximum Marks : 70

Note : All Parts are compulsory.

Part—A

1. Discuss in detail the following : 2×6=12

- (i) Chernobyl nuclear disaster
- (ii) Fukushima disaster

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

- (i) Types of radiation detector
- (ii) Radiation transport index
- (iii) Decontamination on site in radiological disasters

Part—B

1. Answer the following question in **300-400** words : 12

Describe in detail the diagnostic tools available for detection of chemical warfare agents.

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

- (i) Triage, first aid and referral to hospital in blast injuries
- (ii) PPE for chemical agents
- (iii) Tokyo Subway Sarin attack

Part—C

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

Describe in detail the standard steps of an outbreak investigation.

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

(i) Describe smallpox and its diagnostic methods.

(ii) Triple layer packaging system for sample collection of a biological agent.

(iii) Risk ratio and odds ratio and their significance in case control studies.

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