No. of Printed Pages: 3 MME-011

POST GRADUATE CERTIFICATE IN MEDICAL MANAGEMENT OF CBRNE (PGCMDM)

Term-End Examination June, 2024

MME-011: BASICS OF CBRNE DISASTERS

Time: 3 Hours Maximum Marks: 70

Note: There are three Parts A, B and C. All Parts are compulsory.

PART-A

- 1. Answer any *one* of the two in **300–400** words:
 - (a) What are the action points taken by the rescue team in the event of a radiological dispersal device explosin? Elucidate the same using a schematic flowchart depicting the incident management procedure.

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- (b) What are the two phases of a nuclear disaster? Discuss in detail about the steps that are taken in the phase 2 for Health Monitoring of the affected population.
- 2. Write short notes in **70-100** words each on any **two** of the following:
 - (a) What is Effective dose (E)?
 - (b) Counting systems used during Nuclear and Radiological Attacks.
 - (c) Acute radiation syndrome. $2\times6=12$

PART-B

- 3. Answer any *one* of the following in **300–400** words:
 - (a) Enumerate various biagnostic methods/tools used for detection of Biological Agents in a Bio events and discuss the issues and challenges involved in detection of a biological attack.
 - (b) What are category 'B' agents of bioterrorism and enlist cat B agents. Discuss in detail about any two of the cat 'B' agents. 6+6
- 4. Write short notes in **70-100** words each on any **two** of the following:

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(a) Relevance of Bio-terrorism in India

(b) Standard steps of out break investigation

(c) Biological weapon convention 2×6=12

PART-C

- 5. Answer any one of the following in **300-400** words:
 - (a) What are hazardouschemicals? List some of the HAZCHEM events occured in past.Elaborate in detail about Tokyo sub way chemical

Elaborate in detail about Tokyo sub way chemical attack. 6+6

- (b) Enumerate Routes of entry of Toxins into human system and write in detail about 8 types of chemical toxins. 6+6
- 6. Write short notes in **70-100** words each on any *two* of the following:
 - (a) Blister agents
 - (b) Post Blast injury prophylaxis for blood borne pathogens
 - (c) OPCW official profficiency test $2\times 5=10$
