

No. of Printed Pages : 4

**MME-012**

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

**Term-End Examination**

**June, 2024**

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

*Time : 3 Hours*

*Maximum Marks : 70*

**Note :-** There are 3 Parts A, B, and C. All Parts are compulsory.

**PART-A**

**Note :-** Answer any *one* of the following questions in about **300-400** words. 12

1. What will be your approach to investigate an unknown Radiological and Nuclear attack and Macro management of the Emergency.

**P.T.O.**

2. Enumerate and discuss various kinds of injuries likely to be encountered during a Nuclear event.

Elaborate on Methods of Radiological Triage. 6+6

**Note :-** Write short notes on any *two* of the following questions in about **70-100** words each.

6×2=12

3. Describe blast injuries.
4. Radioactive waster disposal.
5. Radiation safety concept for health care worker with reference to ALARA.

**PART-B**

**Note :-** Answer any *one* of the following questions in about **300-400** words each. 12

6. Describe the signs, symptoms and mechanism of action of nerve agents. Describe treatment of nerve agent poisoning.

[ 3 ]

MME-012

7. What is toxic pulmonary edema ? Describe the diagnosis and principles of management of toxic pulmonary edema.

**Note :-** Write short notes on any *two* of the following questions in about **70-100** words each.

2×5=10

8. What is Post Traumatic Stress Disorder (PTSD) ? 5
9. Describe the medical evacuation before and after the Fukushima Daiichi Nuclear Power Plant Accident. 5
10. Write a short note on Mustard gas toxicity.

### PART-C

**Note :-** Answer any *one* of the following in about **300-400** words. 12

11. Write about small pox infection and why it continues to be a threat to human population inspite of the infection as human disease being eradicated ?
12. Why is Anthrax suitable as bio weapon ? How does Anthrax present ?

**P.T.O.**

[ 4 ]

MME-012

**Note :-** Write short notes on any *two* of the following questions in about **70-100** words each.

6×2=12

13. Write a short note on Botulinum neurotoxin.
14. Diagnosis and treatment of ricin toxicity. Comment.
15. Enumerate possible pathogens in Agroterrorism and describe their mode of transmission.

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