

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

Term-End Examination

June, 2022

**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**.

PART A

Answer any **one** of the following questions in
300 – 400 words : *1×12=12*

1. Describe acute and late effects of Radiation on various organ systems. *12*

2. How would you handle a patient with Radioactivity Contamination ? *12*

Answer any **two** of the following questions in
70 – 100 words each :

2×6=12

3. Discuss the basic radiation safety concepts for health care workers. 6
4. Describe the process of radioactive waste disposal. 6
5. Write a short note on the different phases of injury during a Nuclear Explosion. 6

PART B

Answer any **one** of the following questions in
300 – 400 words each : 1×12=12

6. Discuss the mechanism of action, signs and symptoms, and treatment of Nerve Agent Poisoning. 12

7. Discuss in detail 'Classification of Chemical Warfare Agents'. 12

Answer any **two** of the following questions in
70 – 100 words each : 2×5=10

8. Name various methods of off-site detection and analysis of chemical agents. Discuss any two of them. 1+4=5

9. What is Toxic Pulmonary Edema ? What are the general principles of management for the same ? 2+3=5

10. Write a short note on Chemical Weapons Convention. 5

PART C

Answer any **one** of the following questions in
300 – 400 words :

$1 \times 12 = 12$

11. What are the various bacterial agents that can be used for bioterror ? Enumerate clinical presentation, lab diagnosis and medical management of Plague. $2+3+3+4=12$
12. Define Agroterrorism. What are the various targets of Agroterrorism ? How do you counter these threats ? $2+2+8=12$

Answer any **two** of the following questions in
70 – 100 words each :

$2 \times 6 = 12$

13. Explain how you would recognize a viral bioterror threat. 6
14. Discuss Biological Weapons Convention. 6
15. Describe the difference between Toxins and Chemical agents. 6
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