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**MME-012**

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

**Term-End Examination**

**December, 2022**

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

*Time : 3 Hours*

*Maximum Marks : 70*

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

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**Part—A**

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

1. Describe the measures, the medical authority need to take on the ground, in case of a radiological disaster. 12
2. Design of ideal EMRC. 12

**P. T. O.**

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

3. Management of spillage of radioactive material in a nuclear medicine department. 6
4. The International Nuclear and Radiological Event Scale. 6
5. Dead body disposal in case of Radiological and Nuclear Contamination. 6

### **Part—B**

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

1. Discuss mechanism of action, signs and symptoms and treatment with respect to poisoning by a choking agent. 12
2. What are the various types of decontamination procedures against CW agents ? Discuss the chemical methods for same in detail. 12

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

3. Enumerate the various methods of detection of chemical sample in vapour phase. Discuss any *two* of them. 5
4. Discuss pre-hospital management in case of chemical disaster. 5
5. Write a short note on Bhopal Gas Tragedy. 5

**Part—C**

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

1. What are various levels of Laboratory Response Network (LRN) ? What role do the laboratories play in management of bio-terrorism ? 4+8
2. What is Veterinary Terrorism ? Name *two* Foreign Animal diseases. How do you counter the threat of Veterinary terrorism ? 2+2+8

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

3. What are the epidemiological features that should alert the authorities of an outbreak caused by a biological agent. 6
4. Genetically Engineered Virus. 6
5. 'Small pox is a threat to human population.' Discuss. Why ? Describe how do you manage a patient of small pox. 6