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**MME-012**

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

**Term-End Examination**

**December, 2021**

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

*Time : 3 Hours*

*Maximum Marks : 70*

**Note :** (i) *There are three Parts A, B and C.*

(ii) *All Parts are compulsory.*

**Part—A**

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

1. Describe acute radiation syndrome. Discuss the clinical symptoms and explain the patient management. 4+8

2. Briefly describe the acute and late effects of radiation. 12

II. Write notes on any **two** of the following in **70–100** words each : 2×6=12

1. Internal and external radioactive contamination
2. Use of radioactive detection in hospital setting
3. Prophylactic and therapeutic option against radiation exposure

**Part—B**

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

1. Describe the features of sulphur mustard gas. Discuss the chemical manifestation of its exposure on different organs and organ systems. 12
2. Explain the medical management of industrial chemical disaster. 12

[ 3 ]

II. Write notes on any *two* of the following in  
70-100 words each :  $2 \times 6 = 12$

1. Radiological dispersal device
2. QMRT
3. Dose-response relationship in chemical agent

**Part—C**

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

1. Discuss the clinical prevention, diagnosis and treatment of Plague. 12
2. Discuss the various diagnostic support availability at different levels for a biological disaster. 12

II. Write notes on any *two* of the following in  
70-100 words each :  $2 \times 6 = 12$

1. Viral hemorrhagic fever
2. Risk communication in agrotourism
3. Advantage of Staphylococcal enterotoxins as a biological warfare agent.

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