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MME-012

**POST GRADUATE CERTIFICATE IN
MEDICAL MANAGEMENT OF CBRNE
DISASTERS (PGCMDM)
Term-End Examination
June, 2023**

**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. Answer questions in the sequence given.*

Part—A

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

1. What are the various methods of radioactive contamination ? 12

P. T. O.

2. What is the general criteria for rating events in INES (The International Nuclear and Radiological Event Scale)? 12

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

1. Radiological Dispersion Devices (RDD). 6
2. Residual radiation from nuclear explosion. 6
3. Thermal injuries caused by a nuclear bomb. 6

Part—B

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

1. What are the decontamination procedures to reduce or remove the chemical agents in a chemical attack? 12
2. What is toxic pulmonary edema and what chemicals are responsible for it? 12

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

1. Triage in management of chemical warfare casualty. 6
2. Tear gas as riot control agent. 6
3. Experimental drugs for chemical warfare agents. 6

Part—C

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

1. Describe the decontamination strategies in bioterrorism scenario. 12
2. Comment on 'Anthrax bacteria : a bioterror agent'. 12

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

1. Characteristics of toxins as agents of bioterrorism. 5
2. Risk communication in relation to bioterrorism. 5
3. Pathogenesis and mechanism of action of Botulinum neurotoxin. 5