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MME-011

**POST GRADUATE CERTIFICATE IN
MEDICAL MANAGEMENT OF CBRNE
DISASTERS**

Term-End Examination

June, 2023

MME-011 : BASICS OF CBRNE

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** question in **300–400** words :

1. (a) What are the different types of radiation ? Enumerate sources of ionizing radiation. 6
- (b) What are the radioactive decay modes. State the radioactive decay law. 6

P. T. O.

2. (a) What are the personnel radiation dose monitoring instruments ? 6
 - (b) Describe the procedure for personnel monitoring of radiation dose received by persons working with radiation. 6
- II. Write short notes in **70–100** words on any **two** of the following topics : 2×6=12
1. Population surveillance for health effects.
 2. Describe the role of QRMT in radiation disaster.
 3. Decontamination procedure in a radiation disaster.

Part–B

- I. Answer any **one** question in **300-400** words :
1. What are bioterrorism agents ?
Enumerate. How are they classified ? 12
 2. What is Laboratory Response Network ?
What is its use in bioterrorist attack ? 12
- II. Write short notes in **70–100** words each on any **two** of the following topics :
1. Role of PCR in detection of bioagent during a biological attack 6

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2. Explain the epidemiological triad/triangle. 6
3. What is triage ? 6

Part–C

- I. Answer any **one** question in **300–400** words :
 1. Classify and explain the chemical warfare agents. 12
 2. How will you detect the chemical warfare agents ? 12
- II. Write short notes in **70–100** words each on any **two** of the following topics : 2×5=10
 1. Blast Lung
 2. Definition and causes of explosion
 3. Bhopal Gas Release, 1984