MME-011

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

Term-End Examination

June, 2022

MME-011 : BASICS OF CBRNE

Time : 3 hours   *Maximum Marks : 70*

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

PART A

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

    (a) Enumerate official agencies responsible for preparedness and response during nuclear or radiological accidents.
         Describe the role of each agency in detail.   *6+6=12*

    (b) Enumerate and elaborate the steps of Disaster Response and Manpower Management in a radiological mass event. Discuss QRT and QMRT.   *6+6=12*

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

(a) Role and Responsibilities of EMRC

(b) "Radioactive Decay" and various modes of Decay

(c) Dual use of Radioactivity and Radio Isotopes used in Medicine

PART B

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

(a) What are the methods of sample processing in case of Environmental Contamination by an unidentified Biological Agent ?

Explain the methodology of collection of food, water, air and surface samples. *6+6=12*

(b) Enumerate a few viruses coming under 'Category B' of Potential Bio Agents.

Describe clinical specimen and diagnostic methods useful in detection of viral hemorrhagic fevers. *6+6=12*

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

(a) Biological Weapon Convention and Categories of Biological Agents

(b) Point Source and Continuous Common Source Epidemics

(c) Emergency Operation Centre (EOC) and Levels of EOC

PART C

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

   (a) Enumerate methods of detection of Chemical Agents.
        Write in detail about onsite detection methods.   *6+6=12*

   (b) What are the types of Personal Protective Equipment used in Chemical Agent exposure ?
        Describe the components of PPE in level A, B, C, D.   *6+6=12*

6. Write short notes on any ***two*** of the following in 70 – 100 words each :   *2×5=10*

   (a) Chemical Weapons Convention (CWC) and the General Obligations of CWC

   (b) Classification of Chemical Warfare Agents with examples

   (c) Iran-Iraq War

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