

**G-3/364/22**

Roll No. ....

**III Semester Examination, January 2022**

**M.Sc.**

**DEFENCE STUDIES**

Paper II

(Chemical in War)

Time : 3 Hours ]

[ Max. Marks : 80

**Note :** *All questions are compulsory. Question Paper comprises of 3 Sections. Section A is objective type/multiple choice questions with no internal choice. Section B is short answer type with internal choice. Section C is long answer type with internal choice.*

**SECTION A**

**1×8=8**

**(Objective Type/Multiple Choice Questions)**

*Choose the correct answer :*

- ..... are sharp pieces of glass or metal. Which causes fatalities in the event of an IED explosion.  
(a) Detonator            (b) Casing  
(c) Splinter            (d) None of these
- The explosion caused by an IED .....  
(a) is always small in scale  
(b) is always large in scale

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- (c) depends on how the IED has been assembled  
(d) None of the above
- In a teargas cartridges, which substances can causes burning sensation ?  
(a) Chlorocetophenone  
(b) Chlorobenzamide  
(c) Chloro-but-4-ol  
(d) Both (a) and (b)
- Which one mentioned below is one of commercial explosives ?  
(a) HMTD                      (b) Dynamite  
(c) RDX                        (d) C-4
- Lysergic acid diethylamide is a :  
(a) Blister agent            (b) Blood agent  
(c) Choking agent        (d) Psychological agents
- Tabun is a :  
(a) Choking agent        (b) Blood agent  
(c) Nerve agent            (d) Vomiting agent
- Who first used chemical weapons in W.W.I. ?  
(a) Germany                (b) Britain  
(c) France                    (d) Poland

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8. What was the most commonly used chemical used in battle during W.W.I. ?

- (a) Mustared gas (b) Nerve gas  
(c) Choking agent (d) Chlorine gas

**SECTION B** **6×4=24**

**(Short Answer Type Questions)**

**Note :** Answer the following questions in **250** words.

**Unit-I**

1. Write a note on conventional explosive weapons.

*Or*

Write a note on production of chemical weapons.

**Unit-II**

2. Write a note on characteristics of lachrimators.

*Or*

Explain the lung injurant agents.

**Unit-III**

3. Write a note on Nepalm bomb.

*Or*

Write a note on principle of Biological war.

**Unit-IV**

4. Write a note on personal protection against chemical agents.

*Or*

Write a note on the protection of biocarriers.

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**SECTION C** **12×4=48**

**(Long Answer Type Questions)**

**Note :** Answer the following questions in **500** words.

**Unit-I**

1. Write an article on explosive materials.

*Or*

Write an essay on chemical war.

**Unit-II**

2. Describe the types of chemical ammunition.

*Or*

Explain the means of dispersion of chemical agents.

**Unit-III**

3. Write an article on Incendiary agents.

*Or*

Describe the respiratory agents.

**Unit-IV**

4. Write an essay on use of chemical agents in world war II.

*Or*

Write an article on biological warfare.

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