

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, January 2021

Course: Disaster Management
Program: M. Sc. Microbiology & M. Sc. N&D
Course Code: HSFS 7021

Semester: I
Time 03 hrs.
Max. Marks: 100

Instructions:

SECTION A

S. No.		Marks	CO
Q 1	Differentiate Hazards and Risk.	5	CO2
Q 2	Define vulnerability.	5	CO2
Q 3	Preferred bio safety level for laboratories dealing large volumes of infectious samples of SARS-CoV-2 Virus is a) BSL 0 b) BSL 1 c) BSL 2 d) BSL 3	5	CO1
Q 4	Outline the steps involved in Risk Management as per ISO 31001	5	CO2
Q 5	In the event of an earthquake the first wave to be detected is a) P Wave b) S wave c) Love wave d) Rayleigh wave	5	CO1
Q 6	A solid waste incinerator located in a large metro area was the target of a radical group of environmentalists, who bombed the incinerator in the middle of the night in order to prevent it from operating. The explosion resulted in the release of dioxins and furans into the ambient air, as well as dust and smoke from fires, which would persist for weeks. List four relevant agencies that would be involved in this disaster response.	5	CO3

SECTION B

Q 7	Discuss the classification of natural disaster in India.	10	CO1
Q 8	What do you understand by structural and non-structural mitigation for disaster management? Discuss with suitable examples.	10	CO3
Q 9	Disaster preparedness is the first step in any disaster management process. Explain how hazard zonation will help disaster mitigation.	10	CO3

Q 10	What are the factors to be considered while planning the rebuilding works after a major disaster?	10	CO4
Q 11	Describe the roles of non-governmental and inter-governmental agencies in disaster management.	10	CO4
SECTION-C			
Q 12	<p>Explain causes and mechanism of earthquakes. Discuss various measures that can be used to reduce seismic risk in India. (10+10)</p> <p style="text-align: center;">OR</p> <p>Explain the mechanism of tropical cyclone formation. Discuss the preparedness measures in place to reduce risk during these events. (10+10)</p>	20	CO3