


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022			
Course: Global Disaster Scenario Program: B. Tech. FSE Course Code: HSFS 4014		Semester: VII Time : 03 hrs. Max. Marks: 100	
Instructions:			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q1	Discuss the role of managing climate change and promoting sustainable development in disaster risk reduction.	4	CO2
Q2	Classify floods based on how they are caused.	4	CO2
Q3	Categorize the following based on the disaster group designed by CRED a) Rockfall b) Thunderstorm/ lightning c) Heat wave d) Viral infectious disease	4	CO2
Q4	Mention whether the following statements are true or false. a. Flattening of slopes is not a landslide mitigation strategy b. Floods rarely occur in the northwest river region of India. c. If the discharge of a stream increases, its carrying capacity decreases. d. Floods can play a role in making the underlying soil more fertile.	4	CO1
Q5	Expand the following: OCHA, NIDM, FAO, IMD	4	CO1
SECTION B (4Qx10M= 40 Marks)			
Q6	Present your analysis on the role of early warning systems in disaster management d for a) flood and b) cyclone events.	10	CO3

Q7	Describe how a tsunami occurs? What are the visible warning signs before a tsunami strikes? Explain the role of mangrove forests in reducing of the effects of tsunamis.	10	CO1
Q8	'Floods can also be beneficial', justify this statement. Explain the non-structural mitigation measures for floods.	10	CO2
Q9	What is a storm hydrograph? Draw a storm hydrograph and explain its main features. Detail the factors affecting storm hydrographs. OR Describe the key components of the disaster management cycle with the help of a neat diagram.	10	CO1
SECTION-C (2Qx20M=40 Marks)			
Q10	In the event of a massive forest fire raging for 2-3 weeks very close to the UPES campus, suggest a disaster management plan considering all stages of disaster management. OR Assuming you live in a coastal village which is susceptible to storms, strategize a disaster management plan keeping all the stages of the disaster management cycle in mind.	20	CO4
Q11	Summarize with the help of a flowchart the national disaster management structure in India.	20	CO3