UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, April/May 2018

Course: B.Tech **Semester: 8th**
Program: FSE
Time: 03 hrs. **Max. Marks: 100**

Instructions:

SECTION A

S. No.		Marks	CO
Q 1	Differentiate Incidental and Non Incidental Oil spill	5	CO5
Q 2	Differentiate Level 1, Level 2 and Level 3 Emergency with example. What are the objective of Emergency management plan. Explain the cycle of managing emergency.	5	CO1
Q 3	Define Contingency plan with examples. What are the components of it?	5	CO5
Q 4	Explain with a chart showing interaction among various Natural Disasters?	5	CO6
	SECTION B		
Q 5	Explain the disaster that occurs in arid and Semi-Arid region	10	CO4
Q 6	Explain the storm hydrograph that leads to development of flooding	10	CO6
Q 7	Spills Emergency during road transportation of hazardous chemicals has occurred. As A driver, How will you tackle the situation? How will you safely dispose the chemical.	10	CO3
Q 8	Explain the role of GIS and Remote Sensing in Disaster Managemnet	10	CO2
	SECTION-C		
Q 9	What is major hazard control. Mention the components of major hazard control system. Explain the role of management in major hazard control. Brief about the exceptions from major hazard control. How does they classify the major industrial accidents.	20	CO1
Q 10	A) What is meant by earthquake? Explain the types of seismic waves. How is earthquake epicenter located? How is earthquake measured? Draw a sketch of seismogram.(10 marks) B) Explain the various classifications of earth movement or landslides. Many techniques are adopted throughout world to prevent landslides. Discuss those techniques. (10 marks)	20	CO6

	OR Explain various factors which lead to Flooding. Mention various structural and Nonstructural control measures to avoid flooding (10 marks)		

Name: **Enrolment No:**	UPES

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Instructions:

SECTION A

S. No.		Marks	CO
Q 1	Explain the three stages of emergency during natural disaster	5	CO1
Q 2	Define the following **a)** Contingency plan b) MHF c) ECC	5	CO5
Q 3	Explain with a chart showing interaction among various Natural Disasters?	5	CO6
Q 4	Differentiate Level 1, Level 2 and Level 3 Emergency with example. What are the objectives of Emergency management plan? Explain the cycle of managing emergency.	5	CO3

SECTION B

Q 5	Explain the points mentioned in preparation of on-site and off-site emergency plan mentioned in manufacture, handling, import and storage of hazardous chemical rules.	10	CO3
Q 6	Explain the storm hydrograph that leads to development of flooding	10	CO6
Q 7	Spills Emergency during road transportation of hazardous chemicals has occurred. As A driver, How will you tackle the situation? How will you safely dispose the chemical.	10	CO4
Q 8	Explain the role of GIS and Remote Sensing in Disaster Management	10	CO6

SECTION-C

Q 9	What is major hazard control. Mention the components of major hazard control system. Explain the role of management in major hazard control. Brief about the exceptions from major hazard control. How does they classify the major industrial accidents.	20	CO2
Q 10	A) What is meant by earthquake? Explain the types of seismic waves. How is earthquake epicenter located? How is earthquake measured? Draw a sketch	20	CO6

	of seismogram.(10 marks) B) Explain the various classifications of earth movement or landslides. Many techniques are adopted throughout world to prevent landslides. Discuss those techniques. (10 marks) OR Explain various factors which lead to Flooding. Mention various structural and Nonstructural control measures to avoid flooding (10 marks)		