

Name:  
Enrolment No:



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**End Semester Examination, December 2018**

**Course: Global Disaster Scenario and Types of Natural Disaster**

**Semester: III**

**Programme: M.Tech HSE spl. in Disaster Management**

**Time: 03 hrs.**

**Max. Marks: 100**

**Instructions: Please attempt all questions from Section A, Section B and Section C**

**SECTION-A (05X04=20 marks)**

**All questions are compulsory**

S. No.		Marks	CO
Q 1	Expand the following terms a) NDMA..... b) EOC..... c) NDRF..... d) NIDM.....	4	CO1
Q2	Briefly discuss the objectives of National Disaster Policy 2009.	4	CO1
Q3	List the reasons responsible for causing man –made disaster.	4	CO2
Q4	What are the causes and effects of groundwater pollution?	4	CO2
Q5	Write a short note on- Landmines	4	CO2 &CO3

**SECTION-B (04x10=40 marks)**

**Note: Students are required to attempt all the four questions from Section B. However choice is given between Q.No.9 and Q.No.10. Students have to attempt any one question either Question 9 or Question 10.**

Q6	List and explain the causes which lead to landslide. Discuss the mitigation measures which help in controlling landslides.	10	CO2& CO3
Q7	Discuss major threats /causes responsible for the loss of biodiversity.	10	CO2
Q8	Noise by definition is unwanted & undesirable sound, what is pleasant to some ears it may be extremely unpleasant to other, depending on a number of physiological factors. Explain the control technologies available to reduce noise pollution.	10	CO3
Q9	An earthquake is a sudden violent motion of the earth, which lasts for a short time, within a very limited region. Describe the causes of earthquake and discuss the seismic zones of India.	10	CO2
Q10	<p style="text-align: center;"><b>Or</b></p> Forest fire may be defined as an unrestricted and freely spreading combustion that consumes the natural fuels. Classify different types of forest fires and discuss its effects.		

**SECTION-C (02x20=40 marks)**

**Note: This section is divided into 2 sections C-1 and C-2. Question no 11 is compulsory however choice is given**


**in section C-2. Students are required to attempt any one question from section C-2 either Question 12 (a) or Question 12(b).**

Q11	<p style="text-align: center;"><b>Section C-1</b></p> Name five international organization involved in disaster management. Discuss Bhopal Gas tragedy in detail.	<b>20</b>	<b>CO4</b>
Q12(a)	<p style="text-align: center;"><b>Section C-2</b></p> Flood is a state of high water level along a river channel or on the coast that leads to inundation of land, which is not usually submerged. Discuss different structural and non-structural measures adopted to control flood situations.	<b>20</b>	<b>CO3</b>
Q12 (b)	<p style="text-align: center;"><b>Or</b></p> Drought is either absence or deficiency of rainfall from its normal pattern in a region for an extended period of time leading to general suffering in the society. Discuss different mitigation strategies and governmental initiatives adopted to combat this natural disaster.		<b>CO3</b>

**CONFIDENTIAL**

<b>Name of Examination</b> <small>(Please tick, symbol is given)</small>	:	MID		END	<input type="checkbox"/>	SUPPLE	
<b>Name of the School</b> <small>(Please tick, symbol is given)</small>	:	SOE	<input type="checkbox"/>	SOCS		SOP	
<b>Programme</b>	:	M.Tech HSE spl. in Disaster Management					
<b>Semester</b>	:	III					
<b>Name of the Course</b>	:	Global Disaster Scenario and Types of Natural Disaster					
<b>Course Code</b>	:	MDMT 716					
<b>Name of Question Paper Setter</b>	:	MADHUBEN SHARMA					
<b>Employee Code</b>	:	40000726					
<b>Mobile &amp; Extension</b>	:	9410556403					
<b>Note: Please mention additional Stationery to be provided, during examination such as Table/Graph Sheet etc. else mention "NOT APPLICABLE":</b>							
<b>FOR SRE DEPARTMENT</b>							
<b>Date of Examination</b>	:						
<b>Time of Examination</b>	:						
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**Note: - Pl. start your question paper from next page.**

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**Instructions: Please attempt all questions from Section A, Section B and Section C**

**SECTION-A (05x04=20 marks)**  
**All questions are compulsory**

S. No.	Question	Marks	CO
Q 1	Expand the following terms a) ICS..... b) SDMA..... c) SEC..... d) DDMA.....	4	CO1
Q2	Name five international organization involved in disaster management.	4	CO4
Q3	Define the term solifluction and soil creep.	4	CO2
Q4	List the factors which cause drought.	4	CO2
Q5	Write a short note on – Incineration of solid waste	4	CO2

**SECTION-B (04x10=40 marks)**

**Note: Students are required to attempt all the four questions from Section B however choice is given between Q.No.9 and Q.No.10. Students have to attempt any one question i.e. Question 9 or Question 10.**

Q6	Classify the biological agents responsible for causing biological disaster and discuss the preventive methods to control it.	10	CO2 & CO3
Q7	Earthquake is one of the most destructive natural hazards. Explain the methods that can be used to reduce the impact of earthquake on buildings.	10	CO3
Q8	Discuss the disaster management cycle.	10	CO1
Q9	A cyclone is a violent storm, often of vast extent, characterized by high winds rotating about a calm centre of low atmospheric pressure. Explain the different stages involved in the formation of cyclones.	10	CO2
Q10	Or		CO2
	Flood is a state of high water level along a river channel or on the coast that leads to inundation of land, which is not usually submerged. Discuss the causes of floods in detail.		CO2

**SECTION-C (02x20=40 marks)**

**Note: This section is divided into 2 sections C-1 and C-2. Question no 11 is compulsory. However choice is given in section C2. Students are required to attempt any one question from section C2 i.e. Question 12 (a) or Question 12(b).**

Q11	<b>Section C1</b>	<b>20</b>	<b>CO4</b>
	Discuss the cause, effects and lesson learnt from Uttarakhand Disaster, 2013		
Q12(a)	<b>Section C2</b>	<b>20</b>	<b>CO3</b>
	Biodiversity has been defined as the variability among living organisms from all sources including inter alia terrestrial, marine and other aquatic ecosystem and the ecological complexes of which they are a part. Explain different methods adopted to conserve the biodiversity.		
	<b>Or</b>		
Q12(b)	Deforestation refers to the cutting, clearing, and removal of rainforest or related ecosystems into less bio-diverse ecosystems such as pasture, cropland, or plantations. What are the major causes and consequences of deforestation? Discuss different methods involved in the forest management.		<b>CO2&amp; CO3</b>