

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Course : Global Disaster Scenario and Types of Natural Disaster,

Semester : III

Programme : M.Tech. HSE (DM)

Course Code : HSFS 8009

Duration : 03 Hours

Max. Marks : 100

Nos. of page(s) :4

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

SECTION A. 20 Marks

1. Each Question will carry 4 Marks

2. Instruction: Please attempt all questions.

SN	Questions	M M	CO
Q.1.	<p>Fill in the Blanks :</p> <p>i) ----- embraces all measures taken to reduce both the effects of the hazard itself and the vulnerable conditions in order to reduce the scale of a future disaster.</p> <p>iii) The United Nations Convention to Combat Desertification (UNCCD) established in ----- is the sole legally binding international agreement linking environment and development to sustainable land management</p> <p>iii)----- is the process embraces measures that enables governments, communities and individuals to respond rapidly to disaster situations to cope with them effectively.</p> <p>iv) The Pacific Ocean, Canada, USA, Mid Atlantic Ocean and northwest Europe are major regions of ----- cyclones.</p>	4	CO1
Q.2.	<p>Fill in the Blanks :</p> <p>i) Flash Floods occurring within -----hours, mainly due to heavy rainfall associated with towering cumulus clouds, thunderstorms, tropical cyclones or during passage of cold weather fronts, or by dam failure or other river obstruction. This type of flood requires a rapid localized warning system.</p>	4	CO1

	<p>ii) -----are the greatest killers of a cyclone, by which sea water inundates low lying areas of coastal regions and causes heavy floods, erodes beaches and embankments, destroys vegetation and reduces soil fertility.</p> <p>iii) P’ waves travel about ----kilometers per hour and ‘S’ waves travel with a speed of ---kilometers per hour.</p> <p>iv) About ----- per cent of the forest fires are caused by human beings, especially to promote new flush of grasses, collection of minor forest produce or to prepare land for shifting cultivation.</p>		
Q.3.	<p>Write T & F for the followings.</p> <p>i) UNDRR was established in 1990 as a dedicated secretariat to facilitate the implementation of the International Strategy for Disaster Reduction (ISDR).</p> <p>ii) The Sendai Framework was adopted by UN Member States on 18 March 2015 at the Third UN World Conference on Disaster Risk Reduction (WCDRR). in Sendai City, Miyagi Prefecture, Japan.</p> <p>iii) The DDMA will also ensure that the guidelines for prevention, mitigation, preparedness, and response measures laid down by the NDMA and the SDMA are followed by all the district-level offices of the various departments of the State Government.</p> <p>iv) The Sendai Framework for Disaster Risk Reduction 2015-2030 (Sendai Framework) is the first major agreement of the post-2015 development agenda, with seven targets and four priorities for action.</p>	4	CO2
Q.4.	<p>Write full form of the following abbreviations:</p> <p>i) DDMA -----</p> <p>ii) NCDM -----</p> <p>iii) NDMA -----</p> <p>iv) NDRF -----</p>	4	CO1
Q.5.	<p>Write any five organization which are associated with drought assessment and monitoring in India.</p>	4	CO1
SECTION B (10 x 4 = 40 Marks)			

Q.1.	Illustrate the various principles of Disaster Management.	10	CO3
Q.2.	Explain the various causes of Earthquake. Describe the various impacts of earthquake on human being and on environment.	10	CO4
Q.3.	Differentiate between: a) Surface fire and Crown fire b) Insitu conservation and Ex situ conservation c) Cyclone and Tsunami d) Solifluction and soil creep e) L wave and P wave	10	CO3
Q.4.	Explain the institutional framework in India for disaster preparedness and mitigation. <u>Or</u> Describe the various mitigation measures which can be used to control and to prevent Tsunami in different part of the world.	10 10	CO4 CO4
SECTION-C SECTION -C (2 x 20 = 20 Marks)			
Q.1.	Describe various structural mitigation measures and non structural mitigation measures which you will implement to control floods in different part of the world. <u>Or</u> i) Explain economic impact, environmental impact and social impact of drought in India. (10 marks) ii) Evaluate the long term strategies which you will used to control and prevent drought in different part of the india. (10 Marks)	20 20	CO5 CO5
Q.2	i) Describe the various causes of landslide in Himalayan regions of India. (10 Marks) ii) Evaluate the various mitigation strategies which you will implement to control and prevent landslide in different part of Himalayan region of India. (10 Marks)	 20	 CO5