University of Mumbai
Examination March 2022
Examinations Commencing from 17th May
Program: __B.E (Mechanical Engineering)_
Curriculum Scheme: Rev 2016
Examination: Semester VII   Subject (Paper Code) 42864

Course Code: _ILO7017_ and Course Name: __Disaster Management and Mitigation Measures_

Time: 3 hours

Max. Marks: 80

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Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Which of the following is not a geomorphic cause of flood?
Option A:	Landslides
Option B:	Channel Avulsion
Option C:	Precipitation
Option D:	Tidal and Backwater effect
2.	Cyclones are generally called as _____ in north-western Australia.
Option A:	Typhoons
Option B:	Hurricanes
Option C:	Tornados
Option D:	Willy-willies
3.	_____ % of cultivable area is prone to drought in India.
Option A:	68
Option B:	72
Option C:	38
Option D:	56
4.	Which of the following is not evidence for Climate Change?
Option A:	Increasing global temperature
Option B:	Volcanic eruptions
Option C:	Rise in sea-level
Option D:	Glacier melting
5.	Cyclones, Heat wave , Climate change are part of _____ disaster.
Option A:	The Geological Disaster
Option B:	The Hydrological Disaster
Option C:	The Meteorological Disasters
Option D:	The Chemical Disaster
6.	Disaster Management Act enforced in which year?
Option A:	2005
Option B:	2015
Option C:	1995
Option D:	2001
7.	Which of the following is important factor in landslide studies?
Option A:	Angle of Repose
Option B:	Angle of Response
Option C:	Angle of curvature
Option D:	Angle of sight

8.	_____ is created along coast line for coastal erosion and to reduce the wave impact from clycones and Tsunamis.
Option A:	Retaining walls
Option B:	Trusses
Option C:	Bioshield
Option D:	Bridges
9.	HPC of government stands for?
Option A:	High Process Comission
Option B:	High Power Committee
Option C:	High Power Commission
Option D:	Human rights Prevention Committee
10.	How many goals are there in Sustainable Development Goals (SDGs)?
Option A:	15
Option B:	16
Option C:	17
Option D:	18

Option 3

	Q2 (20 Marks)	
A	Solve any Two	5 marks each
i.	What is Disaster? Explain term Vulnerability, Risk and Hazards.	
ii.	What is landslide? Explain various factors affecting landslide.	
iii.	What is Global Warming? How it is different than the climate change?	
B	Solve any One	10 marks each
i.	Explain different components of Disaster Management.	
ii.	What are the responsibilities of NDMA?	

	Q3 (20 Marks)	
A	Solve any Two	5 marks each
i.	What are different nodal ministries for various disasters?	
ii.	Mass Casualty Management	
iii.	Explain SAR (Search and Rescue) in Disaster Management	
B	Solve any One	10 marks each
i.	Explain role of NGOs in Disaster Management.	
ii.	Describe how Geographic Information System (GIS) play important role in Disaster Management.	

	Q4 (20 Marks)	
A	Solve any Two	5 marks each
i.	What is contigency plan? How it is important in Disaster Management?	
ii.	Differentiate beween Bioshield and Sea wall.	
iii.	Explain role of international agencies in Disaster Management.	
B	Solve any One	10 marks each

| i. | Explain the Community Based Disaster Management (CBDM) in detail. |
| ii. | Describe different mitigation measures for Eathquake? |