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Code No. : 14144 A

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD*Accredited by NAAC with A++ Grade***B.E. IV-Semester Main & Backlog Examinations, July-2022****Disaster Management (OE-II)**

Time: 3 hours

Max. Marks: 60

*Note: Answer all questions from Part-A and any FIVE from Part-B***Part-A (10 × 2 = 20 Marks)**

Q. No.	Stem of the question	M	L	CO	PO
1.	What is the difference between Hazard and Disaster?	2	1	1	6
2.	Explain the terms vulnerability and risk.	2	1	1	6
3.	Name some of the Hydro meteorological disasters.	2	1	2	6
4.	What are the various effects of Cyclones?	2	1	2	6
5.	As per the seismic zoning map of the country, India is classified into how many zones? Name some of the places according to their zones.	2	3	2	6
6.	What Causes Avalanche?	2	1	2	6
7.	List out the safety control measures in a chemical industry.	2	2	3	6
8.	What is a Human induced Hazard?	2	3	3	6
9.	What is Remote sensing and GIS?	2	1	4	5
10.	What is the role of GIS in Disaster Management?	2	1	4	5
Part-B (5 × 8 = 40 Marks)					
11. a)	What is the role of NDMA (National Disaster Management Authority) in disaster management?	4	3	1	9
b)	Discuss the Vulnerability profile of India wrt any two disasters giving area specific examples for each one of them.	4	2	1	6
12. a)	Suggest Mitigation measures for Drought.	4	4	2	6
b)	Explain in detail, the formation of cyclone emphasizing on hydro-meteorological conditions favoring its formation.	4	3	2	6
13. a)	Discuss Structural and non-structural mitigation measures for Earthquake.	4	3	2	6
b)	List out the effects of landslides.	4	1	2	6

14. a)	Write a short note and analyze, Bhopal gas tragedy as a case study and suggest the improvements in managing the chemical disasters.	5	2	3	2
b)	List out the various causes for Traffic Accidents.	3	3	3	6
15. a)	Define active and passive remote sensing.	4	3	4	5
b)	Write the various stages of remote sensing with the help of a schematic diagram.	4	3	4	5
16. a)	Discuss in brief about Disaster Management Act- 2005.	4	2	1	6
b)	Suggest Mitigation measures for floods.	4	2	2	6
17.	Answer any <i>two</i> of the following:				
a)	Write a detail note on formation and progression of tsunamis.	4	2	2	6
b)	Explain the reasons for Major power breakdowns in India.	4	2	3	6
c)	Explain the utility and applications of RS and GIS in Disaster Management using any one disaster as an appropriate example.	4	3	4	5

M : Marks; L: Bloom's Taxonomy Level; CO; Course Outcome; PO: Programme Outcome

i)	Blooms Taxonomy Level – 1	22.5%
ii)	Blooms Taxonomy Level – 2	33.75%
iii)	Blooms Taxonomy Level – 3 & 4	43.75%

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