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Code No. : 42021A

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. (Civil Engg.) IV Year II-Semester Main Examinations, May-2019

Disaster Mitigation and Management

Time: 3 hours

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Q.No.	Stem of the question	M	L	CO	PO
Part-A (10 × 2 = 20 Marks)					
1.	Explain Disaster Management cycle.	2	2	1	1
2.	Distinguish between human induced and human made disasters.	2	2	1	1
3.	Describe briefly the causes for the occurrence of cyclones and hurricanes.	2	2	2	1
4.	Mention some of the earthquakes that have hit India and the damages caused.	2	1	2	2
5.	List the losses caused by industrial hazards.	2	1	3	2
6.	What are the conditions to be satisfied to call it a power breakdown?	2	2	3	1
7.	How to use concept of Remote Sensing in disaster management?	2	4	4	2
8.	What is remote sensing and GIS?	2	1	4	1
9.	What do you understand by term mitigation of disaster?	2	2	5	1
10.	Describe the role of an individual and his contribution in the mitigation process.	2	5	5	9
Part-B (5 × 10 = 50 Marks)					
11. a)	Discuss about disaster management act and its duties.	5	2	1	2
b)	Describe Vulnerability profile of India.	5	5	1	12
12. a)	What are the effects of Tsunami?	5	2	2	2
b)	Describe the disaster caused by Tsunami, which has occurred in Indian ocean.	5	4	2	2
13. a)	Describe in brief about the Uttarakhand Disaster (Case study)	6	2	3	2
b)	Mention the causes and preventive measures for Road accidents.	4	3	3	1
14. a)	Explain in brief about Remote sensing and GIS	5	2	4	1
b)	Explain certain applications of GIS in disaster prevention.	5	2	4	5
15. a)	Explain about risk assessment involved in different stages of disaster.	5	2	5	6
b)	Give some forecasting methods in disaster management.	5	1	5	5
16. a)	Explain how India is vulnerable to natural disasters.	5	4	1	12
b)	Describe the reasons behind the occurrence of earthquakes.	5	2	2	1
17.	Answer any <i>two</i> of the following:				
a)	Describe the case study of Bhopal Gas tragedy.	5	3	3	2
b)	Describe the role of remote sensing in the prevention of disasters.	5	2	4	5
c)	What are the steps involved in mitigation process?	5	1	5	7

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

S. No.	Criteria for questions	Percentage
1	Fundamental knowledge (Level-1 & 2)	65%
2	Knowledge on application and analysis (Level-3 & 4)	28%
3	*Critical thinking and ability to design (Level-5 & 6) (*wherever applicable)	7%