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Code No. : 14109 DM

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. (CBCS) IV-Semester Main Examinations, May-2018

Disaster Management
(Open Elective-III)

Time: 3 hours

Max. Marks: 70

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

Part-A (10 × 2 = 20 Marks)

1. Define the term vulnerability with suitable example.
2. What is Disaster Management? Write different phases of Disaster Management.
3. What are different types of disasters? Mention with examples.
4. Distinguish between natural and human induced disasters with suitable examples.
5. Mention some of the earthquakes that have hit India and the damages caused.
6. List out the causes and effects caused by tsunami.
7. What are different applications of GIS?
8. Differentiate between spatial and non spatial data.
9. What are different types of remote sensing platforms?
10. Write the roles of NDMA and NEC.

Part-B (5 × 10 = 50 Marks)

11. a) Explain about role of Government (local, state and national) agencies in Disaster Management. [6]
b) Mention goals and objectives of ISRD programme. [4]
12. a) Discuss in brief the Disaster Management Act, 2005. [4]
b) Enlist and define various phases of Disaster Management Cycle. [6]
13. a) Suppose, you are appointed as an incharge of Disaster Management Cell of a village, which is categorized under critical flood zone, write in brief your plan of action towards [5]
 - Prevention and Mitigation of Disasters,
 - Early Warning System, Preparedness and Capacity Development;
 - Awareness During Disaster, Evacuation and Disaster Communication;
 - Search and Rescue, Relief and Rehabilitation;
 - Early Recovery, Reconstruction and Redevelopment.
b) Explain the link between drought and desertification. Briefly explain about effects and mitigation measures of desertification. [5]
14. a) Describe the reasons behind the occurrence of earthquakes and explain mitigation measures. [5]
b) Briefly discuss about Chemical Industrial Hazards with any disaster that occurred in India. [5]
15. a) Explain in detail about vector and raster types of GIS. [5]
b) Explain briefly about the process of Remote Sensing with a neat supporting diagram. [5]
16. a) What is remote sensing and how is it useful in Disaster Management? [5]
b) What are the components of GIS? And list out various advantages of GIS. [5]
17. Answer any *two* of the following:
a) Briefly outline the vulnerability profile of India. [5]
b) What are the causes of 2004, Tsunami which has occurred in Indian Ocean? And inflicted heavy loss of life and property along the coast of Tamil Nadu. [5]
c) Discuss briefly about different satellites and their sensors in remote sensing. [5]

