

U.G. 6th Semester Examination - 2020**ENVIRONMENTAL SCIENCE****Course Code : BENVDSHT4****Course Title : Disaster Management**

Full Marks : 40

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **ten** questions of the following:

1×10=10

- a) What is Tsunami run-up?
- b) Define 3R in disaster management?
- c) What is factor of Safety?
- d) What is earthquake?
- e) Give two example of biological disaster.
- f) What is FIS?
- g) Define Palmer Z Index.
- h) What is WOV?
- i) Who are included in the Crisis Management Group (CMG)?
- j) What is National Mitigation Plan in India?

- k) How does toxic waste affect humans?
- l) How do you create a Risk matrix?
- m) Give suitable examples of sociological and economic pollutions.
- n) What are the types of environmental degradation?
- o) What is exposure routes of Hazardous substances?

2. Answer any **five** questions of the following :

2×5=10

- a) Define Social Vulnerability.
- b) What are the components of risk analysis?
- c) Mention the different types of water and climate related disasters present in India.
- d) Write down the characters of VII, VIII and IX intensity of Mercalli Intensity Scale.
- e) What are the roles of NGO for disaster management in India according to National Policy on DM 2009?
- f) Write about different steps of exposure assessment.
- g) Define Hazardous substance and write its characters.
- h) How many types of radio active wastes present?

[Turn Over]

3. Answer any **two** questions of the following :

5×2=10

- a) How risk assessment done? What is risk evaluation? 3+2
- b) Write a short note on GO-NGO Coordination Platform in India. 5
- c) Give example of world's most dangerous chemical toxin. What is transuranic waste? 3+2
- d) Define biological disasters with example. How do biological disasters occur? 3+2

4. Answer any **one** question of the following :

10×1=10

- a) Define Drought. What are the effects of floods in India? 2+8=10
- b) What are the stages of natural disaster reduction and mangement? Discuss about disaster preparedness. 3+7=10
- c) Discuss about risk prioritized process. What are the main sources of $Pb(C_2H_5)_2$ in Environment?