

B.Tech. DEGREE EXAMINATION, NOVEMBER 2019
Third to Seventh Semester

15CE346E – DISASTER MANAGEMENT AND MITIGATION
(For the candidates admitted during the academic year 2015 – 2016 to 2017 – 2018)

Note:

- (i) **Part - A** should be answered in OMR sheet within first 45 minutes and OMR sheet should be handed over to hall invigilator at the end of 45th minute.
- (ii) **Part - B** and **Part - C** should be answered in answer booklet.

Time: Three Hours

Max. Marks: 100

PART – A (20 × 1 = 20 Marks)

Answer ALL Questions

- How much percentage of Indian land is prone to earthquakes?
(A) 52% (B) 59%
(C) 62% (D) 65%
- National institute of disaster management is at
(A) Manipur (B) New Delhi
(C) Punjab (D) Hyderabad
- The disaster management act was made in the year
(A) 2003 (B) 2004
(C) 2005 (D) 2006
- Which of the following is not a part of the geological disaster?
(A) Volcanoes (B) Sea surge
(C) Earthquake (D) Tsunami
- Avalanches take place in
(A) Low altitudes (B) High altitudes
(C) Ground level (D) Beneath the ocean
- Geothermal energy is generated from
(A) Earthquakes (B) Volcanoes
(C) Floods (D) Land slides
- Earthquakes are recorded by an instrument called
(A) Thermostat (B) Barometer
(C) Rather scale (D) Seismograph
- In India Tsunami warning centre is located at
(A) Hyderabad (B) Ahmedabad
(C) Allahabad (D) Secunderabad
- Where was the first use of Nuclear bombs which cause death to the millions of lives
(A) Melbourne and Sydney (B) Hiroshima and Nagasaki
(C) Karachi (D) Tokyo

10. Too many greenhouse gases in the atmosphere may block heat from escaping into space and trap too much heat next to the surface causing _____.
 (A) Global warming (B) Earthquakes
 (C) Ice age (D) Volcanic eruptions
11. _____ are the outbreak of diseases or contagions of plant and animal life on epidemic of pandemic level.
 (A) Nuclear disaster (B) Biological disaster
 (C) Chemical disaster (D) Forest fire
12. Which was the first country to develop atomic bomb?
 (A) Russia (B) China
 (C) United states of America (D) Japan
13. In disaster management, EWS is
 (A) Emergency warning system (B) Early warning system
 (C) Emergency water supply (D) Earth water science
14. Prevention mitigation and preparedness come under _____ phase.
 (A) Pre disaster (B) Post disaster
 (C) Recovery (D) Response
15. Disaster management cycles is related to
 (A) Recovery and mitigation (B) Response and recovery
 (C) Response, recovery, mitigation and preparedness (D) Preparedness and response
16. How many phase disaster response are there?
 (A) 5 (B) 8
 (C) 4 (D) 3
17. OGC stands for
 (A) Open geoscience community (B) Online geoscience community
 (C) Open geospatial consortium (D) Oil and gas corporate
18. The purpose of a lock out / tag out procedure is to
 (A) Secure harmful energy sources to prevent injury (B) Improve productivity on the job
 (C) Slowdown work so techniques are less stresses (D) Identify personal items to avoid theft
19. The population growth of India is at the rate of
 (A) 2.1% per year (B) 3.5% per year
 (C) 1.23% per year (D) 6% per year
20. The agency that provide information about the weather
 (A) ISO (B) IMD
 (C) ISI (D) CGWB

PART – B (5 × 4 = 20 Marks)
 Answer ANY FIVE Questions

21. Draw the disaster management cycle.
22. Write a brief note on landslide.
23. Explain forest fire and building fire.
24. Explain in detail about the post disaster stage.
25. Explain briefly about seismological observatory.
26. Give a brief note on ozone layer depletion.
27. Give a brief note on nuclear disaster.

PART – C (5 × 12 = 60 Marks)
 Answer ALL Questions

28. a. Explain national disaster management frame work in detail with flow chart description.
 (OR)
 b. Explain disaster management cycle in detail with pre disaster and post disaster stages elaborately.
29. a. Discuss in detail about earthquakes.
 (OR)
 b. Discuss in detail about landslides.
30. a. Explain in detail about the nuclear disasters.
 (OR)
 b. Explain in detail about the forest fire and deforestation.
31. a. Explain the pre disaster stage preparedness plan for flood.
 (OR)
 b. Explain the post disaster stages for landslide and Tsunami.
32. a. Explain in detail about seismological observatory.
 (OR)
 b. Discuss the role of GIS in disaster management and mitigation.

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