

PARUL UNIVERSITY
FACULTY OF AGRICULTURE
B.Tech. (Agriculture) Winter 2019 - 20 Examination

Semester: 2
Subject Code: 20103154
Subject Name: Environmental Science and Disaster Management

Date: 13/12/2019
Time: 10:30am to 12:30pm
Total Marks: 50

Instructions

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1**A) Fill in the blanks (Each of 0.5 Mark) (05)**

- i) In venerability analysis scale is _____
- ii) A place inside earth where Earthquake originates is called _____
- iii) Full form of NDMA is _____
- iv) The movement of earthy materials from higher region to lower region due to gravitational pull is called _____.
- v) Nuclear attack is _____ type of disaster.
- vi) Volcanic eruption is _____ type of disaster.
- vii) Fire in forest is the causes of _____ pollution.
- viii) Full form of SDMA is _____
- ix) The study of interaction of organisms on land is called _____
- x) Full form of UNESCO is _____

B) Multiple Choice Questions (Each of 0.5 Mark) (10)

- i) Select the correct option:
Landslide move along a surface of rupture that is curved and concave is
 (a) Rotational slides (b) Translational slides
 (c) Rock fall (d) All of these.
- ii) The theory of plate tectonics states that rigid plates are driven by forces within the Earth and interact by _____
 (a) colliding with each other (b) pulling apart from each other
 (c) Sliding past each other (d) All of these.
- iii) Hazard is _____.
 (a) Condition (b) a calamity
 (c) an accident (d) Rescue Operation
- iv) The study of interaction of organisms in water is called _____
 (a) Aquatic ecology (b) Terrestrial ecology
 (c) Forest ecology (d) None of these
- v) Animal is a _____.
 (a) Biotic component (b) A biotic component
 (c) Ecosystem (d) None of these
- vi) Tsunamis waves generated by _____
 (a) Underwater landslides (b) Earthquake (c) Volcanic eruption (d) All of above
- vii) Landslides occurs due to _____
 (a) Gravity (b) heavy rainfall (c) mining (d) all of these.
- viii) Which seismic zone is most sever in India? _____
 (a) Zone I (b) Zone II (c) Zone IV (d) Zone V
- ix) In earthquake _____ types of waves reaches to the seismic station first.
 (a) P (b) S (c) W (d) V
- x) Lowest Layer of atmosphere is called
 a) Thermosphere b) Stratosphere c) Troposphere d) Mesosphere

- xi) The chairperson of NDMA in India is _____
 (a) Prime Minister (b) President (c) Chief Minister (d) Home Minister
- xii) Of the following, which is not a natural disaster _____
 (a) Nuclear explosion (b) Deforestation (c) Forest fire (d) Lightning
- xiii) World Environment day is celebrated every year on
 5th June b) 18th July c) 22nd April d) 31st May
- xiv) In which layer of atmosphere the temperature increase as the altitude increase
 a) Troposphere b) Mesosphere c) Stratosphere d) Exosphere
- xv) Environmental Education should be imparted only at
 a) Secondary school stage b) Primary school stage c) College stage d) All stages
- xvi) Of the following, which is not a manmade disaster _____
 (a) Nuclear explosion (b) Deforestation (c) Terrorist attack (d) Hiroshima Nagasaki disaster
- xvii) Atmosphere has following major constituents
 a) Nitrogen, Oxygen and Argon b) Carbon dioxide and Nitrogen
 c) Ozone, Methane and Nitrogen d) Nitrogen, Ozone and Oxygen
- xviii) Lithosphere means
 a) Plants b) Vegetation c) Outer earth crust/ soil d) Water
- xix) Hydrosphere includes
 a) Animals b) Soil c) Plants d) Water bodies
- xx) Area of land, water and air where the life exists is called
 a) Biosphere b) Lithosphere c) Atmosphere d) Hydrosphere

Q.2

A) Define the following (Any five out of seven questions) (05)

- (1) Enlist biological resources.
- (2) Define ecosystem.
- (3) Write examples of ecosystem.
- (4) Define focus.
- (5) Define disaster.
- (6) Define hazard.
- (7) Define Richter scale.

B) Answer the following (Any five out of seven questions) (05)

- (1) Define non renewable sources.
- (2) Define ecology.
- (3) Define epicenter.
- (4) Define Environmental Science.
- (5) Define capacity development.
- (6) Name the gas that is responsible for casualties in "Bhopal gas tragedy".
- (7) Define renewable sources.

Q.3 Write Short notes (Any five out of six questions) (10)

- (1) Classify ecology as per different form.
- (2) Define marine pollution.
- (3) Discuss function of ecosystem.
- (4) Enlist different types of landslides.
- (5) Sketch the cycle of disaster management.
- (6) Define population density.

Q.4 Long Questions (Any three out of four questions) (15)

- (1) Explain Ozone layer depletion.
- (2) Explain causes and effects of global warming.
- (3) Define early warning system (EWS). Explain early warning system for flood and earthquake.
- (4) Explain water cycle with diagram.