

P P SAVANI UNIVERSITY

Second Semester of B. Tech. Examination
May 2019

SECV1050 Global Environmental Challenges & Management

23.05.2019, Thursday

Time: 12:30 p.m. To 3:00 p.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.

SECTION - I

- Q - 1 Answer the following. [05]
- (i) Stratosphere contains an important gas which protects life on Earth is _____.
(a) Oxygen (b) Ozone (c) Nitrogen (d) Hydrogen
- (ii) What is nitrogen fixation?
- (iii) Draw a Detritus food chain.
- (iv) What are polar and non-polar molecules?
- (v) What is dipole moment?
- Q - 2 (a) What are parts of Atmosphere? [02]
- Q - 2 (b) How can an individual help conserve forests? [03]
- Q - 3 Draw a simple flow diagram for Carbon Cycle. [05]

OR

- Q - 3 Mention the human activities that affect the Carbon cycle. [05]
- Q - 4 How can e-waste be used to conserve forests? What are its possible challenges? [05]
- Q - 5 Mention the factors that affect the availability of food. [05]
- Q - 6 What are the environmental problems associated with setting up and running a nuclear power plant? [05]
- Q - 6 What is acid rain? What are its harmful effects? [05]

SECTION - II

- Q - 1 Answer the following. [10]
- (i) What are PM10 and PM2.5?
- (ii) Give examples of Natural Sources of Air pollution.
- (iii) What are the causes of population explosion?
- (iv) Mention the causes of floods.
- (v) Mention three essential components required for fire.
- Q - 2 What is a tetrapod? Why are they used? [03]
- Q - 3 Explain the factors that affect the availability of food. [05]
- Q - 3 What is Malthusian theory of Population? Criticize this theory. [05]
- Q - 4 How is coffee production adversely affecting the environment? [06]
- Q - 4 Explain the causes for rampant water pollution because of industries. [06]
- Q - 5 What are the precautionary measures that can be taken against a tornado? [06]
