

**GUJARAT NATIONAL LAW UNIVERSITY
GANDHINAGAR**

Course: **Environmental Science**
Semester-I (Batch: 2018-23)

End Semester Examination: Oct-Nov. 2018

Date: 29th October, 2018

Duration: 2 hours

Max. Marks: 40

Instructions:

- Read the questions properly and write the answers in the given answer book.
- The respective marks for each question are indicated in line.
- Do not write anything on the question paper.
- Indicate correct question numbers in front of the answers.
- No questions or clarifications can be sought during the exam period, answer as it is, giving reason, if any.

Answer the following:

Marks

- Q.1 A firm plans to set up a factory to manufacture herbal products in India, however are not having an idea on several environmental aspects. To give an eco-friendly look to the plant, the firm also decided to harness solar energy. The aspects on which it wants to have an idea are listed below, answer the queries: (1+1+1+2=05)
- (a) What is Polluter Pays Principle?
 - (b) What is standing crop in food chain and it is expressed in terms of which parameters?
 - (c) Write one advantage and one disadvantage of Concentrating Collector over Flat-Plate type Collector.
 - (d) Write any two main objectives of the Air (Prevention and Control of Pollution) Act, 1981.
- Q.2 'X' is a photographer and has very much interest in clicking the pictures of various places that are rich in biodiversity. Prior information of certain things will help 'X' in determining the proper places to visit to click the best pictures. Answers to the following questions are required by 'X' to chalk out the list of places: (3+2=05)
- (a) The names and explanation of the three fundamental hierarchically related levels of biological organisms, in terms of which the biodiversity is generally described.
 - (b) What are hotspots of biodiversity? Give two examples present in India.
- Q.3 'Y Public Limited' is a Public Sector Undertaking set up in 1950 and has been ensuring that all the environmental norms laid down by the Government are being followed by it. The company plans to have an environmental audit conducted in the year 2018 and accordingly plans to have an Audit Team. (3+2=05)
- (a) You being a member of the Audit Team, explain your remaining colleagues about the three categories of information and assessment activities in environmental audit.
 - (b) Also explain four points of difference between the environmental review and environmental audit.
- Q.4 The Government of India planned to send an official to represent the country in a conference on Climate Change. Since the official has recently taken up the charge and is not aware of the details, answer the following questions so as to enable the official understand certain basics related to Climate Change: (1+1+3=05)

- (a) Explain any two statistical parameters used in the study of climate.
- (b) Explain the difference between weather and climate.
- (c) Explain about three factors responsible for influencing the characteristics of 'atmosphere component' of the climate system.
- Q.5 The owner of a company in order to understand whether the company is contributing towards the Sustainable Development goal of India or not, requires details of any six parameters that are used for measuring the Environmental Performance of a manufacturing organization. Prepare a note to help the owner by providing information on the parameters and explain in brief about them. (03)
- Q.6 A village is located 'x' km away from Gandhinagar and has only one lake as its water source. The water from the lake on being tested showed alarming results of contamination. Inform the villagers about any six sources of water pollution so that it helps them identify the source of contaminants and how that might have caused pollution in the lake. (03)
- Q.7 'A' is working in a Metrological Department. The Department asked him to warn the people residing in the villages about various types of flood in view of the prediction of changed climatic conditions. Prepare a note on the various types of floods so as to facilitate the official. (03)
- Q.8 A newly established hospital, in order to follow the guideline on disposal of biomedical waste requires certain information. Advise the hospital by providing the information on any three colour code and related type of container and treatment options that can be used for the disposal of biomedical wastes. (03)
- Q.9 'M' got a job in the Municipal Corporation of the City. The task assigned to 'M' was to ensure proper disposal of the solid waste materials. In order to do so, 'M' thought to get the waste collected classified on the basis of the source. Prepare a report on any six classes of source of solid waste which can help in enhancing the knowledge of 'M'. (03)
- Q.10 An individual, after completing the college, plans to use the support provided by the Government to start-up activities and intends to set up a factory of his own. Advise him by providing the information on at least ten steps involved in the Environmental Impact Assessment process. (05)
