

GREENLAWNS SCHOOL, WORLI
FINAL EXAMINATION 2016-17
ENVIRONMENTAL SCIENCE

STD – V
DATE: 20.02.17

MARKS 80
TIME: 1½ Hrs

ALL QUESTIONS ARE COMPULSORY

QUESTION 1

- Define: (5)
- a) Ecology [1]
 - b) Oesophagus [1]
 - c) Dawn [1]
 - d) Heritage buildings [2]

QUESTION 2

- Name the following: (Write only answers) (10)
- a) The term used for harmful substances polluting the environment. [½]
 - b) This organ secretes bile juice. [½]
 - c) The elliptical path on which the Earth revolves. [½]
 - d) The term used for objects that allow partial light to pass through them. [½]
 - e) Two American astronauts to have first landed on the Moon. [2]
 - f) The term used for harbour waves. [½]
 - g) Two other names Sardar Patel is acknowledged by. [1]
 - h) Three famous Indian buildings that have been included in UNESCO World Heritage list. [1½]
 - i) The policy under which Lord Dalhousie decided to add Jhansi to his territory. [1]
 - j) The body that declares any building as a Heritage property. [1]
 - k) Two structures inside the Golconda fort. [1]

QUESTION 3

- Fill in the blanks with appropriate words. Write only answers. (10)
- a) If _____ continues, it will disturb the Earth's environment and harm life on the Earth. [1]
 - b) The _____ is a flexible _____ structure in the form of the letter 'J'. [1]
 - c) The _____ of the source of light from the object affects the _____ of the _____. [1½]
 - d) Intensity of an earthquake is measured on a _____. [1]
 - e) The Taj Mahal was completed in _____ at a cost of rupees _____. [1]
 - f) The Sun Temple is also known as _____ and was built during the reign of King _____. [1½]
 - g) The moon is the Earth's _____. [1]
 - h) When _____ is stopped by an object, a _____ is formed. [1]
 - i) _____ conducted experiments to study the process of human digestion. [1]

QUESTION 4

- Give reasons for the following: (13)
- a) The Taj Mahal is losing its colour. [2]
 - b) Our stomach grows when we are hungry. [1]
 - c) Mercury takes only 88 Earth days to complete one revolution. [1]

- d) The Sun is a hot fiery object. [2]
- e) Telephones/mobile phones should not be used during an earthquake unless it is an emergency. [2]
- f) Raja Rammohan Roy is regarded as one of the most important figures for his contributions to the society. [3]
- g) Our monuments reflect a blend of different cultures. [2]

QUESTION 5

State whether the following statements are true or false. If false, rewrite the correct statement. (5)

- a) Bio-degradable waste must be disposed off properly to keep the environment clean.
- b) Japan is also known as the Land of Midnight Sun.
- c) A solar eclipse occurs during a full moon night.
- d) If the tectonic plates collide against each other, an earthquake occurs.
- e) Annie Besant supported birth control in England.
- f) Restoration means maintenance of a building and artefact to prevent further deterioration.

QUESTION 6

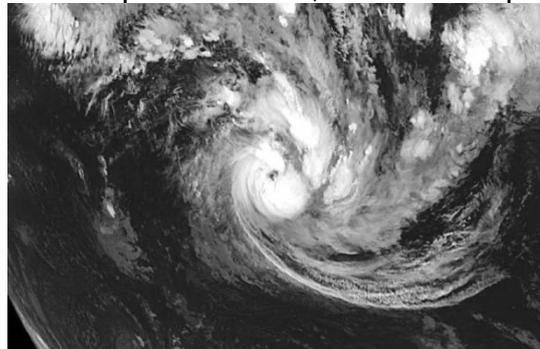
Answer the following questions:

- a) What are the consequences of drinking polluted water? [2]
- b) How can afforestation help to reduce air pollution? [1½]
- c) Explain the calculation of a leap year. [2]
- d) Explain with a suitable diagram the role of the Earth in a lunar eclipse. [3½]
- e) If an earthquake strikes, how should one tackle with it staying at home? [3]
- f) What is the literal meaning of 'Jantar Mantar'? Name one astronomical instrument found in this observatory and mention its use. [3]
- g) Mention the most significant features of the Golconda Fort. [2]

QUESTION 7

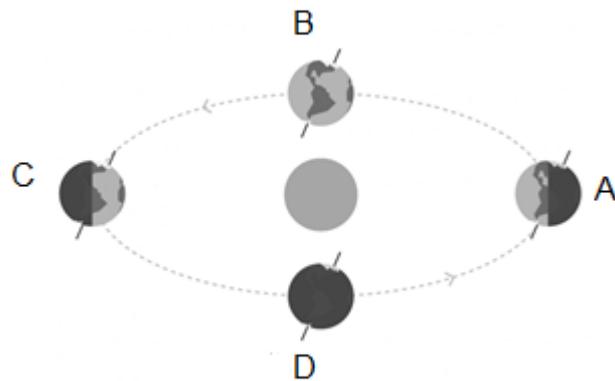
Picture Study:

- a) With reference to the picture below, answer the questions that follow: (7½)



- i) Identify and define the natural disaster. [2]
- ii) List the effects of the said disaster. [3½]
- iii) How does the Government forewarn its citizens against this disaster? [2]

b) With reference to the diagram given below, answer the questions that follow: (4½)



- i) Name the phenomenon experienced at position B in the Northern Hemisphere. Which season does the said region have at this time? [1]
- ii) At which position will the Earth be on December 22? What is the duration of the day in the Northern Hemisphere during this time of the year? [1½]
- iii) Which words mean the following : The Sun stands still, Equal Nights [1]
- iv) On which date does the Earth come to position C? Name the season experienced in the Southern Hemisphere on this date. [1]

QUESTION 8

Mapwork (8)

In the given outline map of India, mark, shade and label the following: (All the labellings have to be done horizontally and by wise use of arrows to avoid overcrowding in the map)

- a) The state where the Sun temple is situated. [1]
- b) The state located on the western side of India where a Jantar Mantar can be found. [1]
- c) The state the Golconda Fort belongs to. [1]
- d) The northern most state. [1]
- e) The state of Meenakshi Temple. [1]
- f) The cluster of islands in the Arabian Sea. [1]
- g) The waterbody which touches Kolkata. [1]
- h) The capital of India. [1]
