FACULTY OF ENGINEERING

B.E. I - Semester (AICTE) (Backlog) Examination, November 2021

Subject: Environmental Science

Time: 2 Hours Max. Marks: 70

Note: i) First Question is compulsory and answer any three questions from the remaining six questions.

- ii) Answers to each question must be written at one place only and in the same order as they occur in the question paper.
- iii) Missing data, if any, may suitably be assumed.

PART - A

Note: Answer any four questions.

(4x4 = 16 Marks)

- 1 a Define Desertification.
 - b What is Eutrophication?
 - c What is meant by food-web?
 - d Mention the levels of Biodiversity.
 - e Enumerate various methods for control of air pollution.
 - f State the types of disaster.
 - g What is global warming?

(3x18 = 54 Marks)

- 2 (a) Discuss various ill effects of modern agriculture.
 - (b) What are the benefits and problems of dam?
- 3 (a) Describe Ecological Pyramid. Explain different types of ecological pyramid.
 - (b) Explain Forest ecosystem.
- 4 (a) Illustrate conservation of Biodiversity.
 - (b) Briefly explain the values of biodiversity.
- 5 (a) Discuss adverse effects and control of water pollution.
 - (b) Describe about wild Life protection Act.
- 6 (a) Elaborate about Ozone layer depletion.
 - (b) Describe methodology for disaster management.
- 7 (a) Write short note on Acid rains.
 - (b) Differentiate conventional and non-conventional sources of energy.

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(Missing data, if any, may be suitably assumed)

PART - A

Note: Answer any five questions.

(5x2 = 10 Marks)

- 1. Explain the relation between conservation and sustainable development.
- 2. Describe types of food chain.
- 3. What is meant by endangered and endemic species?
- 4. What is the thermal pollution?
- 5. What are greenhouse gases?
- 6. "Rain water harvesting could be possible option for water conservation". Examine.
- 7. Why is it necessary to enact environmental laws?
- 8. What do you mean by water logging? Discuss main reasons of water logging.
- 9. What is bio-magnification?
- 10. List the characteristics of hazardous wastes.

PART - B

Note: Answer any four questions.

(4x15 = 60 Marks)

- 11.a) Why the applications of chemical pesticides and fertilizers are being discouraged?
 - b) What is deforestation? Explain its causes and effects.
- 12. Explain the following a) Producers, b) Consumers, c) Decomposers and d) Food web.
- 13. Write the measures to be taken to prevent depletion of groundwater resources.
- 14. Discuss the growing energy needs of our country. Critically examine various sources of clean energy. Discuss about solar energy.
- 15. What is ozone hole? What are the causes of ozone hole formation. Discuss the effects of ozone layer depletion and its remedial measures.
- 16.a) Write the salient features of environmental protection Act,1986
 - b) Write a note on solid waste management.
- 17.a) Write about environmental ethics and state its significance in promoting the environmental awareness.
 - b) Write briefly about the scope of environmental studies.

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Code No: 14007 /CBCS/BL

FACULTY OF ENGINEERING

BE I-Year (CBCS) (Backlog) Examination, November 2021

Subject: Engineering Graphics

Time: 2 Hours Max marks: 100

Missing data, if any, may be suitably assumed

PART - A

Note: Answers any Six questions.

(6x6=36 Marks)

- 1. Construct a heptagon of side 25mm.
- 2. Compare plain and diagonal planes
- 3. Why 2nd and 4th angle projections are not allowed?
- State the quadrants of the following points:
 In front of VP, below HP
 Behind VP, above HP
- 5. Define Prism, pyramid and differentiate them.
- 6. What is frustum of a solid?
- 7. What are the uses of development of surfaces?
- 8. What is meant by true shape of a section?
- 9. Draw the Isometric view of a circle with its surface parallel to HP using
 - a. Method of points
- b. Four centres method
- 10. Name the methods of obtaining the line of intersection.

PART - B

Note: Answers any Four questions.

(4x16=64 Marks)

- 11. Draw the diagonal scale R.F is 3/100, showing meters, decimetres and centimetres and to measure up to 5 meters. Show the length of 3.69 meters on it.
- 12. Draw the projections of a line AB, 90 mm long, its mid-point M being 50 mm above the H.P. and 40 mm in front of the V.P. the end A is 20 mm above the H.P and 10 mm in front of V.P Show the traces and inclinations of the line with H.P. and V.P.
- 13.A 60° set square of 125 mm longest side is so kept that the longest side is in the H.P. making an angle of 30° with the V.P. and the set square itself inclined at 45° to the H.P. Draw the projections of set-square.

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- 14. Draw the projections of a square pyramid having one of its triangular faces in the V.P. and the axis parallel to and 40 mm above the H.P. Base 300 side; axis 75 mm long.
- 15. A square prism base 40 mm side axis 80 mm long has its base on the H.P. and its faces equally inclined to the V.P. It is cut by a plane, perpendicular to the V.P. inclined at 60° to the H.P. and passing through a point on the axis, 55 mm above the H.P. Draw its front view, sectional top view and another top view on an A.I.P parallel to the section plane.
- 16. Draw locus of a point on the periphery of a circle which rolls from the inside of a curved path. Take diameter of rolling circle 50 mm and radius of directing circle (curved path) 75 mm.
- 17. The following figure shows the isometric projection of an object. Draw the ortho graphic projections.

