Saraswat Education Society's
Sridora Caculo College of Commerce and Management Studies, Mapusa-Goa
B.C.A. Semester I End Examination, October/November 2026

VAC-100: ENVIRONMENTAL STUDIES I

Duration: 1 Hour **Total Marks:** 40

Instructions:

1) *All questions are compulsory.*
2) *Internal choice is provided only in Part A of Q.2–Q.5.*
3) *Figures to the right indicate full marks.*

Q.1. Answer the following questions: **(4×2=8)**

a) Define genetic diversity and species diversity.

b) List any two renewable and any two non-renewable sources of energy.

c) State any four uses of forest resources.

d) Name the four biodiversity hotspots that include parts of India.

Q.2.A) i) State any three benefits of dams. **(3)**

OR

Q.2.A) i) List any three causes of human-induced landslides. **(3)**

Q.2.B) Name any three factors responsible for increasing energy demand. **(3)**

Q.2.C) List any four human activities that are responsible for biodiversity loss. **(2)**

Q.3.A) i) Explain any three effects of modern agriculture on the environment. **(3)**

OR

Q.3.A) i) Explain any three ways in which mining damages the environment. **(3)**

Q.3.B) Describe any three environmental problems associated with the use of fossil fuels. **(3)**

Q.3.C) Describe any two environmental effects of deforestation. **(2)**

Q.4.A) i) Explain why energy flow in an ecosystem is unidirectional. **(3)**

OR

Q.4.A) i) Explain primary ecological succession on a newly exposed bare rock surface. **(3)**

Q.4.B) Distinguish between a grazing food chain and a detritus food chain using three points. **(3)**

Q.4.C) Describe any two types of ecological pyramids. **(2)**

Q.5.A) i) A threatened plant species cannot survive in its damaged natural habitat. Name the conservation approach used and suggest two methods of conserving it outside its natural habitat. **(3)**

OR

Q.5.A) i) A pond receives sewage and plastic waste from nearby houses. Suggest three practical measures to protect its aquatic biodiversity. **(3)**

Q.5.B) Classify each of the following as a producer, consumer or decomposer, and give a reason for each classification: (i) grass, (ii) deer and (iii) a mushroom growing on decaying wood. **(3)**

Q.5.C) Suggest two energy-saving practices that you can adopt in your daily routine. **(2)**
