

B.Tech 8th Semester Exam., 2021

SUSTAINABLE DEVELOPMENT

Time : 3 hours

Full Marks : 70

Instructions :

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.

1. Answer any seven of the following as directed : 2×7=14

(a) What is desalination?

(b) Write down the advantages and disadvantages of using petroleum as a fuel.

(c) What are three pillars of sustainable development?

(d) What are the primary goals of sustainability?

(e) What is greenhouse effect?

(f) What is the objective of green energy corridor?

(g) What is the meaning of proverb 'think globally, act locally' in relation to environmental problems?

(h) What are the different layers of atmosphere?

(i) What do you understand by Food Web?

(j) Which of the following is not an objective of sustainable development?

(i) Continue to implement the family planning program

(ii) Maintain a dynamic balance of arable land (not less than 123 million hectares) and implement an agricultural development strategy

(iii) Maintain a dynamic balance of water resources by reducing water consumption for every unit of gross development product growth and agricultural value-added

(iv) To bring about a gradual and sometimes catastrophic transformation of the environment

(Choose the correct option)

- 2. (a) Name some organizations active in international trade and sustainable development. Discuss their interests and activities. 7
- (b) What is the contribution of trade towards sustainable development? Explain with the help of examples. 7
- 3. Discuss the effects of trade policy on environment and sustainable development. Is free trade good or bad for the environment? Share your point of view along with examples. <https://www.akubihar.com> 14
- 4. (a) Explain the causes of unsustainable development. How can unsustainable development be converted to sustainable development? 7
- (b) What are sustainable development goals? 7
- 5. (a) What is the relationship between environmental conservation activities and the constituent elements of environmental accounting? 7
- (b) Explain how trading companies are responding to environmental accounting. 7

- 6. (a) How can sustainable development be evaluated? Explain with steps involved. 7
- (b) What are different components of ecosystem? 7
- 7. (a) Explain the environmental conservation cost and benefit. 7
- (b) What should be done for environmental accounting data which cannot be expressed in terms of physical units or monetary value? Also explain the association between benefits in physical units and those expressed in monetary value. 7
- 8. (a) List different global environmental changes. Discuss the causes and effects of these global changes. 7
- (b) Describe the impact of mangrove forests degradation on biodiversity and ecosystem functioning. 7
- 9. (a) Discuss the role of economics in analyzing the environment and sustainable development. 7
- (b) Explain the concept of sustainable development and discuss the environmental, economic and social aspects of sustainable development. 7