

(A-42) SARDAR PATEL UNIVERSITY

M. Sc Integrated Biotechnology (ENVIRONMENTAL BIOTECHNOLOGY) -TEN (10) Semester Examination

Tuesday, 21- 04 - 2015, Time: 10:30 am to 01:30 pm

COURSE NUMBER-PS10CIGEB.1NAME OF COURSE – ENVIRONMENTAL CONSERVATION AND SUSTAINABLE DEVELOPMENT

Maximum Marks: 70

Note: (1) All questions are compulsory. (2) Figure to right indicate marks.

Q.1 Choose the most appropriate answer from the four alternatives givens. [8]

1. Indian wildlife act amendment-1996-CPCSEA recommended that the testing ofon animals are optional.

(A) Cosmetics (B) Herbal product (C) Clinical research (D) Dissection

2. Wetlands constitute 18.4% of the country's area of whichis under paddy cultivation.

(A)60% (B)70% (C)80% (D)75%

3.of the world's forest are managed for wood production.

(A)Five-quarter (B) Three-quarter (C)One-quarter (D) Two-quarter

4. Forest play vital ecological roles in

(A)Agriculture crop (B)Conservation forest (C)Protection forest (D)Regulating climate

5.are naturally replenished and recycled at a fairly steady rate.

(A)Renewable resources (B) Waste material (C)Natural Product (D)None of them

6. Green business works because..... are becoming aware of the ecological consequences of their purchases.

(A)Producer (B) Consumer (C) Both A and B (D) None of them

7. Economic development as an indicator of sustainable development for core indicator is.....

(A)Employment (B)GNI ratio (C)GDP per capita (D)Investment in share

8. "Closed-loop" production seeks to integrate the presentlyback into production.

(A)Product (B)Material (C)Resource (D)Waste

Q.2 Answer the following (Any Seven). [14]

1. What are the salient features of forest conservation Act.1980?

2. What are the restrictions on activities within the notified wetlands prohibited?

3. Define Rapid Forest Assessment (RFA) and its application.

4. Write the effect of overgrazing.

5. Write the difference between Nonrenewable resources and Renewable resources.

6. Which push factor responsible for immigration to cities?

7. Write the principles for sustainable business.

8. What are the focal areas of industrial ecology?

9. Write the clean development mechanism (CDM) challenges.

Q.3 A. Write the objective, Applicability, major stakeholders and Salient features of E-Waste (Management and Handling) Rules, 2011. [6]

B. Write the salient features of the Plastics Manufacture, Sale and Usage Rules, 2011. [6]

OR

B. Define the biodiversity as per the Biological Diversity Act, 2002. Discuss the powers and functions of national and state Biodiversity Authority. [6]

Q.4 A. Discuss the problems and threats from inside and outside national parks and preserves. [6]

B. Enlist the cause of deforestation. Explain the any three causes of deforestation. [6]

OR

B. Why is the reintroduction of wolves into Yellowstone National Park a controversial issue? [6]

Q.5 A. Write a short note on Neoclassical Economics. [6]

B. Define the Push and Pull factors of Urban Growth. Discuss the causes of the urban Growth. [6]

OR

B. What changes in urbanization are predicated to occur in the next 50 years, and where will those changes occur? [6]

Q.6 A. What are the sustainable development indicators? Discuss any three indicators of sustainable development. [6]

B. Define the cleaner production (CP). How cleaner production could be applied in practice? [6]

OR

B. Discuss the regulatory versus market based approaches. [6]