

NPTEL COURSE: Environment Impact Assessment (EIA)

WEEK-9 ASSIGNMENT- 9

Each question carries equal marks-2

Total Nos. of Questions-10

Total Marks-20

1. State True or False: Priority ecosystems are those for which changes due to a project are most likely to affect the well-being of the beneficiaries Because they depend on them to great Extent and have limited alternatives.

- a) True
- b) False

Correct Answer: a) True

2. State True or False: InVEST (Integrated Valuation of Environmental Services and Tradeoffs) is a suite model used to map and value natural goods and services that sustain and fulfill human life. It helps explore how changes in ecosystems can lead to changes in the flow of many different benefits to people.

- c) True
- d) False

Correct Answer: a) True

3. The important material information, required for EIA purposes are:

- I Geology of the coastal zones (offshore as well as onshore including rock and softer
- II Topography and bathymetry (underwater topography), and the type (mud, sand, gravel)
- III Distribution of mobile and non-mobile sediments

Answers

- a) I, III, only
- b) II, I, only
- c) II, III only
- d) I, II, III

Correct Answer: d) I, II, III

4. Benthic (Seabed) habitats communities exhibit appreciable variations due to:

- I Sustainable type
- II Variation in water movement
- III Differences in salinity and turbidity and Social Impact Assessment
- IV Temperature and water clarity
- V Geothermal activity

Answers

- a) I, III, IV, II only
- b) II, I, V, IV only
- c) II, III, IV, V only
- d) I, II, III, IV, V

Correct Answer: d) I, II, III, IV, V

5. The Impact of Urban Development are:

- I Run-Off
- II Soil Erosion
- III Nutrients and toxic pollutant loadings in estuaries and marine water (bioaccumulation, eutrophication)

Answer

- a) I, III, only
- b) II, I, only
- c) I, II, III
- d) I, II, only

Correct Answer: c) I, II, III

6. Impacts associated with dredging and disposal of dredged material include:

- I Increase in turbidity during works-acute physiological responses in some organisms
- II Possible release of toxins and nutrients-Toxicity or eutrophication problems
- III Physical damage to the dredged/disposal site, and associated habitat loss or disruption
- IV Problems with released material
- V Deepening of inshore waters-risk of shoreline erosion

Answer

- a) I, III, IV, V only
- b) II, I, V, IV only
- c) I, II, III, IV, V
- d) I, II, III, IV only

Correct Answer: c) I, II, III, IV, V

7. Match the following:

P	Noise	I	Revolves around the notion of quantifying and objectifying people's personal and subjective responses
Q	Noise Impact Assessment	II	Refers to how quickly the air vibrates, or how close the sound waves are to each other (in cycles per sec. or Hertz (Hz))
R	Sound Frequency	III	The lowest frequency audible to humans is approximately 20Hz and the highest is 20,000Hz

S	Audible Frequency	IV	Is essentially an unwanted sound
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Answers:

- a) P-I, Q-II, R-III, S-IV
- b) P-II, Q-III, R-IV, S-I
- c) P-IV, Q-III, R-II, S-I
- d) P-IV, Q-I, R-II, S-III

Correct Answer: d) P-IV, Q-I, R-II, S-III

8. Factors influencing Noise Impacts are:

- I Level of Sound
- II Context of Location
- III Distance from a sound Source
- IV Presence of Obstruction-example: building and trees

Answers

- a) I, III, IV, only
- b) II, I, IV, only
- c) I, II, III, IV
- d) I, II, III, only

Correct Answer: c) I, II, III, IV

9. On Rail and Tramway networks, the pertinent factors are:

- I Line capacity (single or dual)
- II Station capacity (Stairwell, platform width, etc.)
- III Platform length
- IV Rolling stock passenger capacity

Answers

- a) I, III, IV, only
- b) II, I, IV, only
- c) I, II, III, IV
- d) I, II, III, only

Correct Answer: c) I, II, III, IV

10. Considerations for the development of cycling and walking facilities include:

- I Pavement/sidewalk width
- II Network standards
- III Destinations
- IV Incorporation of existing routes

Answers

- a) I, III, IV, only
- b) II, I, IV, only
- c) I, II, III, IV
- d) I, II, III, only

Correct Answer: c) I, II, III, IV