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Reg. No. :

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Question Paper Code: 59171

B.E./B.Tech. DEGREE EXAMINATION, MAY 2022

Open Elective

Computer Science Engineering

15UCE973-ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT

(Common to ECE, EEE, EIE, Mechanical ,IT, Chemical and bio medical engineering)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 1 = 10 Marks)

1. The effects due to human activity on environment are CO1- R
 - (a) Natural effects
 - (b) Anthropogenic Effects
 - (c) Mitigative Effects
 - (d) None of the above
2. Which organization monitors the pollution levels and standards in Universal level? CO1- R
 - (a) SPCB's
 - (b) WHO
 - (c) MoEF
 - (d) WPA
3. Primary data for baseline studies is collected by CO2- R
 - (a) reports
 - (b) sampling and analyses
 - (c) references
 - (d) None of the above
4. Modelling plays an important role in process CO2- R
 - (a) Screening
 - (b) Decision making
 - (c) Abstracting
 - (d) Scoping
5. Biosphere reserves are developed to take care of CO3- R
 - (a) Noise pollution
 - (b) flora and fauna
 - (c) visual resources
 - (d) power source
6. Sound intensity is measured in CO3- R
 - (a) Watts
 - (b) Joules
 - (c) Power
 - (d) decibels
7. The impacts that relates to population and its characteristics are CO4- R
 - (a) cultural impacts
 - (b) demographic impacts
 - (c) community impacts
 - (d) all the above

8. Maintenance stage is observed during CO4- R
 (a) Construction phase (b) planning phase
 (c) execution phase (d) none
9. Upstream area of a dam includes CO5- R
 (a) catchment area (b) canal area
 (c) estuary area (d) None
10. Shifting of people from a place to another is CO5- R
 (a) Rehabilitation (b) shifting (c) mitigation (d) resettlement

PART – B (5 x 2= 10Marks)

11. What are the impacts of overpopulation? CO1- R
12. How to assess the impacts in water environment? CO2- R
13. What are the options to mitigate noise pollution in industries? CO3- R
14. Why public hearing is vital in EIA? CO4- R
15. What is CHWMF? CO5- R

PART – C (5 x 16= 80Marks)

16. (a) Explain in detail about impacts of development on environment. CO1 -App (16)
 Or
 (b) Write about terms of references with its necessary contents. CO1- App (16)
17. (a) Explain in detail about Network system and Overlays system CO2- App (16)
 Or
 (b) How can we predict the impacts in biological system using conceptual models? CO2 -Ana (16)
18. (a) Explain in detail about the different approaches in mitigation. CO3 -Ana (16)
 Or
 (b) Explain in detail about the different types of environmental monitoring program. CO3- Ana (16)

19. (a) How can we predict Social Impacts of a project? Also mention about cultural issues involved. CO4 -U (16)
- Or
- (b) Explain in detail about the simple valuation method CO4- Ana (16)
20. (a) It is proposed to lay a National Highway to connect two state capitals. What will be the beneficial, detrimental, direct, indirect, short term, long term, single and cumulative impacts? List any four effects under each type of impacts and describe CO5- U (16)
- Or
- (b) What are the significant environmental issues to be considered while planning to develop a New Township CO5- U (16)

