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Reg. No. :

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**Question Paper Code: 59173**

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

Open Elective

Computer Science Engineering

15UCE973-ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT

(Common to CSE,ECE,EEE,EIE, Mechanical, IT, Chemical, Agriculture and biomedical Engineering)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 1 = 10 Marks)

1. The situation where resource use has outpaced the sustainable capacity of the ecosystem is \_\_\_\_\_ CO1- U  
(a) Sustainable use (b) Over consumption  
(c) Over Population (d) None of these
2. The stage that presents the results of EIA process is CO1- U  
(a) Scoping (b) Screening (c) Mitigation (d) Sectoring
3. Primary data for baseline studies is collected by \_\_\_\_\_ CO2- U  
(a) reports (b) sampling and analyses  
(c) references (d) None of the above
4. Which presentation has a better structure framework? CO2- U  
(a) Matrix (b) checklist (c) networks (d) adhoc
5. The most effective process applied at early stage of project planning is CO3- R  
(a) impact minimization (b) impact avoidance  
(c) impact compensation (d) None
6. Biosphere reserves are developed to take care of CO3- R  
(a) Noise pollution (b) flora and fauna (c) visual resources (d) power source

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. The process of evaluating project by independent body, with CO4- R  
 transparency system is  
 (a) External evaluation (b) internal valuation  
 (c) mitigation (d) All the above
9. Upstream area of a dam includes CO5- R  
 (a) Catchment areas (b) canal area  
 (c) estuary area (d) None of the above
10. Which of the following is long term effect? CO5- R  
 (a) increase in noise due to automobiles (b) Temporary disruption of drainage  
 (c) visual problem due to dust (d) surface and subsurface pollution

PART – B (5 x 2= 10Marks)

11. What are the impacts of development on human health? CO1- R
12. What are the advantages of Matrix method?. CO2- R
13. What are the options to mitigate noise pollution in industries? CO3- R
14. Mention the different techniques available for public participation. CO4- R
15. List any four impacts caused by dam projects CO5- R

PART – C (5 x 16= 80Marks)

16. (a) Explain in detail about impacts of development on environment CO1 -U (16)  
 Or  
 (b) With a neat flow chart, explain the steps in EIA process. CO1- U (16)
17. (a) What is check list method? Explain the different types of check CO2- U (16)  
 lists with its advantages and disadvantages.  
 Or  
 (b) With the help of a model explain the cause effect network process CO2 -U (16)  
 for predicting water quality.
18. (a) Write the mitigation measures for reducing the impacts on water CO3 -U (16)  
 quality and Land disturbances.

Or

- (b) Explain in detail about environmental audit process with its procedure CO3- U (16)
19. (a) Explain in detail about the different techniques for assessing the socio-economic impacts. CO4 -U (16)
- Or
- (b) With the help of a flow chart explain about the simple valuation method. CO4- U (16)
20. (a) (i) What are the significant environmental issues to be considered while planning to develop a New Township? CO5- U (8)
- (ii) Compare potential Environmental impacts of different alternatives for Energy generation CO5- U (8)
- Or
- (b) 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? CO5- U (16)

