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Question Paper Code: 99405

B.E. / B.Tech DEGREE EXAMINATION, NOV 2023

Elective

Civil Engineering

19UCE905 Environmental Impact Assessment

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. What is essential in an EIA? CO1- U
 - (a) that it allows decision makers to assess a project's impacts in all its phases
 - (b) that it allows the public and other stakeholders to present their views and inputs on the planned development
 - (c) that it contributes to and improve the project design, so that environmental as well as socioeconomic measures are core parts of it
 - (d) All of the above
2. EIA is study of probable change in socio economic and ----- CO1- U
characteristics of environment due to proposed action.
 - (a) biophysical
 - (b) geological
 - (c) hydrological
 - (d) Potential
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. Modelling plays an important role in process. CO2- U
 - (a) Screening
 - (b) Decision making
 - (c) Abstracting
 - (d) Scoping
5. By which of the methods, public can be involved in Impact assessment CO3- U
 - (a) One-way talks
 - (b) Interactions
 - (c) Manipulations
 - (d) All the above

6. Sound intensity is measured in CO3- U
 (a) Watts (b) Joules (c) Power (d) decibels
7. The impacts that relates to population and its characteristics are CO4- U
 (a) cultural impacts (b) demographic impacts
 (c) community impacts (d) All the above
8. The public hearing should be finished within CO4- U
 (a) 100 days (b) 45 days (c) 30 days (d) 60 days
9. The largest dam in the world is CO5- U
 (a) Hirakud dam (b) Three gorges dam
 (c) Mullai periyar dam (d) Idukki dam
10. How are suspended solids removed from the soil? CO5- U
 (a) Soil adsorption (b) Bacterial oxidation
 (c) Filtration (d) Chemical immobilization

PART – B (5 x 2= 10 Marks)

11. Enlist the steps involved in EIA process in order. CO2- U
12. Mention some activities that impact the Wildlife. CO3- U
13. Do you know the options to mitigate noise pollution in industries? CO3- App
14. Why public hearing is vital in EIA? CO5- Ana
15. Enlist the possible impacts of Mining projects. CO2- App

PART – C (5 x 16= 80 Marks)

16. (a) With a neat flow chart, explain the steps in EIA process. CO1- U (16)
 Or
 (b) Write in detail about EIA framework and legislation CO1- U (16)
17. (a) Explain in detail about the different techniques for assessing the environmental impacts. CO2- U (16)
 Or
 (b) How will analyse the impacts on the environment using Checklist method CO2- U (16)

18. (a) Imagine that there is plan for extending Madurai Airport and you have been given an opportunity to mitigate all the possible impacts that could be caused by this project, How will handle this scenario in an efficient way? CO3- App (16)
- Or
- (b) How will you Execute Environmental Audit for the new multi speciality hospital in your locality? CO3- App (16)
19. (a) Being an environmentalist express your ideas in assessment of the impacts caused with respect to social aspects of the environment CO5- Ana (16)
- Or
- (b) Being an environmentalist express your ideas in involving the public for Impact assessment process CO5- Ana (16)
20. (a) Imagine that there is plan for Constructing a new dam at tamirabarani river basin, How will you carryout EIA for this project. CO6- Ana (16)
- Or
- (b) How will you justify that it is highly essential to carryout EIA and give a brief knowledge regarding EIA to the people who are not aware of EIA CO6- Ana (16)