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**Question Paper Code: U9175**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Open elective

Civil Engineering

21UCE975-ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT

(Common to All branches)

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. EIA is study of probable change in socio economic and ----- characteristics of environment due to proposed action. CO1 -U  
(a) Biophysical            (b) Geological            (c) Hydrological            (d) Potential
2. Prediction of impact is ----- CO1 -U  
(a) qualitative            (b) quantitative            (c) economic            (d) beneficial
3. Sound intensity is measured in CO2 -U  
(a) Watts            (b) Joules            (c) Power            (d) decibels
4. Modelling plays an important role in ----- process. CO2 -U  
(a) Screening            (b) Decision making  
(c) Abstracting            (d) Scoping
5. The most effective process applied at early stage of project planning is CO3 -U  
(a) Impact minimization            (b) Impact avoidance  
(c) Impact compensation            (d) None
6. Which international agreement aims to address climate change and reduce greenhouse gas emissions? CO3 -U  
(a) Kyoto Protocol            (b) Montreal Protocol            (c) Paris Agreement            (d) Rio Declaration
7. The public hearing should be finished within CO4-U  
(a) 100 days            (b) 45 days            (c) 30 days            (d) 60 days

8. Maintenance stage is observed during CO4 -U  
 (a) Construction phase (b) planning phase (c) execution phase (d) none of the above
9. ----- is the current standard preservation chemical used in CO5 -U  
 RO plants during shut down  
 (a) Propylene glycol (b) Citric acid (c) Alkalies (d) Sodium metabisulphite
10. What is the term for the decline in the quality of air, water, and soil CO5 -U  
 due to human activities?  
 (a) Environmental protection (b) Environmental degradation  
 (c) Sustainable development (d) Urbanization

PART – B (5 x 2= 10 Marks)

11. What are the impacts of development on human health? CO1 -U
12. How to identify key environmental issues during EIA studies? CO2 -U
13. What are the reasons for poor quality of EIA report? CO3 -U
14. Mention few good practices in Social impact mitigation and management CO4 -U  
 system.
15. Suggest two options for mitigating adverse impacts on water environment due CO5 -U  
 to development of a housing complex.

PART – C (5 x 16= 80Marks)

16. (a) Compare the strengths, weakness and applicability of the different CO1 -U (16)  
 methodologies commonly used in EIA.  
 Or  
 (b) Explain with the neat a sketch the project cycle and EIA steps. CO1 -U (16)
17. (a) What is checklist method? Explain the different types of checklists CO2 -U (16)  
 with its advantages and disadvantages.  
 Or  
 (b) How can we predict the impacts in biological system using CO2 -U (16)  
 conceptual models?
18. (a) Explain the general impacts on fauna and flora environment by CO3 -U (16)  
 development activity.  
 Or  
 (b) Describe the environmental audit procedure and enumerate the CO3 -U (16)  
 benefits of environmental audits.
19. (a) Explain the procedure for conducting public hearing as per EIA CO4 -U (16)  
 Notification 2006.

Or

- (b) How can we predict Social Impacts of a project? Also mention about cultural issues involved. CO4 -U (16)
20. (a) Explain the environment impacts of water supply project with suitable case studies. CO5 -U (16)
- 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)

