

Mid-West University
Examinations Management Office
End-Semester Examinations -2080

Bachelor level/ B.E. Civil / 6th Semester
Time: 3 hours

Full Marks: 50
Pass Marks: 25

Subject: Environmental Impact Assessment (CE490)

- *Attempt all the questions*
 - *Figures in the margin indicate full marks.*
 - *Assume suitable values, with a stipulation, if necessary.*
 - *Candidates are required to answer the questions in their own words as far as possible.*
1. Describe Environmental Assessment with the necessity of Environmental assessment in the developing country like Nepal? (5)
 2. Explain principles of EIA. Explain the various steps involved in EIA process with figure. (2+3)
 3. Define screening criteria. Discuss methods for Initial Environmental Examination (IEE) of a small feeder road construction in your locality. (2+3)
 4. What is scoping and why it is important part of EIA process? Develop Term of Reference (TOR) for EIA of water supply project for Birendranagar Municipality. (5)
 5. What is environmental setting? Describe purpose and importance of baseline data collection. (2+3)
 6. What is EPM? What are the types of mitigation measures? Briefly discuss with an example for implementation. (5)
 7. Difference between Environmental Impact Assessment (EIA) and Initial Environmental Examination (IEE) with examples. (5)
 8. Do you think it is necessary for the public to know about environmental Impacts? Explain the reason. What is the role of MoEsT in environmental auditing Process in Nepal? (5)
 9. Write down the methods of impact identification. Describe any method with suitable examples. (5)
 10. A cement factory burns 9 tons of coal per hour and discharges the combustion products through a stack that has effective height of 90 m. The sulfur content of coal is 7.5%. The wind velocity at the top of the stack is 7 m/sec. The atmospheric conditions are moderately to slightly stable. Predict the impact on air environment at 1150 m downwind distance. The guideline states that if the concentration of SO₂ (sulfur dioxide) exceeds 300µg/m³ in the ambient environment it may cause adverse impact on human health, assume standard deviation of horizontal and vertical plum concentration at downwind distance of 1150 m is 115 m and 85 m respectively. (5)
- OR
- What is sustainable development? Do you think EIA helps in attaining aims of sustainable development? Give examples. (5)

The End