



GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2017

Subject Code: 2181302

Date: 02/11/2017

Subject Name: Environmental Impact Assessment

Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1**
- | | |
|--|----|
| (a) Define :Impact Assessment and Impact Statement | 03 |
| (b) State the objectives of EIA. | 04 |
| (c) Explain the different EIA methods and explain any one in detail. | 07 |
- Q.2**
- | | |
|---|----|
| (a) Give the classification of impacts. | 03 |
| (b) Establish the relationship between human activity and environmental impact for deforestation. | 04 |
| (c) "EIA is a four step activity" Justify the statement. | 07 |
- OR**
- | | |
|--|----|
| (c) Explain the detailed contents of EIA Report. | 07 |
|--|----|
- Q.3**
- | | |
|--|----|
| (a) Enlist the players of EIA. Explain any one. | 03 |
| (b) Give the significance of value function graph with example. | 04 |
| (c) Explain EIA is an integral part of the planning and decision making process. | 07 |
- OR**
- Q.3**
- | | |
|---|----|
| (a) Define and explain short term and long term impacts. | 03 |
| (b) Explain the importance of describing 'land use' in EIA. | 04 |
| (c) Describe in detail Biological and Socio-economic environment impacts of an Industrial Project | 07 |
- Q.4**
- | | |
|---|----|
| (a) Differentiate between: Reversible impacts and irreversible impacts | 03 |
| (b) Why it is considered that EIS is the conclusion of EIA. | 04 |
| (c) Write a detailed note on role of EIA as an approach to achieve sustainable development. | 07 |
- OR**
- Q.4**
- | | |
|--|----|
| (a) List the various types of data required to describe existing environmental conditions for impact assessment? | 03 |
| (b) Differentiate between EIA & Environmental Management Plan | 04 |
| (c) Explain "Interaction matrix" EIA method in detail. | 07 |
- Q.5**
- | | |
|--|----|
| (a) What does SEIAA stand for? Explain the same. | 03 |
| (b) Describe factors affecting selection of site for Industries. | 04 |
| (c) Narrate in detail Environmental legislations India for EIA. | 07 |
- OR**
- Q.5**
- | | |
|---|----|
| (a) Define with the help of example: Quantifiable & non quantifiable impacts. | 03 |
| (b) Explain the importance of mitigation in EIA. | 04 |
| (c) Write a short note on Environmental attributes. Enlist the Environmental categories and identify relevant environmental attributes under each category. | 07 |