Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER–VIII • EXAMINATION – SUMMER • 2014

Subject Code: 181302 **Date: 31-05-2014**

Subject Name: Environmental Impact Assessment

Time: 10:30 am - 01:00 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)** Explain EIA as a four step activity. **07**

(b) Enlist EIA methods and explain briefly Beattle Columbus and matrix methods. **07**

Q.2 **(a)** Define 'Sustainable Development'. Enlist the methods to achieve sustainable development. Explain 'Carrying Capacity based developmental planning' to achieve Sustainable Development. **07**

(b) What is environmental impacts and also define the following with the help of an example: **07**

(i) Primary and secondary impacts

(ii) Acceptable and non acceptable impacts

(iii) Quantifiable and non quantifiable impacts.

OR

(b) Differentiate between: **07**

(i) EIA and EIS

(ii) Environmental Impact Analysis and Environmental Impact Assessment

Q.3 **(a)** Define Environmental Attributes. Enlist and explain environmental attributes in brief. **07**

(b) What are your views on 'the need of EIA' for developing countries? **07**

OR

Q.3 **(a)** Explain the difference between environmental effects and impacts with appropriate example. **07**

(b) Enlist the drawbacks of EES method. **07**

Q.4 **(a)** Enlist important players in EIA and define at least four. **07**

(b) Highlight the advantages and disadvantages of public participation in the overall environmental clearance process for any project. **07**

OR

Q.4 **(a)** Establish the relationship between human activities and environmental impact with the help of diagram. **07**

(b) EIA- As An Integral Part of The Planning Process. Illustrate. **07**

Q.5 **(a)** Explain the procedure to be followed for obtaining environmental clearance as per EIA Notification 2006. **07**

(b) A chemical industry is to be established on the banks of a perennial river. Prepare an impact identification matrix for the project. **07**

OR

Q.5 **(a)** Enlist the requirements of good EIA method. **07**

(b) You are required to develop EIA report for proposed construction of an Express way project. As an assessor prepare a simple checklist of environmental parameters likely to be affected. **07**

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