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Roll No.

EIGHTH SEMESTER

B.E. (ENE)

MID SEM EXAMINATION

March 2007

ENE-411 FIRE HAZARDS & SAFETY CONTROL SYSTEMS

Time: 1 Hour 30 Minutes

Max. Marks : 20

Note : Answer any **FOUR** questions.
Assume suitable missing data, if any.

- 1 Discuss different types of fires in brief. 5
- 2 Briefly describe various structural and non structural aspects of fire. 5
- 3 Classify different types of fire hazards with examples. 5
- 4 Briefly discuss the fire resistance based grading of structural components. 5
- 5 What is active and passive resistance and discuss the fire hazard properties of liquids and materials. 5

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B.E. (ENE)

MID SEM EXAMINATION

March 2007

**ENE-412 NON CONVENTIONAL ENERGY
SYSTEMS**

Time: 1 Hour 30 Minutes

Max. Marks : 20

Note : Answer any **FOUR** questions.
Assume suitable missing data, if any.

- 1 Name different types of Non conventional energy systems. State their salient features with typical applications. 5
- 2 Discuss in brief the biogas plant technology. What pre-requisites do you think are essential for setting up a gas plant? 5
- 3 Draw typical sketches of a small and large biogas plant. Discuss briefly use of bio gas as a fuel for cooking versus biogas plant as a source of organic manure. 5
- 4 What is Bio Mass? Draw a typical sketch of a bio mass gasifier. How much potential you visualize from a biomass fuel system, discuss briefly in the light of its conversion to a reliable source of energy. 5
- 5 Write short notes on any FOUR of the following :
 - i. Care of a biogas plant
 - ii. Janta biogas plant and a KVK plant
 - iii. Biomethanation of paper Mill black liquor
 - iv. Sanitary toilet linked biogas plant
 - v. Economics of a gohar gas plant. 5

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EIGHTH SEMESTER

B.E.(ENE)

MID SEM EXAMINATION

March **2007**

**ENE-413 ENVIRONMENTAL IMPACT
ASSESSMENT & AUDITING**

Time: 1 Hour 30 Minutes

Max. Marks : 20

Note : Question No. 1 is compulsory.
Answer any **SIX** questions from the rest.
Assume suitable missing data, if any.

- 1 What is EIA? What are its objectives? 2
- 2 Explain, how Environmental Impacts are classified, by giving examples. 3
- 3 What are Environmental Indices? How they can be expressed? Discuss Pollution Standard Index in this regard. 3
- 4 Explain how significance of Environmental Impacts is incorporated in EIA exercise? What are the criteria for evaluation of significance of environmental impacts? 3
- 5 What is meant by EIA methodology? What are the characteristics an EIA methodology is supposed to have? Discuss Ad-hoc method for EIA. 3
- 6 Discuss the variables, which are generally adopted for assessments of Impacts of Project/Actions on social and economic dimension of the environment. 3
- 7 Describe Check List method of EIA by giving an example. 3
- 8 What is Quality of Life Index? List the parameters included in one such index along with their weights. 3