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BIMEE-014

B.Tech. – VIEP – MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination December, 2016

BIMEE-014: SAFETY ENGINEERING

Time: 3 hours Maximum Marks: 70

Note: Answer any **five** questions. All questions carry equal marks.

- 1. (a) What are biological health hazards? Write in detail about the biological agents and different diseases caused by them.
 - (b) What is the greenhouse effect? What are the effects of climate change? 7+7
- 2. (a) What are the causes of industrial accidents? Suggest some practical measures to minimise them.
 - (b) What are the safety inspections? Discuss the objectives and role of safety inspectors. 7+7
- 3. (a) Discuss the role of government and society in keeping safety management in industry.
 - (b) What is the role of protective equipment and clothing to avoid hazards in the workplace? 7+7

- 4. (a) What purposes are served by the Legislative Acts in respect of occupational health and safety?
 - (b) Describe the various factors polluting the environment. 7+7
- 5. (a) What are the methods of detecting gaseous pollutants in industrial environment? Describe the methods which detect CO₂, methane and SO₂.
 - (b) What do you understand by land filling?
 What are the different types of land fills?
 How is a land fill designed and its size selected? What chemical reactions occur in a land fill and what is the output?

 7+7
- 6. (a) Describe the types of accidents due to electricity and discuss the preventive measures.
 - (b) Explain in detail how the industrial accidents are connected with employees, employer, government, society, product, processes and environment. 7+7