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Roll No

CM-6005(1)-CBGS

B.E. VI Semester

Examination, June 2020

Choice Based Grading System (CBGS)

Process Safety and Hazards Management

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions, out of eight.
ii) All questions carry equal marks.

1. a) Discuss Factory Act (1948) for safety and workmen's compensation Act (1923).
b) Describe the Health hazards of industrial substances.
2. a) What is toxicity? Give the safety limits of toxicity.
b) What is Industrial Hygiene?
3. a) Differentiate between mist explosion and dust explosion.
b) Describe the causes of fire in industry and preventive methods.
4. a) Give safety aspects related to "noise" and "pressure".
b) Describe the plant management and maintenance to reduce energy hazards.
5. a) Give a brief note on emergency planning.
b) What do you understand by Quantitative Risk Analysis?

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6. a) What are the factors that causes fire in a plant? Discuss about provisions for fire fighting in the plant.
b) Describe failure distribution.

7. a) What do you understand by component and plant reliability.
b) Describe the toxic materials and their properties.

8. a) Give a brief note on hazards and operability.
b) Describe the Fault Tree method.

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