Roll No…….. **Total No. of Printed Pages: 01**
Total No. of Questions: [09]

B.Com (Hons.) Semester: 5th)
INDUSTRIAL SAFETY AND ENVIRONMENT
Subject Code: BMEE0F91
Paper ID: OE1140311

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:

a) What is the primary goal of industrial safety?
b) What are the safety considerations in plant layout?
c) What are good questions to ask at a safety meeting?
d) How safety is related to economics?
e) What control measures can be put into place to reduce the risks of fatigue?
f) What is the best way to measure fatigue?
g) What is the basic concept of ISO 14000?
h) What are environmental heat stress indices used to?
i) What are the factors that affect human comfort and effective temperature required for human comfort?
j) What are the sources of heat stress?

Section – B **(5 marks each)**

Q2. How are employees encouraged to participate in the safety process?
Q3. What are the key factors you think should be considered to create a good work environment for you?
Q4. What are the basic types of ventilation systems?
Q5. (a) What are the three main types of environmental standards?
(b) What are the challenges of thermal comfort?
Q6. Write in detail about industrial accidents, their nature, types and remedies to reduce them.

Section – C **(10 marks each)**

Q7. Write about Environmental factors in industry. Explain the effects of temperature, illumination, humidity noise and vibrations on human body and mind.
Q8. Write in detail on the following statement:
The effect of noise on man. Measurement and evaluation of noise. Noise isolation and noise absorption techniques. Effect, measurement and control measures of noise.
Q9. Write a detailed note on the following:
(a) Hazard identification techniques.
(b) Safety standards and legislation