CT Inst. of Engg.,

Roll No.

Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (ME) (Sem.-7th, 8th)

INDUSTRIAL SAFETY AND ENVIRONMENT

Subject Code: ME-402 Paper ID: [A0838]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

I. Answer briefly:

- a) What is the importance of safety at work?
- b) What is the role of a safety expert in ensuring safety at work?
- c) Enlist the types of accidents according to causes of events.
- d) Enumerate the terms: WBV and HAV.
- e) Differentiate between Natural ventilation and Forced ventilation.
- f) What is the purpose of Machine Guards?
- g) What are the key features of Boiler's Act?
- h) What is the effect of intermittent Noise?
- i) What do you know about Sleep Cycle and Sleep Debt?

j) What are the salient features of ISO 14000 standards?

SECTION-B

- What are various types of accidents? How industries cope up with various types of accidents?
- Explain briefly the various occupational did due to extreme thermal explosion. Also explain to be adopted in this regard.
- Write the Major provisions of Factory Act I working hours and employee welfare.
- Differentiate between Artificial lighting and Da and disadvantages. The adequate lighting h Comment.
- How does the management ensure the safety

SECTION-C

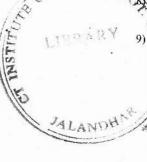
 How can workers safety be maximized in a the different approaches of safety manageme adopted to ensure employees participation in

What is purpose of accident investigation different measures taken up by organizations

Write short notes on:

Safety and ergonomics

Safety standards and legislations.



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