

CBCS Scheme

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15MN561

Fifth Semester B.E. Degree Examination, Dec.2017/Jan.2018

Industrial Safety Engineering

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. Based on recrystallization temperature working of metals has been divided into few types. Explain about the same. (08 Marks)
- b. With the different types of forging operation, explain forging its advantages and disadvantages. (08 Marks)

OR

- 2 a. Explain process wise hazards and safety to be followed in casting operation. (08 Marks)
- b. Explain different mechanical power presses Viz., Shearing , Bending , Rolling drawing , Turning , Boring Milling , Planning and Grinding. (08 Marks)

Module-2

- 3 a. Write a detailed note on Safety procedures to be followed in welding and cutting operations. (08 Marks)
- b. Write a detailed note on Safety procedures to be followed in soldering operations. (08 Marks)

OR

- 4 Write a detailed note on safety procedures to be followed in finishing operations like polishing cleaning and buffing operations of metals with relevant drawings. (16 Marks)

Module-3

- 5 a. Write a detailed note on high incidence of serious accidents in working at height using suitable examples. (08 Marks)
- b. Explain Boatswain's Chair -- safety harness with neat sketch. (08 Marks)

OR

- 6 Write a detailed note on Erection, Inspection , Certification and safe use of different types of Scaffolds. (16 Marks)

Module-4

- 7 a. Explain Occupational hazards and other associated accidents which usually occurs in mining industry. (08 Marks)
- b. Write a detailed note on Preventive measures to be followed against hazards and accidents in ceramic industry. (08 Marks)

OR

- 8 a. Explain occupational hazards and other associated hazards which usually occurs in textile industry. (08 Marks)
- b. Write in detailed note on preventive measures to be followed against hazards and accidents in leather industry. (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-5

- 9 a. Write a detailed note on Safety measures to be taken while dealing with nano technology. (08 Marks)
b. Explain the safety measures to be followed while working with robots. (08 Marks)

OR

- 10 a. Explain guidelines and safety standards with respect to OSHAS in hospital industry. (08 Marks)
b. Explain guidelines and safety standards with respect to OSHAS in film industry. (08 Marks)

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