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Roll No. ....

**CC-601**

**M. Tech. EXAMINATION, May 2017**

(Third Semester)

(Re-appear Only)

ESEM

ESEM-301-B

INDEPENDENT STUDY

*Time : 3 Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt any *Five* questions. All questions carry equal marks.

(3-18/10)-CC-601

**P.T.O.**

1. (a) Define Accident. Write down the classification, causes and consequences of accidents. **10**  
 (b) Discuss in brief the types of losses results from accidents. **5**
2. (a) Discuss the role of trade unions in safety management. **7**  
 (b) “Training and awareness program in industries for the workers can play important role in safety management.” Comment on the statement. **8**
3. (a) Expand PPEs. Discuss the various types of PEEs. Which types of PPEs are required in construction industry ? **10**  
 (b) How can we perform risk assessment in construction industry ? **5**
4. (a) Discuss in brief the general principles for emergency preparedness and planning. **10**  
 (b) Write short note on land use planning. **5**

5. (a) What are the general duties of occupier and factory manager under Factory Act, 1948 ? **8**  
 (b) Explain the provision of working hours under Section 51 or 56 of Factory Act, 1948. **7**
6. Expand OHSAS18001. How OHSAS 18001 is important for risk assessment in an organization ? Discuss the process of documentation under OHSAS 18001. **15**
7. Write short notes on any *two* of the following : **7½×2=15**
  - (a) Accident analysis
  - (b) Safety inspection
  - (c) Sustainable development.
8. Write short notes on the following : **7½×5=15**
  - (a) Environment management
  - (b) Safety survey.