B.Tech. Degree VIII Semester (Supplementary) Examination, September 2008

SE 802 ACCIDENT INVESTIGATION AND ANALYSIS

(Common for 1999 and 2002 Scheme)

Time: 3 Hours   Maximum Marks: 100

I   a)   Explain the Heinrich model of accident causation and prevention.   (10)
    b)   Discuss the problems of using accident data as a measure of performance.   (10)

OR

II   With example explain the various steps in accident reporting and investigation.   (20)

III a) Which are the factors that will be taken into consideration for determining the
         priority of investigation.   (10)
     b) Explain the concept "incident recall technique" with suitable example.   (10)

OR

IV   Write *notes* on:
             i)   Human failings
             ii)   Unpredictable performance
             iii) Mistake which leads to accident
             iv)   Work place violence   (4 x 5 = 20)

V   a) How will you acquire accident date for investigation.   (10)
     b) Explain the field investigation procedure for accident investigation.   (10)

OR

VI   a) How will you prepare an accident investigation report.   (10)
     b) Explain the various points to be remembered while dealing with the witness.   (10)

VII a) What are the various reports available? To which category accident reports attached? (10)
     b) Differentiate a report and a minutes.   (10)

OR

VIII   Explain how group discussion and developing co-operation will help in the
         accident investigation and analysis.   (20)

IX   How you will rate the accident models and investigation methodologies? Explain.   (20)

OR

X   a) Write *notes* on:
             i)   Accident analysis
             ii)   Presentation of data
             iii) Classification of accidents
             iv)   Safety data sheets   (4 x 3 = 12)
     b) Explain the uses of accident analysis and accident records in accident investigation. (8)

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