



TONTADARYA COLLEGE OF ENGINEERING

Department of Civil Engineering

Internal Assessment - II (18CV653)

Subject Occupational Safety & Health Date 16-06-2022
Semester VI Time 09:30 to 11:00

Total Marks: 50

Answer by choosing one sub question from each main question

- Q1 a) Define Fire and fire triangle. Explain the different classifications of fire. 10 M CO3
OR
b) Explain with graph the effect of fire development on hazards to life safety 10M CO3
- Q2 a) What are fire extinguishers? Explain the different types of fire extinguishers 10 M CO3
OR
b) Define Product Safety. Explain the technical requirement of product safety 10M CO4
- Q3 Write a note: 10 M CO4
a)
i) Early detection of fire/ Fire detection systems 10 M CO4
ii) Fire development: severity & duration
OR
b) Explain the process of emergency response plan and decision for action 10 M CO4
- Q4 a) Write a note on i) Workspace Envelope ii) Visual Ergonomics 10 M CO4
OR
b) Discuss the application of fault tree analysis method with an example 10 M CO4
- Q5 a Briefly describe the following hazard analysis methodology
i. Hazard and operability review (HAZOP)
ii. Fault tree analysis (FTA) 10 M CO4
OR
i. Human error analysis (HEA) 10M CO4
b) ii. Failure Mode Effect Analysis (FMEA)

CO	Complete Title
CO3	Present a coherent analysis of a potential safety or health hazard both verbally and in writing. Citing the occupational health & Safety regulations as well as supported legislation.
CO4	Discuss the role of health Safety & Environment in the workplace pertaining to the responsibilities of workers managers and supervisors