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Total Number of Pages : 01

M.Tech
P2EVCC09

2nd Semester Regular Examination 2018-19

OCCUPATIONAL HEALTH & SAFETY

BRANCH : ENVIORN ENGG.

Max Marks : 100

Time : 3 Hours

Q.CODE : F444

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part- I

Q1 Only Short Answer Type Questions (Answer All-10) (2 x 10)

- Write two responsibilities of safety officers.
- Define hazard.
- What are different theories of accident causation?
- How do you relate occupational health to industrial safety?
- State two noise abatement methods.
- What do you mean by stress-strain concept?
- Write two fire prevention techniques.
- What is ergonomics?
- Name four personal protective equipments used in industries.
- Name the policies and legislations on occupational health and safety.

Part- II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- Discuss about the various national and international protocols and concerns on occupational health and safety.
- Explain how do you Assess human capabilities and limitations
- Discuss the responsibility of industrial safety committee.
- Show that the accidents are caused by human error.
- Discuss in detail the classification of human error.
- What is the need to evolve an integrated occupational health and safety programme for specific industries?
- Illustrate the basic elements and causes of industrial fires and explosions.
- Write a short note on factory's act.
- What are material safety datasheets? What are their need?
- Discuss how to abate noise in industries and elsewhere?
- State various material handling hazards.
- Explain System safety Analysis techniques.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3** Discuss about the education and training in occupational health and hygiene. Discuss about accident analysis. **(16)**
- Q4** Give an account of OHSAS 18001 standard and its elements **(16)**
- Q5** Describe Industrial best practices: in electrical, mechanical, fire and machine guarding, **(16)**
- Q6** Discuss about petroleum rules 2002. **(16)**