

Registration no:

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Total Number of Pages: 01

**M.TECH**  
**ENPE206**

**2<sup>nd</sup> Semester Back Examination – 2016-17**  
**OCCUPATIONAL HEALTH AND SAFETY**  
**BRANCH(S): ENVIRONMENTAL ENGINEERING**  
**Time: 3 Hours**  
**Max Marks: 70**  
**Q.CODE:Z834**

**Answer Question No.1 which is compulsory and any five from the rest.**  
**The figures in the right hand margin indicate marks.**

- Q1 **Answer the following questions:** (2 x 10)
- a) Define ergonomics.
  - b) List two human errors.
  - c) What is occupational health?
  - d) Enumerate the national protocols for occupational health and safety.
  - e) Name two sources of work stress intrinsic to jobs.
  - f) Define emergency preparedness.
  - g) What is OH and SMS documentation?
  - h) Name the methodology for evaluating different type of stresses.
  - i) Name two safety measures taken to avoid electrical accidents in industries
  - j) Name the legal provision for occupational health and safety.
- Q2 a) Discuss about education and training in occupational hygiene. (5)
- b) What is the Need to evolve an integrated Occupational Health and Safety Programme for specific industries? (5)
- Q3 Discuss about the international protocols and concerns, policies and legislation on occupational health and safety. (10)
- Q4 Discuss in details about the various sources of work stress and the methodology for evaluating them. (10)
- bput question papers visit <http://www.bputonline.com>
- Q5 a) Discuss briefly about ergonomics. (5)
- b) Discuss about the theory of accident causation. (5)
- Q6 a) Classify the human errors. (5)
- b) What are the different types of accidents likely to be caused in a petroleum refinery. (5)
- Q7 a) Elaborate about Occupational Health & Safety Management Systems (OHSAS - 18001) (10)
- Q8 **Write short notes on any TWO** (5 x 2)
- a) Stress-strain concept
  - b) Human psychological work capacity and its evaluation.
  - c) Human error audit
  - d) Accident analysis