

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech. Summer2021 – 22 Examination

Semester: 8**Subject Code: 203120485****Subject Name: HSE in Petroleum Industry****Date: 30-03-2022****Time: 10:30am To 1:00pm****Total Marks: 60**

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Objective Type Questions - (Fill in the blanks, one word answer, Full form, MCQ-not more than (15) Five in case of MCQ) (All are compulsory) (Each of one mark)

1. OSHA was created to _____

- A. Data analysis
- B. To reduce hazards
- C. Ecological development
- D. EIA analysis

2. What is the third step of risk assessment?

- A. Hazard identification
- B. Toxicity assessment
- C. Exposure assessment
- D. Corrosivity assessment

3. What is the task of risk management?

- A. Implementing the management measures and allocating management resources
- B. Chemical analysis
- C. Exposure assessment
- D. Toxicity assessment

4. What is the main goal of risk management?

- A. Pathway analysis
- B. Estimation
- C. Transportation
- D. Calculate probability of adverse effect on individual and population

5. _____ is an example of indirect measurement in exposure assessment.

- A. Environmental measurement
- B. Personal measurement
- C. Biological exposure monitoring
- D. Biological effect monitoring?

6. HAZID

7. PTW

8. MOC

9. SIMOPs

10. CPCB

11. Hydrogen Sulphide is a -----
12. Biggest Onshore field of India is situated in which state
13. Oil fields of Rajasthan are owned by
14. NGT
15. Petroleum Industry comes under which Ministry of Govt. of India

- Q.2** Answer the following questions. (Attempt any three) **(15)**
- A) Explain Hazard. Write different types of Hazard.
 - B) Explain Alpha piper accident.
 - C) Explain Bhopal Tragedy.
 - D) Short note on Flixborough
- Q.3** A) How to conduct a risk analysis. **(07)**
B) Define ISO & Its utility. Describe the primary difference between ISO 9000 and ISO 14000? **(08)**
- OR**
- B) What is the difference between ISO 14000 & 14001. Explain the benefits of EMS. **(08)**
- Q.4** A) Name the Industries requires ISO certification. **(07)**
- OR**
- A) Oil Spill & one case study in detail. **(07)**
B) What are Impacts of crude oil exploration and production on environment. **(08)**