

Printed pages: 01

Sub Code: REV061

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BTECH
(SEM VI) THEORY EXAMINATION 2018-19
HSE FOR OFFSHORE AND PETROLEUM INDUSTRIES

Time: 3 Hours

Total Marks: 70

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

- 1. Attempt all questions in brief.** **2 x 7 = 14**
- a) What is HSE management system?
 - b) Why is HAZOP required?
 - c) What are the requirements for hazard identification?
 - d) What are the difficulties found in dose assessment?
 - e) What do you understand by Environmental management?
 - f) How do you identify a hazard?
 - g) What is the purpose of HSE management system?

SECTION B

- 2. Attempt any three of the following:** **7 x 3 = 21**
- a) Write short notes on Safety in design and operations
 - b) Discuss the purpose and procedure of Chemical risk assessment.
 - c) Discuss the Impact of oil industry in marine environment.
 - d) State and explain the types of air pollutant emission sources.
 - e) Discuss the purpose of Process safety management.

SECTION C

- 3. Attempt any one part of the following:** **7 x 1 = 7**
- a) Briefly discuss the overview of HSE management System.
 - b) What do you understand by HAZOP? Also mention its advantages and disadvantages.
- 4. Attempt any one part of the following:** **7 x 1 = 7**
- a) Write short notes on Dose assessment.
 - b) Explain briefly the scenario selection for CEI.
- 5. Attempt any one part of the following:** **7 x 1 = 7**
- a) Discuss in detail the components and process of Environmental Impact Assessment.
 - b) Write short note on Oil hydrocarbons in marine environment.
- 6. Attempt any one part of the following:** **7 x 1 = 7**
- a) Discuss the concept and types of Environmental management.
 - b) Discuss in detail formal hazard assessment.
- 7. Attempt any one part of the following:** **7 x 1 = 7**
- a) Why safety is important in oil and gas industry?
 - b) What are the principles of safe design process?