



**University of Petroleum & Energy Studies**  
**School of Business, Dehradun**  
**MBA-OIL & GAS**  
**END SEM EXAM- 2020**  
**HSE FOR PETROLEUM SECTOR**  
**OGOG8002**

**TIME: 3 HRS**

**MAX MARKS; 100**

**SECTION-AATTEMPT ALL QUESTIONS**

**(35x 2=70 Marks)**

1. Environmental criteria for sustainable development
  - a. Reduces GHG and use of fossil fuels
  - b. Conserves local resources
  - c. Provides health and environmental benefits
  - b. All of these
2. SDS is :
  - a. Material safety data sheet
  - b. safety data sheet
  - b. Manager data register
  - d. none of the above
3. Which organization helps in formulating standards related to environmental pollution?
  - a. Oil industry safety directorate
  - b. MoEFc (CPCB)
  - b. OSHA
  - d. Petroleum & Explosives Safety Organization (PESO),
4. The Boilers Act established in the Year.
  - a. 1948
  - b. 1976
  - c. 1934
  - d. 1984
5. EMP means, “Environmental management plan”
  - a. TRUE
  - b. FALSE
6. Small Scale CDM Projects include
  - a. Home biogas
  - b. Mini grid renewable energy
  - c. both
  - d. none of these
7. Project approved by National Authority should be consistent with national + local development priorities
  - a. true
  - b. false



- a. Un-safe acts and unsafe conditions    b. Un-safe conditions and unsafe machines  
c. Un-safe people and unsafe machines
- 21.** CDM projects must be approved by the host country  
a. TRUE        b. FALSE
- 22.** Small Scale CDM Projects include  
a. Home biogas        b. Mini grid renewable energy    c. both  
d. none of these
- 23.** Tool box talk is :  
a. Talking about tools    b. talking about box    c. it is safety briefing  
d. None of the above
- 24.** Risk = Frequency × severity  
a. TRUE    b. FALSE
- 25.** Staff colony should be constructed opposite to dominant wind direction:  
a. True    b. false
- 26.** Risk are generally expressed as:  
a. Individual risk    b. Societal risk    c. Mass risk        d. both A and B
- 27.** FTA stands for:  
a. Event tree analysis    b. event risk assessment  
c. Minimum Credit Accident        d. None of the above
- 28.** Work permit system can help in:  
a. reduction in mechanical accidents        b. reduction in spread of pollution  
c. reduction in ergonomics hazards    d. reduction in all types of accidents
- 29.** EIS stands for environmental impact assessment  
a. TRUE        b. FALSE
- 30.** BOD stands for biological oxygen demand:  
a. TRUE    b. FALSE
- 31.** HAZID stands for Hazard identification:  
a. TRUE        b. FALSE
- 32.** PHA stands for:  
a. Preliminary Health Analysis    b. job safety analysis  
c. qualitative risk assessment        d. Preliminary Hazard Accreditation
- 33.** What is an accident?  
a. Anything with the potential to cause harm    b. Where an accident is likely to cause harm  
c. The likelihood of something going wrong  
d. none of the above
- 34.** Chronic poisoning is characterized by:

- a. repeated exposure over months or years    b. repeated exposure over months or years    c. always has a sudden effect    d. is usually fatal
- 35.** Job safety analysis helps in identification of hazard involves in particular job.  
a. True b. False

**SECTION-B, ATTEMPT ALL QUESTIONS**

**(3x5= 15 Marks)**

**Q.36.** Write Short Notes on:

- OISD
- Emergency inventory

**Q.37** Define an accident. What are direct costs of an accident?

**Q.38** Briefly, Noise pollution and methods to reduce Noise pollution problem?

**Q.39** Work Permit System helps industries to work without any lost time injuries. Share your knowledge on various work permit systems applicable in oil & gas /construction industries.

**Q.40** List out various components of Process Safety Management.

**SECTION -C, ATTEMPT ANY TWO QUESTIONS**

**(7.5x2= 15 Marks)**

**Q.41** You are supposed to award some work to outside contractor. What will be your criteria to award that work being a Manager- HSE?

**Q.42** A well-written onsite & offsite emergency management plan can play crucial role in management of any types of disaster. What is disaster management plan? Write in detail about DMP for a refinery?

**Q.43** Risk assessment at various stages of plant life can help in reduction of major accidents. Discuss objectives of risk and components of risk assessment.

