

#### 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 biogasb. Mini grid renewable energyc. bothd. none of these
- **7**. Project approved by National Authority should be consistent with national + local development priorities

**a**. true b. false

- **8.** Among given options the most difficult emergency to handle is:
  - a. Fire b. explosion c. chemical spill d. toxic release.
- **9.** The HSE policy should be displayed at prominent places in your organization.
  - a. True b. False
- **10.** New name of OHSAS 18001 is.
  - a. ISO 14040
  - b. c. ISO 18001 d. none of the above
- **11.** A mechanism by which Industrialized Nations can achieve part of their reduction obligations through projects that reduce or fix/sequester carbon in Developing Countries.
  - a. Clean Development Mechanismb. Central Emission Reductiond. none of these

b. ISO 14042

**12**. The air act (Prevention and Control of Pollution) Act was enacted in the year:

a.1975 b. 1994 c.1986 d.1981

**13**. Vaccines are available for HIV disease.

a. TRUE b. FALSE

14. Government and companies want to reduce GHG emissions by

- a. investing in their country b. investing in projects in developed companies Incorrect c. both d. none of these
- **15.** One hazard while performing in confined space.
  - A. low level of oxygen b. food availability in confined space c. flash point d. none of the above
- **16.** What must be included in a company emergency plan?
  - a. Job description of team
  - b. Use of PPE
  - c. Number of hours required to manage emergency
  - d. d none of the above
- 17. Boilers should be inspected every yearA. TRUE b. FALSE
- **18.** Selection of contractor will play an important role in reduction of accidents:
  - a. True B. False

**19.** In order to achieve an efficient HSE management system, the OHS policy should be updated regularly and follow a PDCA cycle.

- a. TRUE b FALSE
- 20. What are the two main causes of incidents in the workplace?

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 biogasb. Mini grid renewable energy c. bothd. none of these
- **23.** Tool box talk is :
  - a. Talking about tools b. talking about box c. it is safety briefingd. 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. TRUEb. 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 poisoningis 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.