



Foundation Course on Oil and Gas Exploration and Production and Promoting Sound Environmental Management

Assessment

Name of Participant (please print in block letters):						

Circle the correct answer/s, as instructed:

- Which following activity <u>does not</u> belong to the Oil and Gas Exploration and Production Life Cycle? (hint: only 1 activity does not belong)
 - a. Seismic evaluation
 - b. Drilling
 - c. Well completion
 - d. Field management
 - e. Communications and public outreach
- 2. The majority of global energy consumption comes from:
 - a. Fossil fuels
 - b. Renewable energy
 - c. Nuclear energy
- 3. Which the Sustainable Development Goals are considered relevant for ensuring sustainable development in the oil and gas sector?
 - a. Ensure access to water and sanitation for sll (SDG6)
 - b. Promote inclusive and sustainable economic growth, employment, and decent work for all (SDG8)
 - c. Gender Equality (SDG5)





d.	Αll	of	the	above	
----	-----	----	-----	-------	--

4.	Future oil	activities a	are shifting	from light	oil to hea	vy oil fields
----	------------	--------------	--------------	------------	------------	---------------

- a. True
- b. False
- 5. Fossil fuels are formed from decayed plants and animals that have been converted to crude oil, natural gas, or heavy oils by exposure to heat and pressure in the earth's crust over hundreds of millions of years
 - a. True
 - b. False
- 6. For commercial oil/gas production, which four geological elements must be present (hint: there are only 4 correct answers):
 - a. Sufficient heat and pressure
 - b. Source rock
 - c. Reservoir rock
 - d. Reservoir trap
 - e. Good reservoir quality
- 7. The quality of reservoir rocks is determined by porosity and permeability
 - a. True
 - b. False
- 8. Air surveillance to define prospects/drilling locations can replace seismic surveys
 - a. True
 - b. False
- The potential environmental impacts from seismic surveys include noise, damage to habitats, and changes in movement of water (hydrology)
 - a. True
 - b. False
- 10. Water-wet rock is more favorable than oil-wet rock





	a. True
	b. False
11	Natural gas containing H2S is toxic
	a. True
	b. False
12	2. A blowout preventer (BOP) is used to:
	a. Control the well and prevent a blowout
	b. Control production rates from a well
13	3. The most common type of drilling fluid used are water-based muds
	a. True
	b. False
14	Discharge of oil-based mud into the marine environment is forbidden under all
	circumstances
	a. True
	b. False
15	6. Which key factors drive decisions about what type of drilling fluid is used for a specific
	well (circle all possible correct answers):
	a. Cost
	b. Technical performance
	c. Environmental impact
16	6. Barite is added to the drilling mud to add weight to the drilling mud
	a. True
	b. False
17	7. A gas kick during the drilling operation should be controlled immediately as it could lead
	to a blowout

a. True

b. False





18. In offshore drilling	, the riser pipe is	used to circulate	drill mud and	d cuttings
--------------------------	---------------------	-------------------	---------------	------------

- a. True
- b. False
- 19. In offshore drilling, it is allowed to dispose of the drill cuttings before running the first casing on the seabed
 - a. True
 - b. False
- 20. For offshore drilling, oil-based mud is preferred to water-based mud
 - a. True
 - b. False
- 21. In offshore operations, under sea/ocean pipelines for fluids transportation is always the most favourable method
 - a. True
 - b. False
- 22. Safety for offshore operations is more critical than for on-shore operations
 - a. True
 - b. False
- 23. Which is <u>not</u> considered a direct environmental impact from drilling:
 - a. Removal of vegetation and topsoil
 - b. Changes in surface hydrology
 - c. Air pollution from gas flaring
 - d. Disturbance to local population and wildlife
- 24. It is normal to expect production problems in oil and gas wells. Which is the <u>most</u> common well production problem (hint: only 1 answer is correct):
 - a. Water production
 - b. Scaling
 - c. Corrosion





- d. Wax build up
- 25. Production water sometimes contains NORM (Natural Occurring Radioactive Material)
 - a. True
 - b. False
- 26. Carbon dioxide, nitrogen oxide, and sulfur dioxide are often emitted (circle all possible correct answers):
 - a. From energy production in gas turbines, generators, and diesel engines
 - b. From flaring
 - c. From well testing
 - d. From transport of crude oil and gas
- 27. Circle which statement is true
 - a. Flaring is the practice of burning gas that is deemed uneconomical to collect and sell and is also used to burn gases that would otherwise present a safety problem
 - b. During well testing, unlimited gas flaring is allowed
- 28. Oil and gas storage uses only surface facilities not underground
 - a. True
 - b. False
- 29. Which of the following is <u>not</u> used for the transportation of oil and gas:
 - a. Pipeline
 - b. Air transport
 - c. Rail
 - d. Trucks
 - e. Ship
- 30. Which of the following must be considered when laying pipelines (circle all possible correct answers):
 - a. Benefits for communities living along the pipeline when completed
 - b. Establishing a leak detection system





- c. Economic cost
- 31. The Government is responsible for dealing with all oil spills based on the 3-tiered response system
 - a. True
 - b. False
- 32. What are $\underline{3}$ key considerations when assessing site contamination? (circle all possible correct answers)
 - a. Source of pollution
 - b. Pathways or trajectory of pollutants
 - c. Receptors of pollution
 - d. Cost of clean up efforts