

Reservoir Engineering Quiz Questions and Answers Pdf

1. Which of the following is the measure of storage capacity that is capable of holding fluids?
 - a. Porosity
 - b. Permeability
 - c. Formation volume factor
 - d. None of the above

Ans: A

2. The percentage of interconnected space with respect to the bulk volume is called
 - a. Total porosity
 - b. Effective porosity
 - c. Relative porosity
 - d. None of the above

Ans: B

3. The void to grain ratio of sand stone-stone samples is $\frac{1}{4}$. What is the porosity of this sample?
 - a. 20%
 - b. 25%
 - c. 30%
 - d. 40%

Ans: A

4. Porosity of a rock depends on
 - a. Size and shape of the grains
 - b. Nature of packing
 - c. Presence and absence of vugs and fractures
 - d. All of the above

Ans: D

5. The porosity of the cubic packing is
 - a. 47%
 - b. 26%
 - c. 35%
 - d. 20%

Ans: A

6. The porosity of rhombohedral packing is
 - a. 32%
 - b. 26%
 - c. 12%
 - d. 52%

Ams: b

7. Which of the following well log can be used to determine porosity?
 - a. Electrical resistivity log
 - b. Neutron log

- c. Density log
- d. All of the above

Ans: D

8. A change in permeability value is observed while determining permeability with gases at different pressure. This is known as
- a. Klinkenberg effect
 - b. Gravity effect
 - c. Viscosity effect
 - d. None of the above

Ans: A

9. The relative amount of a particular phase present in the pore space is called
- a. Saturation
 - b. Porosity
 - c. Permeability
 - d. None of the above

Ans: A

10. The maximum water saturation at which the water phase will remain immobile is known as
- a. Critical water saturation
 - b. Connate water saturation
 - c. Irreducible water saturation
 - d. All of the above

Ans: D