

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**I Choose the correct alternative:**

1. What is Pigging []
 - a. It is an operation to clean oil trunk pipe lines/ oil dispatch lines with a wire brush/ foam type ball called Pig
 - b. It is the cleaning the oil pipe lines with hot oil circulation
 - c. It is the cleaning of the oil pipe lines with steam
 - d. To clear the choking of the oil pipe line with hot water.

2. Why gas is to be dehydrated []
 - a. It may damage the compressor b. Dry gas price is more than wet gas
 - c. Some condensate can be recovered along with water
 - d. Moisture gas will damage the gas engines or gas turbines

3. Which separator can have more gas handling capacity than others of same capacity []
 - a. Horizontal separator b. Vertical separator c. Spherical separator d. Venturi separator

4. Absorption processes are generally most efficient when the partial pressures of the acid gases are relatively _____ []
 - a. Low b. Equal c. High d. Zero

5. The basic reason for processing raw natural gas []
 - a. Purification b. Separation c. Liquefaction d. All of the above

6. Volumetric efficiency is applicable to _____ []
 - a. Centrifugal b. Reciprocating c. Rotary d. All of the above

7. _____ is non-flammable and, consequently, large quantities are undesirable in a fuel []
 - a. Carbon Monoxide b. Carbon Dioxide c. Hydrogen d. Methane

8. The term dehydration means removal of _____ []
 - a. Hydrogen b. Alcohols c. Water d. Oxygen.

9. Solubility of water in natural gas _____ with temperature []
 - a. Increases b. No change c. decreases d. can't say

10. Moiller diagram gives relation between _____ []
 - a. Internal energy and enthalpy b. Enthalpy and Entropy
 - c. Entropy and work done d. Work done and heat added

II Fill in the blanks

11. Relation between Darcy's friction factor and Moody's friction factor is _____
12. Water content _____(increases/ decreases) the heating value of natural gas being transported.
13. _____ is a process in which gas flows through a bed of granular solids that have an affinity for water.
14. Ethylene Glycol formula is _____
15. The best economical method for dehydration of natural gas is cooling followed by _____
16. Horizontal Separators are generally used for _____ flowing fluids.
17. Hydrate formation is only possible if the temperature is less than _____
18. Three-phase vertical separator is most effective for fluids of _____.
19. The water droplets flow _____ to the oil in a 3-phase vertical separator.
20. Amines are compounds formed from _____

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