

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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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****III B.Tech. II Sem., II Mid-Term Examinations, April – 2014****NATURAL GAS ENGINEERING****Objective Exam**Name: \_\_\_\_\_ Hall Ticket No. 

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a. Low                      b. Equal                      c. High                      d. Zero
2. The basic reason for processing raw natural gas \_\_\_\_\_ [     ]  
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**Cont.....2**

**II Fill in the blanks**

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