

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**III B.Tech. II Sem., II Mid-Term Examinations, April – 2014****PETROLEUM PRODUCTION ENGINEERING****Objective Exam**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. The density of oil is pressure dependent because of []
a. Liquid content b. Gas content c. Dense particles d. Temperature
2. Reservoir deliverability does not depends on []
a. Fluid properties b. Wellbore radius c. Pay zone thickness d. Type of tubing string
3. In a Transient pressure analysis reservoir acts like an []
a. Small reservoir b. Infinite large boundary reservoir
c. Single phase reservoir d. None
4. The constant pressure boundary can be achieved by []
a. Water injection b. EOR c. Natural drive mechanism d. None
5. Single phase liquid flow exists in an oil well only when the well head pressure is []
a. Below bubble point pressure b. Above bubble-point pressure
c. Dew point pressure d. Critical pressure
6. Productivity Index above bubble point pressure is []
a. Independent of Production Rate b. Temperature is constant
c. Flow rate is same d. None
7. C_D is []
a. Choke value b. Choke friction factor c. Choke type d. Choke discharge factor
8. The pressure equations for a gas flow are derived based on []
a. Isentropic process b. Adiabatic process c. constant pressure d. None
9. Pressure drop and temperature drop associated with choke flow is important for a gas wells because of []
a. Hydrate formation b. Slug formation c. Change in velocity profile d. none
10. If the pressure ratio is less than the critical pressure ratio it's a _____ flow []
a. Sonic b. Subsonic c. Hypersonic d. Supersonic

Cont.....2

II Fill in the blanks

11. If oil dissolves more gas in reservoir condition than in stock tank condition, The formation volume factor of _____
12. The relation between bottom hole pressure and production rate is given by _____
13. When the radius of pressure wave propagation from wellbore has not reached any boundaries of the reservoir is a _____
14. The flow regime where pressure at any point in reservoir remains constant over time is a _____
15. C_A is given by _____
16. The slope of an IPR curve is given _____
17. Future IPR can be calculated by _____
18. For a laminar flow fanning friction constant is given by _____
19. The relation between fanning friction constant and moody's friction factor is given by _____
20. The critical pressure ratio for natural gas is about _____

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