

Code No:56100

Set No. 1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

III B.Tech. II Sem., II Mid-Term Examinations, April – 2014

SURFACE PRODUCTION OPERATIONS

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. What is the effect of “over-mixing” of fresh water and oil in the process of desalting []
a. Forming of tight emulsion b. Forming of unstable emulsion
c. Clear separation of water d. Deposition of solids
2. One of the most effective vessels of crude oil treating equipment used to remove only free water from the flow stream is []
a. FWKO b. Gunbarrel c. Electrostatic treater d. Heater-treater
3. What is the drawback for a stabilizer to achieve higher liquid recovery []
a. Higher CAPEX and OPEX b. Equipment designing problem
c. Technology problem d. Climate problems
4. Any water with the feed stream will collect in the ----- of the stabilizer due to the range of temperatures involved. []
a. From the bottom of the stabilizer b. From the second tray of the column
c. From the last but one tray of the column d. From the middle of the column
5. Which type of trays has very high turn down in the process of stabilization []
a. Bubble cap trays b. Sieve trays c. Valve trays d. High capacity trays
6. Flotation is a process where injection of fine ----- into water phases. []
a. Oil droplets b. Solid particles c. Gas bubbles d. Steam
7. Which method of produced water treatment will separate minimum oil drop size of 1+ Micron []
a. Gravity separation b. Plate coalescence
c. Multimedia membrane filtration d. Gas flotation
8. Which gas in dissolved gases in the water may promote bacteria growth in the formation []
a. Carbon dioxide b. Oxygen c. Hydrogen sulfide d. Ethane
9. Sand and other granular media beds are belong to which category of filters []
a. Fixed-pore filters b. Direct interception filter media
c. Nonfixed-pore filters d. Dissolved gas floatation
10. If fouling smell is severe from the filter media, what is to be done []
a. Back wash is to be carried out b. The type of filter media is to be replaced
c. Filter media is to be fluidized with higher velocity fluids
d. Filter media must be cleaned chemically or replaced.

Cont.....2

II Fill in the blanks

11. In general, the pressure drop across the globe valve to be maintained is _____ in desalting mixing process.
12. Upstream pre-mixing is commonly performed with _____ in desalting operations.
13. The average salt content of produced water in the Kesanapalli oil field of KG basin is _____
14. _____ is the process of increasing the amount of intermediate and heavy components in the liquid phase.
15. The equilibrium relationships apply only at pressure and temperature combinations in the area _____.
16. The hydrocarbon vapors leaving the top of the stabilizer contain almost none of the _____
17. _____ can be used to dissolve scales like CaCO_3 and FeS_2 .
18. _____ is used for settling of oil in the produced water treatment
19. _____ in the water may speed up the process of corrosion.
20. _____ law is applicable in the determination of drag coefficient in the gravity separation of suspended solids.

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Set No. 2

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Cont.....2

II Fill in the blanks

11. _____ is the process of increasing the amount of intermediate and heavy components in the liquid phase.
12. The equilibrium relationships apply only at pressure and temperature combinations in the area _____.
13. The hydrocarbon vapors leaving the top of the stabilizer contain almost none of the _____.
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18. In general, the pressure drop across the globe valve to be maintained is _____ in desalting mixing process.
19. Upstream pre-mixing is commonly performed with _____ in desalting operations.
20. The average salt content of produced water in the Kesanapalli oil field of KG basin is _____.

Set No. 3

III B.Tech. II Sem., II Mid-Term Examinations, April – 2014

Objective Exam

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

1. Flotation is a process where injection of fine ----- into water phases. []

a. Oil droplets b. Solid particles c. Gas bubbles d. Steam
2. Which method of produced water treatment will separate minimum oil drop size of 1+ Micron []

a. Gravity separation b. Plate coalescence
c. Multimedia membrane filtration d. Gas flotation
3. Which gas in dissolved gases in the water may promote bacteria growth in the formation []

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11. The hydrocarbon vapors leaving the top of the stabilizer contain almost none of the _____
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13. _____ is used for settling of oil in the produced water treatment
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18. The average salt content of produced water in the Kesanapalli oil field of KG basin is _____
19. _____ is the process of increasing the amount of intermediate and heavy components in the liquid phase.
20. The equilibrium relationships apply only at pressure and temperature combinations in the area _____.

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Set No. 4

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