



**UNIVERSITY OF PETROLEUM & ENERGY STUDIES  
DEHRADUN**

**End Semester Examination – April 2017**

**Program/course: B.Sc.(Petroleum Operations)**

**Semester – VI**

**Production**

**Code : PTEG 301**

**Duration : 3 Hrs**

**No. of page/s:1**

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**All questions are compulsory**

**SECTION A**

**Marks 60 (6\*10)**

1. What is the function of mist extractor in a separator?
2. Draw a labeled sketch of a three phase vertical separator.
3. What is condensable vapor in well fluid?
4. What is the importance of slenderness ratio for a separator? What is the general value?
5. Write the main reasons of sand production. What is critical flow rate in sand production?
6. What are pre-packed screens?
7. What is meant by EOR?
8. Write different EOR methods used in oil industry.
9. What is areal sweep efficiency of any fluid in EOR?
10. What are emulsions in oil industry? Write different types of oil water emulsions.

**SECTION B**

**Marks 40 (2\*20)**

**Attempt any two**

1. How gravel size is selected for gravel pack?
2. What are different methods of sand control? Explain one of them.
3. What is demulsification? What is chemical method of demulsification?

