

Code No: RT32271

**R13****SET - 1****III B. Tech II Semester Regular/Supplementary Examinations, April -2018****WELL COMPLETIONS**

(Petroleum Engineering)

Time: 3 hours

Max. Marks: 70

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Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)

2. Answering the question in **Part-A** is compulsory3. Answer any **THREE** Questions from **Part-B**

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**PART -A**

- |   |    |  |      |
|---|----|--|------|
| 1 | a) | Explain the purpose and function of multilateral completion? | [4M] |
|   | b) | Name any four the applications of well testing?              | [4M] |
|   | c) | Define a memory gauge?                                       | [3M] |
|   | d) | Explain the principle of perforated casing.                  | [4M] |
|   | e) | Explain the duty of a tester valve in DST tool?              | [4M] |
|   | f) | What is the reason to perform work over?                     | [3M] |

**PART -B**

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|---|----|---|-------|
| 2 | a) | Distinguish between perforated casing and multiple completions methods.                       | [8M]  |
|   | b) | What are the types of liners used for well completion and its purposes?                       | [8M]  |
| 3 | a) | Explain water jet perforation method.   | [6M]  |
|   | b) | Explain briefly about perforation equipments.   | [6M]  |
|   | c) | What is a retrievable packer?   | [4M]  |
| 4 | a) | How do you monitor a well at down hole?   | [10M] |
|   | b) | Explain about surface controlled subsurface safety valves with applications.                  | [6M]  |
| 5 | a) | What is the purpose of nitrogen while stimulating?  | [8M]  |
|   | b) | Explain about perforates joint and centrizers.  | [8M]  |
| 6 | a) | Explain how skin will be detected by DST tool?  | [8M]  |
|   | b) | How pressure and temperatures affects the design of tubing string?                            | [8M]  |
| 7 |    | What are the steps required to execute a horizontal well during work over?<br>Explain briefly | [16M] |

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