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|  | <b>Sanjay Ghodawat University, Kolhapur</b><br>Established as State Private University under Govt. of Maharashtra. Act No XL, 2017 | 2018-19<br>EXM/P/09/01                                    |
| <b>Year and Program: 2018-19</b>  | <b>School of Technology</b>  | <b>Department of Computer Science &amp; Engineering</b>   |
| <b>Course Code: CST210</b>  | <b>Course Title: Operating Systems</b>   | <b>Semester – IV</b>                                      |
| <b>Day and Date</b> <i>Saturday</i><br>Sat.25/05/2019                             | <b>End Semester Examination (ESE)</b>  | <b>Time:</b> 10:30 am to 1:30 pm<br><b>Max Marks: 100</b> |

**Instructions:**

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

| <b>Q.1</b> | <b>Attempt ANT TWO</b>   | <b>Marks</b> | <b>Bloom's Level</b> | <b>CO</b> |
|------------|--|--------------|----------------------|-----------|
| a)         | Define operating system. Give services of operating system.                          | 09           | L1                   | CO1       |
| b)         | Distinguish between serial programming and multiprogramming in detail.               | 09           | L4                   | CO1       |
| c)         | Describe the following<br>i) Time sharing systems<br>ii) Real time operating systems | 09           | L2                   | CO1       |
| <b>Q.2</b> | <b>Attempt the Following</b>   |              |                      |           |
| a)         | Explain with diagram different types of schedulers.                                  | 09           | L2                   | CO2       |
| b)         | Discuss process state transition diagram in detail.                                  | 09           | L2                   | CO2       |
|            | OR   |              |                      |           |
| b)         | Define semaphores. Give its implementation in detail.                                | 09           | L1                   | CO3       |
| <b>Q.3</b> | <b>Attempt any Two</b>   |              |                      |           |
| a)         | Explain dining philosopher problem as a classical problem of synchronization.        | 08           | L2                   | CO4       |
| b)         | Demonstrate the following Linux commands<br>i) cat<br>ii) mkdir                      | 08           | L3                   | CO4       |
| c)         | Describe Linux file system in detail.  | 08           | L1                   | CO4       |

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**Q.4 Attempt the following**

- a) Explain locate command in detail

08 L2 C04

**OR**

- a) Shows find command with its various options. .

08 L3 C04

- c) Illustrate SSH in Linux.

08 L3 C06

**Q.5 Attempt ANY TWO**

- a) Describe DHCP? Give it's configuration in Linux.

08 L2 C06

- b) Explain Network File System in detail.

08 L2 C05

- c) Discuss any four networking commands in Linux.

08 L2 C05

**Q.6 Attempt any TWO**

- a) Describe Linux Network namespaces in detail.

08 L2 C06

- b) Explain file Transfer Protocol in detail.

08 L2 C05

- c) Classify Domain Name System in detail.

08 L4 C04

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