



# PRESIDENCY UNIVERSITY

BENGALURU

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| Roll No. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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## Make Up Examinations – December 2025

Date: 26 – 12- 2025

Time: 9:30am – 12:30pm

|                              |  |                       |
|------------------------------|--|-----------------------|
| <b>School:</b> SOCSE         | <b>Program:</b> B. Tech (CSE)                    |                       |
| <b>Course Code :</b> CSE3050 | <b>Course Name :</b> Software Project Management |                       |
| <b>Semester:</b> MK          | <b>Max Marks:</b> 100                            | <b>Weightage:</b> 50% |

| CO - Levels  | C01       | C02       | C03       | C04       | C05 |
|--------------|-----------|-----------|-----------|-----------|-----|
| <b>Marks</b> | <b>24</b> | <b>26</b> | <b>26</b> | <b>24</b> |     |

### Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

### Part A

Answer ALL the Questions. Each question carries 2marks.

10Q x 2M=20M

|    |  |         |    |     |
|----|--|---------|----|-----|
| 1  | List out the categories of risks.                    | 2 Marks | L1 | C01 |
| 2  | State Pair Programming.                              | 2 Marks | L1 | C01 |
| 3  | State Defect tracking.                               | 2 Marks | L1 | C02 |
| 4  | Differentiate Verification and Validation.           | 2 Marks | L2 | C02 |
| 5  | List some of the Challenges in Supplier Management.  | 2 Marks | L1 | C02 |
| 6  | Define Customer Management.                          | 2 Marks | L1 | C03 |
| 7  | List some of the Challenges in Customer Management.  | 2 Marks | L1 | C03 |
| 8  | List some of the advantages of People Management.    | 2 Marks | L1 | C03 |
| 9  | Define CMM Levels.                                   | 2 Marks | L1 | C04 |
| 10 | Mention the different levels in test maturity model. | 2 Marks | L1 | C04 |

## Part B

### Answer the Questions

**Total 80 Marks.**

| <b>11.</b> | <b>a.</b> | <p>Estimate the Following for the Estimators using Delphi Estimate:</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Estimator</th> <th style="padding: 5px;">P</th> <th style="padding: 5px;">O</th> <th style="padding: 5px;">B</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">A</td> <td style="padding: 5px;">87</td> <td style="padding: 5px;">68</td> <td style="padding: 5px;">72</td> </tr> <tr> <td style="padding: 5px;">B</td> <td style="padding: 5px;">91</td> <td style="padding: 5px;">79</td> <td style="padding: 5px;">82</td> </tr> <tr> <td style="padding: 5px;">C</td> <td style="padding: 5px;">88</td> <td style="padding: 5px;">54</td> <td style="padding: 5px;">71</td> </tr> <tr> <td style="padding: 5px;">D</td> <td style="padding: 5px;">97</td> <td style="padding: 5px;">87</td> <td style="padding: 5px;">93</td> </tr> </tbody> </table> <p style="margin-left: 40px;">i) Find Average Estimate<br/>ii) Find Standard Error<br/>iii) Find Confidence Interval</p> | Estimator           | P         | O          | B | A | 87 | 68 | 72 | B | 91 | 79 | 82 | C | 88 | 54 | 71 | D | 97 | 87 | 93 | <b>10<br/>Marks</b> | <b>L2</b> | <b>CO1</b> |
|------------|-----------|---|---------------------|-----------|------------|---|---|----|----|----|---|----|----|----|---|----|----|----|---|----|----|----|---------------------|-----------|------------|
| Estimator  | P         | O   | B                   |           |            |   |   |    |    |    |   |    |    |    |   |    |    |    |   |    |    |    |                     |           |            |
| A          | 87        | 68  | 72                  |           |            |   |   |    |    |    |   |    |    |    |   |    |    |    |   |    |    |    |                     |           |            |
| B          | 91        | 79  | 82                  |           |            |   |   |    |    |    |   |    |    |    |   |    |    |    |   |    |    |    |                     |           |            |
| C          | 88        | 54  | 71                  |           |            |   |   |    |    |    |   |    |    |    |   |    |    |    |   |    |    |    |                     |           |            |
| D          | 97        | 87  | 93                  |           |            |   |   |    |    |    |   |    |    |    |   |    |    |    |   |    |    |    |                     |           |            |
|            | <b>b.</b> | <p>Identify the pros and cons of using Life Cycle Management.</p>   | <b>10<br/>Marks</b> | <b>L1</b> | <b>CO1</b> |   |   |    |    |    |   |    |    |    |   |    |    |    |   |    |    |    |                     |           |            |

**Or**

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|------------|-----------|--|---------------------|-----------|------------|
| <b>12.</b> | <b>a.</b> | <p>Calculate the Estimate to Completion, Variance at Completion, Cost Performance Index, Schedule Performance Index, To Complete Performance Index for the given data:</p> <p>EV = 21, PV = 28, AC= 61, BAC=91, Assume new Estimate as 80</p> <p>a) If we believe that both current cost and current schedule performance will impact future cost performance<br/>b) If we believe that future expenditures will occur at the original forecasted amount (no more delays of the same kind in future)<br/>c) If we believe the original conditions and assumptions are wrong.</p> | <b>10<br/>Marks</b> | <b>L3</b> | <b>CO1</b> |
|            | <b>b.</b> | <p>Draw and Explain a Software Life Cycle Diagram for this scenario "To Develop and Deploy applications like Online banking systems".</p>  | <b>10<br/>Marks</b> | <b>L2</b> | <b>CO1</b> |

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|------------|-----------|--|---------------------|-----------|------------|
| <b>13.</b> | <b>a.</b> | <p>Explain briefly Albrecht/IFPUG function point and solve the following:<br/>For a Organization, the following table summarizes the weightings to be used for computing Function points measures of a software having the following characteristics:</p> <p style="margin-left: 40px;">Number of user inputs: 12 (simple)<br/>Number of user outputs: 05 (simple)</p> | <b>10<br/>Marks</b> | <b>L2</b> | <b>CO2</b> |
|------------|-----------|--|---------------------|-----------|------------|

|  |           |   |                 |           |            |
|--|-----------|---|-----------------|-----------|------------|
|  |           | Number of user enquires: 05 (average)<br>Number of files: 09 (average)<br>Number of External interfaces: 05 (complex)<br>Calculate unadjusted function point measures of the size of the software system? |                 |           |            |
|  | <b>b.</b> | Explain the Coding methods of Software Construction.  | <b>10 Marks</b> | <b>L2</b> | <b>C02</b> |

**Or**

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|------------|-----------|---|-----------------|-----------|------------|
| <b>14.</b> | <b>a.</b> | Examine the Verification and Validation testing     | <b>10 Marks</b> | <b>L3</b> | <b>C02</b> |
|            | <b>b.</b> | Explain in detail about software Design Management. | <b>10 Marks</b> | <b>L2</b> | <b>C02</b> |

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|------------|-----------|---|-----------------|-----------|------------|
| <b>15.</b> | <b>a.</b> | Discuss the factors to be taken into account while allocating individuals to tasks.   | <b>10 Marks</b> | <b>L3</b> | <b>C03</b> |
|            | <b>b.</b> | Suppose you are the project manager of a large software development project. List three common types of risks that your project might suffer. Point out the main steps that you would follow to effectively manage risks in your project. | <b>10 Marks</b> | <b>L3</b> | <b>C03</b> |

**Or**

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|------------|-----------|--|-----------------|-----------|------------|
| <b>16.</b> | <b>a.</b> | Examine the Statement "When a test case passes, this means that the application is working fine and vice versa". Discuss in detail | <b>10 Marks</b> | <b>L3</b> | <b>C03</b> |
|            | <b>b.</b> | Write short notes on Rapport Building Management, Reporting Management and Bottom Line in Customer Management.                     | <b>10 Marks</b> |           |            |

|            |           |   |                 |           |            |
|------------|-----------|---|-----------------|-----------|------------|
| <b>17.</b> | <b>a.</b> | Explain in detail about Software Monitoring Management Tools.                   | <b>10Marks</b>  | <b>L3</b> | <b>C04</b> |
|            | <b>b.</b> | Explain in detail about Organization structure and policies of Team Management. | <b>10 Marks</b> | <b>L3</b> | <b>C04</b> |

**Or**

|            |           |   |                 |           |            |
|------------|-----------|---|-----------------|-----------|------------|
| <b>18.</b> | <b>a.</b> | Mention the baseline in the context of Software Configuration Management? How do baselines get updated to form new baselines? Illustrate the statement. | <b>10Marks</b>  | <b>L3</b> | <b>C04</b> |
|            | <b>b.</b> | Illustrate the different types of Standards used in Software Process Standards and Improvements.  | <b>10 Marks</b> | <b>L3</b> | <b>C04</b> |