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 **PRESIDENCY UNIVERSITY**

  **Bengaluru**

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| **End - Term Examinations – JANUARY 2025** |
| Date: 07 -01- 2025 Time: 09:30 am – 12:30 pm |

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| --- | --- |
| **School:** SOCSE | **Program:** B. Tech-CCS/CIT/CSG/CST/CDV/CBC/CBD |
| **Course Code :** CSE3050 | **Course Name :** Software Project Management |
| **Semester**: VII | **Max Marks**:100 | **Weightage**: 50% |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CO - Levels** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| **Marks** | **24** | **26** | **26** | **24** |  |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Do not write anything on the question paper other than roll number.*

**Part A**

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| **Answer ALL the Questions. Each question carries 2marks. 10Q x 2M=20M** |
| **1** | List out the causes of risks. | **2 Marks** | **L1** | **CO1** |
| **2** | State Effort Estimation Techniques. | **2 Marks** | **L1** | **CO1** |
| **3** | State Defect tracking. | **2 Marks** | **L1** | **CO2** |
| **4** | Differentiate Verification and Validation. | **2 Marks** | **L2** | **CO2** |
| **5** | List some of the Challenges in Customer Management. | **2 Marks** | **L1** | **CO2** |
| **6** | Define Pair Programming.  | **2 Marks** | **L1** | **CO3** |
| **7** | List some of the Challenges in Customer Management.  | **2 Marks** | **L1** | **CO3** |
| **8** | List some of the advantages of Team Management.  | **2 Marks** | **L1** | **CO3** |
| **9** | Define CMM  | **2 Marks** | **L1** | **CO4** |
| **10** | Mention the different levels in test maturity model. | **2 Marks** | **L1** | **CO4** |

**Part B**

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| **Answer the Questions Total 80 Marks.** |
| **11.** | **a.****b.** | Estimate the Following for the Estimators using Delphi Estimate:

|  |  |  |  |
| --- | --- | --- | --- |
| **Estimator** | **P** | **O** | **B** |
| DEEPAN | 87 | 62 | 70 |
| ALAN | 91 | 72 | 80 |
| MELANIE | 88 | 50 | 70 |
| TONYA | 97 | 88 | 95 |
| ALANA | 91 | 90 | 87 |

1. Find Average Estimate
2. Find Standard Error
3. Find Confidence Interval

Identify the pros and cons of using Software Process Management. | **10****Marks****10 Marks** | **L2****L1** | **CO1****CO1** |
| **Or** |
| **12.** | **a.****b.** | Calculate the Estimate to Completion, Variance at Completion, Cost Performance Index, Schedule Performance Index, To Complete Performance Index for the given data:EV = 43, PV = 23, AC= 56, BAC=91, Assume new Estimate as 901. If we believe that both current cost and current schedule performance will impact future cost performance
2. If we believe that future expenditures will occur at the original forecasted amount (no more delays of the same kind in future)
3. If we believe the original conditions and assumptions are wrong.

Draw and Explain a Software Life Cycle Diagram for this scenario “To Develop and Deploy applications like Online banking systems“. | **10****Marks****10****Marks** | **L3****L2** | **CO1****CO1** |
|  |  |  |  |  |  |
| **13.** | **a.****b.** | Explain briefly Albrecht/IFPUG function point and solve the following: For a Organization, the following table summarizes the weightings to be used for computing Function points measures of a software having the following characteristics:Number of user inputs: 10 (simple)Number of user outputs: 07 (simple)Number of user enquires: 03 (average)Number of files: 06 (average)Number of External interfaces: 01 (complex)Calculate unadjusted function point measures of the size of the software system?Do you agree with the following statement: “Few, if any, organization in the real world is purely functional, project or mixture in nature”, Justify and summarize your answer. | **10****Marks****10 Marks** | **L2****L2** | **CO2****CO2** |
| **Or** |
| **14.** | **a.****b.** | Examine the following scenario and do Verification and Validation for the necessities“A Software house has developed a customized order processing system for a client. Assume you are an employee of the software house that has been asked to organize a training course for the end-users of the system. At present, a user handbook has been produced, but no specific training material. A plan is now needed for the project which will set up the delivery of the training courses. The project can be assumed to have been completed when the training course starts. Among the things that will need to be considered are the following:* Training materials will need to be designed and created;
* A Time table will need to be drafted and agreed;

Explain in detail about software Design Management. | **10****Marks****10****Marks** | **L3****L2** | **CO2****CO2** |

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| **15.** | **a.****b.** | Discuss the factors to be taken into account while allocating individuals to tasks. 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.  | **10****Marks****10****Marks** | **L3****L3** | **CO3****CO3** |
| **Or** |
| **16.** | **a.****b.** | Examine the Statement “When a test case passes, this means that the application is working fine and vice versa”. Discuss in detail Write short notes on Negotiation Management, Rapport Building Management, Reporting Management and Bottom Line in Customer Management.  | **10 Marks****10****Marks** | **L3** | **CO3** |

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| **17.** | **a.****b.** | Explain in detail about Software Testing Management Tools. Explain in detail about Organization structure and policies of Team Management.  | **10Marks****10 Marks** | **L3****L3** | **CO4****CO4** |
| **Or** |
| **18.** | **a.****b.** | Examine the Statement “ABC Project has time to be rechecked with the components implemented and executed. Also to be tested with the time scheduled for each process. Mention the baseline in the context of software Configuration Management? How do baselines get updated to form new baselines?  | **10 Marks** **10 Marks** | **L3****L3** | **CO4****CO4** |

**\*\*\*\*\* BEST WISHES \*\*\*\*\***