B.Sc. Course (CBCS) Ordinance (Semester V)

PRACTICAL EXAMINATION, OCTOBER/ NOVEMBER 2024

COMPUTER SCIENCE : CSC107 - SOFTWARE ENGINEERING

[DURATION: 4 HOURS] [TOTAL NO. OF PAGES: 01] [MAX. MARKS: 50]

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Instructions: All questions are compulsory.

Answer the following questions:

|  |  |  |
| --- | --- | --- |
| Q1. A) | Create a Scrum board with five suitable user stories for an online electronic store. | (5 marks) |
| B) | Create a Burndown chart using the given data.   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Tasks | No. of hrs estimated  per task | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | | task1 | 5 | 2 | 1 | 1 | 0 | 1 | | task2 | 6 | 2 | 1 | 2 | 1 | 0 | | task3 | 8 | 1 | 3 | 3 | 1 | 0 | | task4 | 7 | 1 | 2 | 1 | 1 | 2 | | task5 | 8 | 3 | 2 | 1 | 2 | 0 | | task6 | 5 | 1 | 2 | 2 | 0 | 0 | | task7 | 4 | 2 | 0 | 0 | 2 | 0 | |  | | | | | | | | Total Hours | 43 | 12 | 11 | 10 | 7 | 3 | | (5 marks) |
| Q2. A) | Implement a Java class and perform the following:   1. Design a test case using Junit to test the above functionality. 2. Perform Debugging and generate Java documentation. | (4 marks)  (3 marks) |
| B) | Automate any login web page using Selenium in Java. | (3 marks) |
| Q3. A) | Using GIT, create a local repository and perform various operations on it. | (5 marks) |
| B) | Perform the following refactoring techniques - extract a method and pull up in Java. | (5 marks) |
|  | Viva. | (10 marks) |
|  | E-Journal/ Performance. | (10 marks) |

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Instructions: All questions are compulsory.

Answer the following questions:

|  |  |  |
| --- | --- | --- |
| Q1. A) | Create a Scrum board with five suitable user stories for an online library system. | (5 marks) |
| B) | Create a Burndown chart using the given data.   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Tasks | No. of hrs estimated  per task | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | | task1 | 8 | 2 | 2 | 2 | 1 | 1 | | task2 | 6 | 1 | 1 | 2 | 1 | 1 | | task3 | 8 | 2 | 3 | 2 | 1 | 0 | | task4 | 7 | 1 | 2 | 1 | 1 | 2 | | task5 | 8 | 3 | 2 | 1 | 2 | 0 | | task6 | 5 | 1 | 2 | 1 | 1 | 0 | | task7 | 5 | 1 | 1 | 1 | 1 | 1 | |  | | | | | | | | Total Hours | 47 | 11 | 13 | 10 | 8 | 5 | | (5 marks) |
| Q2. A) | Implement a Java class and perform the following:   1. Design a test case using Junit to test the above functionality. 2. Perform Debugging and generate Java documentation. | (4 marks)  (3 marks) |
| B) | Automate any web page using Selenium in Java. | (3 marks) |
| Q3. A) | Using GIT, create a local repository and perform various operations on it. | (5 marks) |
| B) | Perform the following refactoring techniques rename and push down in Java. | (5 marks) |
|  | Viva. | (10 marks) |
|  | E-Journal/ Performance. | (10 marks) |

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