

Programme Name & Branch : M.Tech (SE)

: ISWE101L

: Software Engineering

: Prof. JAGADEESAN S, Prof. KARTHIKEYAN P, Prof. S. BHATTACHARYA, Prof. JAGADEESH G, Prof. KRITHIKA LB

Class Number(s) : VL2023240105858, VL2023240105861, VL2023240105856, VL2023240105860, VL2023240105854,

Exam Duration : 90 minutes
Maximum Marks: 50

General instruction(s):

• Only hand written notebooks and text books permitted

Q. No	Question	Marks
1.	Consider the scenario of an online Doctor's appointment booking system. The users view various booking slots available and select the preferred date and time. The already booked space will be marked yellow and will not be available for anyone else for the specified time. This system also allows users to cancel their booking anytime. The system provides an additional feature of calculating monthly earnings of doctor. Doctor has to just feed the system regularly with daily earnings and the system automatically generates a report of total amount earned at the end of the month	10
2.	Consider the scenario in Question 1 and justify the importance of each of the 10 design principles in the design of this system.	10
3.	Discuss how designing email application system would be different from designing an e-commerce application from the perspective of architectural pattern.	10
4.	You are testing a Travel and Tourism website. The system enables users to look for available travel packages. Users can register to the website providing their profile information and pay an amount of INR1500 for registration. The system then generated login id and password for the users and sends to their email id. Moreover, this system also has a chatbot to help improve user-friendliness. The users after successful login can perform hotel booking, flight booking and cab booking from the website. Develop test cases for this system and mention expected results for each of the cases.	10
5.	Perform Equivalence class partitioning and boundary value analysis for a banking system considering the following scenarios: 1. Profile name is of 6 to 16 characters, first character should not be a number. 2. Account number be minimum 11 digits, first two digits should be non-zero, should not have any alphabets or special characters.	10

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