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**Presidency University**

**Bengaluru**

**SCHOOL OF ENGINEERING**

**MAKE-UP EXAMINATION JULY 2024**

**Winter Semester**: 2021 - 22

**Course Code**: CSE2014

**Course Name**: SOFTWARE ENGINEERING

**Program & Sem**: B.Tech.

**Date**: 18.07.2024

**Time**: 01.30 pM to 04.30 PM

**Max. Marks**: 100

**Weightage**: 50%

 **Instructions:**

1. *Read the all questions carefully and answer accordingly.*

**Part A [Memory Recall Questions]**

**Answer all the Questions. Each question carries FIVE marks. (04Q x 05M = 20M)**

1. List the Principles to be followed by the software engineers. Discuss. [C.O. No. 1] [Knowledge]

2. Illustrate about functional and non functional requirements.

 [C.O. No. 2] [Knowledge]

3. Give the types of Stakeholders? Also discuss their roles. [C.O. No. 3] [Knowledge]

4. Briefly explain advantages of prototype model with a neat diagram. [C.O. No. 4] [Knowledge]

**Part B [Thought Provoking Questions]**

**Answer all the Questions. Each question carries FIFTEEN marks. (04Q x 15M = 60M)**

5. ABC Software limited developing projects based on the customer’s requirement. The customer has

 provided well defined requirements to the developer. Developer has confusion to decide waterfall

 model or Iterative water fall model. Help the developer by comparing both models and justify which

 model will be more suitable here. [C.O. No. 1] [Comprehension]

6. Consider you are developing project for D-mart supermarket. After identifying the client needs

 Explain how do you analyze requirements in the project. Discuss briefly.

 [C.O. No. 2] [Comprehension]

7. Discuss why Agile methodology is used to develop the software projects. Justify. [C.O. No. 3] [Comprehension]

8. Mr. Joseph wants to transfer money to his wife from his bank account. For completing this transaction,

 he needs to enter OTP. The OTP should be between 4 to 6 digits/number. Using Equivalence

 Partitioning and Boundary value analysis techniques, find and generate the test cases for valid and

 invalid OTP. [C.O. No. 4] [Comprehension]

**Part C [Problem Solving Question]**

 **Answer the following Question. It carries TWENTY marks. (01Q x 20M = 20M)**

9. In the Web, the site user wants to search for documents, browse documents, and view events. These are the functionality the user wants to do. The download and preview documents are the use cases too, and they are in relation to each other based on user requirements. The webmaster upload documents, post new events to the homepage and add a user and these use cases are in relation with the managed folders and add company but still based on what the actor wants. Draw use case diagram for the above scenario.

(a) Choose a list of actors and use cases from the problem statement provided above.

(b) Develop a use case diagram for the above scenario.

 (C.O.No.2) [Application]