SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)
(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.
B.Sc. CS - END SEMESTER EXAMINATIONS APRIL - 2024
SEMESTER - VI
22UCSCT6010 -Software Engineering And Testing

Total Duration : 2 Hrs. 30 Mins.   Total Marks : 60

Section B

Answer any **SIX** questions $(6 \times 5 = 30$ Marks$)$

1. Define and discuss the core components of Software Engineering, including the software process.

2. Describe the requirement analysis in software engineering.

3. Discuss the steps involved in interface analysis. What techniques can be used to understand user needs, preferences, and tasks.

4. Determine the process of system testing in software engineering and relate the objectives of system testing.

5. Elucidate the Waterfall model in Software Engineering.

6. Explain the key concepts in data modeling, such as entities, attributes, and relationships.

7. Explain the 'golden rules' of user interface design, and why are they important in creating effective user interfaces.

8. Distinguish between verification and validation.

Section C

Answer any **THREE** questions $(3 \times 10 = 30$ Marks$)$

9. What is CMMI (Capability Maturity Model Integration) in the context of Software Engineering? Describe the key components of CMMI and explain.

10. Describe Incremental process model in Software Engineering. How do Incremental process models differ from traditional sequential models like Waterfall?

11. Explain about requirement Engineering and what are the steps involved in the Requirement Engineering process.

12. Describe decomposition level of abstraction and Modularity concepts in software Design.

13. Discuss the difference between black box and white box testing.

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