GIET UNIVERSITY, GUNUPUR – 765022

M. C.A. (Third Semester) Examinations, January – 2023

MCA20304– SOFTWARE ENGINEERING

Time: 3 hrs   Maximum: 70 Marks

(The figures in the right hand margin indicate marks.)

PART – A   **(2 x 10 = 20 Marks)**

Q.1. Answer *ALL* questions

a. Explain about project scheduling?

b. List out the disadvantages of spiral model.

c. Define functional requirement with an example.

d. Discuss about requirement validation?

e. Elaborate the concept of Information Hiding and Functional Independence.

f. Determine the importance of user analysis.

g. Demonstrate about boundary value analysis in black box testing.

h. Describe about debugging process.

i. List the principles of a software design**.**

j. Discuss about alpha and beta testing.

PART – B   **(10 x 5 = 50 Marks)**

Answer *ANY FIVE* questions   Marks

2. a.	Explain "Software myth"? Discuss on various types of software myths and the true aspects of these myths.	5
b.	Explain briefly about the Spiral model with neat sketch.	5
3. a.	Demonstrate the uses of Use cases in requirements elicitation and analysis with an example.	5
b.	What is interviewing? Explain different types of interviews.	5
4. a.	Design the Use case Diagram for ATM card withdrawal system.	7
b.	List out the golden rules for interface design.	3
5. a.	Explain about various software implementation techniques.	5
b.	Fixing bugs is dangerous. Why?	5
6. a.	Explain in detail about LOC-based and FP-based estimation with an example.	5
b.	Identify various functional and non-functional requirements that may be defined for library based system.	5
7. a.	Explain briefly about transform Analysis with an example.	5
b.	Discuss in detail about basis path testing and explain its importance.	5
8.	Write short notes on	10

      i.   Software Risk
     ii.   Data Dictionary
    iii.   CASE Tool
    iv.   Reverse Engineering

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