SCHOOL OF COMPUTER APPLICATION

BBDU

Roll No.	1	2	2	0	2	5	8	0	8	2

BCA Second Sessional Tests 2023-2024

Third Semester

BCADS1303: Software Engineering

Time:3Hours Max. Marks: 60

(Section A)

Q.1: Attempt all Questions: (1*8=8)

(a) Define Coupling?
(b) What are various characteristics of software?
(c) What are disadvantages of waterfall model?
(d) What are differences between Fault and Failure?
(e) Write short note on Data dictionary.
(f) What do you mean by Reverse Engineering?
(g) Discuss the differences between black box and white box testing
(h) Whatdo you mean by Code walkthrough?

(Section B)

Q2. Attempt any TWO: (6*2=12)

(a) What is testing? Explain the different types of testing.
(b) Create level 1 DFD for food ordering system
(c) Explain the incremental process model with advantages and disadvantages.
(d) Write about Software Quality Assurance with their levels.

(Section C)

Q3. Attempt any Two: (5*2=10)

(a) What is software maintenance? Explain in detail.
(b) Explain the Software development lifecycle briefly.
(c) Describe the COCOMO Model of Software engineering.

Q4. Attempt any Two: (5*2=10)

(a) What are Software Metrices? How Software measurement and metrices are important in Software engineering.

(b) Create an ER diagram for hospital management system

(c) Define SRS. Also List desirable characteristics of a good SRS document.

Q5. Attempt any Two: (5*2=10)

(a) Explain the software engineering; what do you understand by the term "software"? Discuss

(b) Explain different types of Coupling? What is better high coupling or low coupling?

(c) What do you understand by Software measurements? Why it is necessary for Software.

Q6. Attempt any Two: (5*2=10)

(a) Explain the fundamental software design concepts in detail.

(b) What is the difference between Function-Oriented Design and Object-Oriented Design?

(c) What is a prototype model? Under what circumstances is it beneficial to construct a prototype model?