

Roll No.

Total No. of Questions : 07]

AIM LIBRARY

[Total No. of Pages : 02

BCA (Sem. - 3rd)
SOFTWARE ENGINEERING
SUBJECT CODE : BC - 303
Paper ID : [B0211]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.

Section - A

Q1)

(10 × 2 = 20)

- a) What are various characteristics of software?
- b) What are disadvantages of waterfall model?
- c) What is ER Diagram? List various notations used in ER Diagram.
- d) What is use of data dictionary?
- e) What are objective of software design?
- f) What are objective of testing? Explain.
- g) What are differences between unit and system testing?
- h) What are various principles of structured analysis?
- i) What is abstraction and encapsulation? Explain.
- j) Explain how verification is different from validation.

AIM LIBRARY
Section - B

(4 × 10 = 40)

- Q2)** What is software process model? Explain the advantages and disadvantages of spiral model and prototyping model.
- Q3)** Write a note on the following :
- (a) Role of metrics.
 - (b) Principles of software Engineering.
- Q4)** What is project management? Explain various activities of project management.
- Q5)** What is cost estimation? Explain various cost estimation techniques. Discuss how COCOMO helps in cost estimation.
- Q6)** What is context level DFD? Create and explain DFD for university examination system.
- Q7)** Write note on the following :
- (a) Black box and White box testing.
 - (b) Procedural design.

