Il No.

Total Pages: 03

GSM/D-23

1130

SOFTWARE ENGINEERING BCA-234

ne: Three Hours]

[Maximum Marks: 80

from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

Explain the following terms in brief:

2×8=16

- (a) What is the need of metrices?
- (b) What are the phases of software development?
- (c) Differentiate between verification and validation.
- (d) Define Data Flow Diagram.
- (e) What are goals of SRS document?
- (f) What is requirement analysis?
 - (g) Define Context diagram.
 - (h) Define Data Dictionary.

Unit I

- (a) Discuss major areas of applications of the software.
- (b) What is Software Crisis? What are its causes?

2×8=16

3. What is Software life cycle? Discuss the generic water model and prototype model.

Unit II

- 4. (a) Explain the term validation. What are the differ types of errors possible in SRS?
 - (b) What is the need of SRS?
- 5. Write short notes on the following:
 - (i) Components of an SRS
 - (ii) Requirement validation
 - (iii) Requirement management.

Unit III

- 6. (a) What do you mean by decision table? What the main parts of decision tables?
 - (b) What do you mean by structured English? Explicitly with suitable example.
- 7. What is software Maintenance? Explain its types characteristics.

Unit IV

| 8. | (a) | What are testing objectives and testing principles i | |
|----|-------|--|---|
| | | Software design? | 8 |
| | (b) | Explain Software Maintenance Process. | 8 |
| 9. | Diffe | erentiate between the following | 6 |
| | (i) | Alpha and Beta testing | Ü |
| | (ii) | Verification and Validation | |
| | (iii) | Black box and White box testing. | |