

S.D.E.

B.C.A. (2004 COURSE SEM- IV : WINTER - 2017

SUBJECT: SOFTWARE ENGINEERING

Day: Wednesday
Date: 20/12/2017

Time: 02.00 PM TO 05.00 PM
Max. Marks: 80

W-2017-4165

N.B:

- 1) Attempt **ANY FIVE** questions from Section-I and **ANY TWO** questions from Section-II.
 - 2) Answers to both the sections should be written in **SEPARATE** answer book.
-

SECTION-I

- Q.1** Explain white box testing in detail. (10)
- Q.2** Explain waterfall model and spiral model in detail. (10)
- Q.3** Explain Architecture design with its types. (10)
- Q.4** What are the skill sets required by system analyst? Explain each in detail. (10)
- Q.5** What are the principles of Software Engineering? (10)
- Q.6** Explain the steps in software requirement gathering. (10)
- Q.7** Write short notes on **ANY TWO** of the following: (10)
- a) Decision Tables
 - b) Qualities required for a team leader
 - c) Difference between Software Engineering and Programming

SECTION-II

- Q.8** Consider a 'Life Insurance Corporation' system and draw the following : (15)
- i) Context Level DFD
 - ii) First Level DFD
 - iii) Decision Table
- Q.9** Draw a decision tree and table for the following case. (15)
- If total income is less than Rs. 22,000 then no tax is deducted
If income is between Rs. 22,000 to Rs. 30,000 deduction is 20% of the amount that exceeds Rs. 22,000.
If total income exceeds Rs. 1,00,000 then tax is Rs. 27,600 + 50% of the amount that exceeds Rs. 1,00,000.
- Q.10** a) Explain logic modelling of software. (07)
- b) Explain Testing Process in detail. (08)

* * * * *