

M.Sc. 1st Semester Examination, 2019

COMPUTER SCIENCE

(Software Engineering and Project Management)

PAPER –COS-104

Full Marks : 50

Time : 2 hours

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

SECTION – I

1. Answer any *four* questions : 2 × 4

(a) What is project planning ?

(b) Define the term verification and validation ?

(c) What do you mean by "phase containment of error" ?

- (d) What is SDLC ?
- (e) Define Test case and Test Suite.
- (f) Differentiate between black box and white box view.

SECTION – II

3. Answer any *four* questions : 4 × 4
- (a) Explain the different activities carried out in requirement analysis and specification phase of SDLC ? 4
- (b) What is Risk ? Briefly describe the different types of risk that a software may under goes during its development. 1 + 3
- (c) Write a short note on basic COCOMO. 4
- (d) Explain the characteristics of a good design ? 4
- (e) Briefly describe the structure of SRS ? 4
- (f) Differentiate between Black box testing approach with white box testing approach. 4

SECTION – III

3. Answer any *two* questions : 8 × 2
- (a) With the help of the Schematic diagram explain the working principle of RAD model of software development. 2 + 6
- (b) What is cohesion ? Explain the different types of cohesion ? 2 + 6
- (c) What is software testing ? Briefly explain the different types of testing carried out in a major project of software development. 2 + 6
- (d) Draw a DFD upto 3rd level of online admission system along with its context diagram. 6 + 2

[*Internal Assessment* : 10 Marks]
