

2018

M.Sc. 1st Seme. Examination

COMPUTER SCIENCE

PAPER—COS-104

Full Marks : 50

Time : 2 Hours

The figures in the margin indicate full marks.

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

Illustrate the answers wherever necessary.

Software Engineering & Project Management

Section-I

1. Answer any four questions : 4×2

- (a) What do you mean by "phase containment of error" ?
- (b) Define 'phase entry' & 'phase exit' level criteria.

(Turn Over)

- (c) What is SDLC ?
- (d) What do you mean by the term "test case" & "test suite" ?
- (e) What are the major reason of software crisis ?
- (f) Why spiral model of software development is also known as Meta model ?
- (g) What do you understand by the term "verification" & "validation" with respect to software testing ?
- (h) What is Risk ?

Section-II

2. Answer any *four* questions : 4×4
- (a) What is Feasibility Study ? Mention the major three types of feasibility study or analysis done prior to the development of a project. 1+3
 - (b) What is SRS ? Why we need SRS ? What are the characteristics of a SRS ? 1+1+2
 - (c) Compare the different types of software process model available for software developments.

- (d) Draw a level 1 DFD for online examination system.
- (e) Briefly explain different types of approaches used to design test cases.
- (f) As an analyst what should be the organisation of the SRS of your software ?
- (g) "A Design is said to be good one if it here high cohesion & low coupling." — Justify.
- (h) Write a short note on Basic COCOMO.

Section-III

3. Answer any *two* questions : 2×8
- (a) With a precise narrative description, explain the different activities carried out in the prototyping model of software development ? Also mention the advantages & disadvantages of the model. 5+3
 - (b) What is SA/SD methodology of software design ? Differentiate between function oriented design approach and object oriented design approach. 3+5

- (c) What is software configuration management? Briefly explain the different activities carried out in Software Configuration Management? 2+6
- (d) What is Testing? Explain different types of software testing carried out in a major project of software development? 2+6

Internal Assessment — 10
