BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)

Term-End Examination

June, 2024

BCS-051 : INTRODUCTION TO SOFTWARE ENGINEERING

Time : 3 Hours   *Maximum Marks : 100*

Weightage : 75%

Note : *Question No. 1 is compulsory and carries 40 marks. Attempt any **three** questions from the rest.*

1. (a) Develop SRS for *Online Assignment Submission System (OASS)* for students of various courses of university. SRS should be in IEEE format. Make necessary assumptions.   25

(b) Explain Rapid Application Development (RAD) approach for Software Development. What are the advantages and disadvantages of RAD approach over Waterfall model. 10

(c) Explain any *five* key features of Function Oriented Design. 5

2. (a) Draw the zero and first level DFDs for OASS. Make necessary assumptions. 10

(b) Draw GANTT chart for the development of OASS. 10

3. (a) Draw ERD for OASS. Make necessary assumptions. 10

(b) Define *Data Dictionary*. Consider a Data Element *Student*. What information about *Student* is stored in Data Dictionary ? 10

4. (a) Explain the methodology for identification of objects in Object Oriented Design with an example. 10

(b) Explain the terms 'Module Testing' and 'Integration Testing'. 10

5. (a) Explain various challenges for successful debugging. 10

(b) List any *five* software testing tools indicating the testing phase in which they can be employed. 10

BCS–051