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Total No. of Questions : 07

Total No. of Pages : 02

BCA (Sem–4)
SOFTWARE ENGINEERING
Subject Code : UGCA1921
M.Code : 79725
Date of Examination : 07-06-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Answer briefly :

   i)   What is SRS and why it is used?

   ii)   What is Perspective Process Model?

   iii) What is Object Oriented Design?

   iv)   What are the metrics used for software testing?

   v)   How decision tree is used in Software Engineering?

   vi)   What are characteristics of a good software design?

   vii) When and how decision tree and decision model is used?

   viii) Discuss some features of a design document.

   ix)   What are metrics for design model?

   x)   What is Software Engineering?

1 |

SECTION-B

2. What is difference between functional and non functional requirements? Explain with an example.

3. In 2017, a well-known organization 'A' is planning to develop a large product 'B'. Product 'B' would be comparable to a well-known Product 'C' but would be targeted to Operating system 'D'. At this time, no other vendor is planning to develop such product for Operating System 'D'. What life cycle model would you use? Briefly justify your answer and also explain the model.

4. Match the following:-

   (a) Unit test   (i) Requirements c

   (b) System test   (ii) Design a

   (c) Validation test   (iii) Code b

   (d).Integration test   (iv) System Engineering d

   And also, give explanation of each type of testing.

5. What is difference between Coupling and Cohesion? Explain with an example.

6. Assume that the project needs to be terminated early. In this scenario, how do you get off the spiral model? What will be the disadvantages of spiral model in this scenario?

7. What is software cost estimation and how it is measured? Give an example to support your answer.