Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02
Total No. of Questions : 18

PGDCA (2019 Batch) (Sem.–2)
SOFTWARE ENGINEERING
Subject Code : PGCA-1912
Paper ID : 77841

Time : 3 Hrs.   Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :
  1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
  2. SECTION - B & C. have FOUR questions each.
  3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
  4. Select atleast TWO questions from SECTION - B & C.

SECTION-A

Write briefly :

Q1 What is software engineering?

Q2 Mention any two characteristics of an incremental process model.

Q3 Differentiate personal team process from team software process.

Q4 What is top down and bottom up design approach?

Q5 How unit testing and integration testing differs from each other?

Q6 Outline the concept of debugging in software testing.

Q7 In which design types one can use control structure testing?

Q8 Write one metric each for requirements model and design model.

Q9 Differentiate verification from validation in software development process.

Q10 What is software restructuring?

SECTION-B

Q11 Differentiate the working and characteristics of prescriptive process model i.e., waterfall model from a specialized process model i.e., component based development.

Q12 Explain the unified process and the working of its phases in detail.

Q13 Describe the complete process of Requirements Engineering. Further, explain the components in building of Analysis Model.

Q14 Elaborate the following with respect to Design Model :

a) Interface Design Elements

b) Component-Level Design Elements

SECTION-C

Q15 Comment upon the economics of Reengineering.

Q16 How is validation an important aspect of software testing? Take an application example and explain with respect to validation testing benefits.

Q17 What is a Software Metric? Explain the different types of metrices in the Process and Project domains in detail.

Q18 Write short notes on following :

a) Reverse Engineering and Forward Engineering

b) White-Box Testing and Black-Box Testing

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.