576366(76)/676566(76)

M. B. A. (Third Semester) Examination, Nov.-Dec. 2021

(New Scheme)

(Management Branch)

(Specialization : System Management)

SOFTWARE ENGINEERING & PROJECT MANAGEMENT

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 32

Note : All question carry equal marks. Part (a) of each question is compulsory. Attempt any **two** parts from (b), (c) and (d).

Unit-I

1. (a) Why SRS is important. Explain.   2

(b) What is the advantage of using prototype software

development model instead of waterfall model? Also explain the effect of defining a prototype on the overall cost of the software project? 7

(c) Explain decision tree and decision table with the help of an example. 7

(d) As being a software project manager you have got the responsibility to develop a project in record time with accuracy, you are supposed to use reusable components while development so which software process model you would adopt and why? 7

Unit-II

2. (a) Define Quality assurance. 2

(b) Assume that the size of an organic type software product has been estimated to be 32,000 lines of source code. Assume that the salary of software engineer is 15000 per month. Determine the effort and the total development time required to develop the software product. Also calculate cost of the product. 7

(c) Explain COCOMO in detail. 7

(d) What is Risk. Explain RMMM in detail. 7

Unit-III

3. (a) Give various characteristics of a good design. 2

(b) Explain various Software Configuration Management Tasks in detail. 7

(c) Explain various types of Cohesion and Coupling with example. 7

(d) What are CASE tools? Write use of CASE tools is various phases of software development. 7

Unit-IV

4. (a) Explain Alpha and Beta testing. 2

(b) Explain White Box Testing and Black Box Testing. 7

(c) Explain various levels of testing. 7

(d) What is debugging? Why we need debigging explain its importance? 7

Unit-V

5. (a) What is structural modeling? 2

(b) Explain software re-engineering process model. 7

(c) Explain Reverse engineering process. 7

(d) Write short note on CMM 7