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J-3596[S-1452]   [2037]

B.Sc. (BI) (Semester - 6th)
SOFTWARE ENGINEERING (B.Sc. (BI) - 604)

Time : 03 Hours   Maximum Marks : 75

Instruction to Candidates:

1) Section - A is **compulsory.**

2) Attempt any **Nine** questions from Section - B.

Section - A

Q1)   *(15 x 2 = 30)*

a) What is software engineering?

b) Is it possible to estimate software size before coding?

c) How is function point metric advantageous over LOC metric?

d) What is risk? .

e) What problems are likely to arise if a module has low cohesion?

f) What document should be produced on completion of the design phase?

g) Explain the usefulness of decision table during testing.

h) What is the difference between white and black box testing?

i) Differentiate integration testing and system testing.

j) Is unit testing possible in all circumstances?

k) What is the importance of slack time?

1) What is the advantage of system diagram?

m) Describe task maintenance model.

n) Discuss various aspects of ripple effect and how it affects the stability of program.

o) What is software?

P.T.O.

Section - B

(9 x 5 = 45)

Q2) What are the characteristics to be considered for the selection of life cycle model?

Q3) List the advantages and disadvantages of involving s/w engineer throughout the s/w development planning process.

Q4) Explain the Putnam resource allocation model. What are the limitations of this model?

Q5) Discuss the objectives of software design. How do we transfer an informal design to detailed design?

Q6) Explain module coupling and its different types.

Q7) Discuss the limitations of testing. Why do we say that complete testing is impossible?

Q8) Discuss the various steps of data flow testing.

Q9) List some of the problems that could result from adding debugging statements to code. Discuss the possible solution of these problems.

Q10) What are the linkages between data flow and E-R diagrams?

Q11) What is software requirement specification? List out various software requirement specification standards.

Q12) Explain the steps of software maintenance with the help of diagram.

Q13) List out system documentation and also explain their purpose.

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