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J-3599[S-1455] [2037]

M.Sc. (BI) (Semester - 3rd)

SOFTWARE ENGINEERING (M.Sc. (BI) - 303)

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 do you mean by the term software?

b) What is a product metric?

c) In what terms effort is measured?

d) What is software crisis? Was Y2K a software crisis?

e) What do you mean by productivity?

f) What is difference between a module and software component?

g) What do you mean by SRS?

h) What is RAD?

i) What is the significance of an ER diagram?

j) What is the significance of level-O DFD?

k) What is importance of requirements?

1) What are use cases?

m) Write any two software size estimation techniques.

n) On which approach COCOMO - II estimation model is based?

o) What do you mean by modularity?

P.T.O.

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Section - B

(9 x 5 = 45)

Q2) What is software engineering? Is it an art, craft or a science? Discuss.

Q3) What is software metric? How is it different from software measurement?

Q4) What is more important : Product or process? Justify your answer.

Q5) What is software life cycle? Discuss the generic waterfall model.

Q6) What are the advantages of developing the prototype of a system?

Q7) Draw the ER diagram for a hotel reception desk management.

Q8) State the model of a data dictionary and its contents. What are its advantages?

Q9) What are size metrics? How is function point metric advantageous over LOC metric? Explain.

Q10) Discuss typical software risks. How staff turnover problem affects software projects?

Q11) Define module cohesion and explain various types of cohesion.

Q12) What are various categories of software metrics? Discuss with the help of suitable examples.

Q13) What is software testing? Discuss the role of software testing during software life cycle and why is it so difficult?

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