44 (3) BCA–HC–3016/3·1

2023

SOFTWARE ENGINEERING

Paper : BCA–HC–3016/3·1

Full Marks : 80

Time : Three hours

The figures in the margin indicate full marks for the questions.

1.   2×5=10

(a) Define Software Engineering.

(b) What do you mean by Lines of code ?

(c) Write the full form of SRS and COCOMO.

(d) Define Reverse Engineering.

(e) Define ER diagram.

2. Answer *any ten* questions from the following :   5×10=50

   (a) What are the characteristics of the software ?

   (b) Briefly explain the waterfall model.

   (c) Write the advantages and disadvantages of spiral model.

   (d) What do mean by unit testing and integration testing ?

   (e) Distinguish between Function Oriented Design and Object Oriented Design.

   (f) Briefly explain the prototype model.

   (g) Briefly explain the characteristics of SRS.

   (h) Explain the Software quality Assurance.

   (i) Write some software testing tools.

   (j) Write the advantages and disadvantages of Evolutionary model.

   (k) Briefly explain the different types of feasibility study.

3. Answer **any two** questions : 10×2=20

(a) Explain the COCOMO model with example.

(b) Explain the different types of cohesion.

(c) Explain the different types of coupling.

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