Krishna Kanta Handiqui State Open University
MCA 5th Sem. Examination, 2015

Software Engineering [MCA(S5)17]

Time : 3 Hrs. Full Marks : 80

1. Answer any five from the following questions : 2×5 = 10
   (a) What does Level O DFD represent? What are the symbols for representaing process, Data Stores and External Entity in a DFD?
   (b) What is software crisis?
   (c) What is the prime objective of spiral model?
   (d) Define CASE tools.
   (e) On what factors does preliminary investigation depends?
   (f) What is LOC?

2. Answer any three from the following questions : 4×3 = 12
   (a) Give the IEEE definition of verification and validation in the context of software engineering.
   (b) What are the main advantages of using an object-oriented approach to software design over a function oriented approach?
   (c) What are structure charts? What are the steps for creating a structure chart?
   (d) What is ER diagram? Discuss its wage in data modeling.

3. Answer any three from the following questions : 6×3 = 18
   (a) When do we perform the unit level testing? Briefly discuss alpha and beta testing with this advantages.
   (b) What are the different categories of software development projects according to the COCOMO estimation model? Give examples of software projects beloging to each of these categories.
   (c) What is the benifit of modular design? What do you mean by the terms cohesion and coupling in the context of software design?

   (d) What do you understand by information hiding in the context of software design? What are the advantages associated with information hiding?

4. Answer any four from the following questions : 10×4 = 40
   (a) What is a phototype? Briefly discuss the prototyping model with a suitable diagram. What are teh major advantages of first counstructing a working prototype before developing the actual product?
   (b) What are the activities associated with project scheduling? Briefly discuss one technique of project scheduling.
   (c) What are the main activities carried out during requirement analysis and specification phase? What is the structure of a SRS? What is the actual outcome of requrement analysis and specification phase?
   (d) Why software maintenance is necessary? Name some types of software maintinance and discuss any two of them.
   (e) What are software risks? How are they identified and prioritized? How are they controlled?

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