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B.E. DEGREE EXAMINATIONS: APRIL/MAY 2012

Sixth Semester

COMPUTER SCIENCE & ENGINEERING

CSE136: Software Project Management

Time: Three Hours

Maximum Marks: 100

Answer All Questions:-

PART A (10 x 1 = 10 Marks)

1. Software deteriorates rather than wears out because
 - a) Multiple change requests introduce errors in component interactions
 - b) Software suffers from exposure to hostile environments
 - c) Defects are more likely to arise after software has been used often
 - d) Software spare parts become harder to order
2. Most software continues to be custom built because
 - a) Component reuse is common in the software world.
 - b) Off-the-shelf software components are unavailable in many application domains
 - c) Reusable components are too expensive to use.
 - d) Software is easier to build without using someone else's components.
3. Using the following table for function point weightings:

<i>Factors</i>	<i>Weights</i>		
	<i>Simple</i>	<i>Average</i>	<i>Complex</i>
Number of user inputs	3	4	6
Number of user outputs	4	5	7
Number of user inquiries	3	4	6
Number of files	7	10	15
Number of external interfaces	5	7	10

A system being developed has the following characteristics:

- Number of user inputs 10 (simple)
- Number of user outputs 7 (simple)
- Number of user inquiries 3 (average)
- Number of files 6 (average)
- Number of external interfaces 1 (complex)

The function point count for the system is:

- a.27 b.140 c.58 d.31

13. What is the major disadvantage of spiral model of software development?
14. What is planning?
15. What is a risk?
16. List down the objectives of activity planning.
17. What do you mean by controlling the change?
18. What is earned value analysis?
19. What are standards?
20. What are the advantages of group decision making?

PART C (5 x14 = 70 Marks)

21. a) Explain the stepwise project planning in detail

(OR)

b) Compare the software projects with other types of projects. What are the ways in which software projects are classified?

22. a) Compare traditional water fall model with incremental model of software development.

Give the illustrative example highlighting the suitability of these models in software development.

(OR)

b) Explain the various software effort estimation techniques

23. a) What are the categories of resources? Explain resource scheduling in detail.

(OR)

b) What is a critical path? How is critical path created while scheduling resources?

24. a) Illustrate a model of the project control cycle with block diagram.

(OR)

b) Write short notes on i) The supply process ii) Types of contract

25. a) Describe the impact of organizational structure on the project.

(OR)

b) Explain quality management with respect to product and process.
