

Register Number.....

B.E. DEGREE EXAMINATIONS: APRIL/MAY 2012

Eighth Semester

COMPUTER SCIENCE AND ENGINEERING

U07CSE18: Software Quality Management

Time: Three Hours

Maximum Marks: 100

Answer All Questions:-

PART A (10 x 1 = 10 Marks)

1. _____ is the protection of the program from unauthorized access.
a)Modularity b)Integrity c) usability d)reliability
2. The relationship between correctness and efficiency.
a)direct b)indirect c)inverse d)neutral
3. Peer review is a key process area of _____
a) CMM 1 b) CMM 4 c) CMM 3 d) CMM5
4. Abbreviate SDD.
a) software design description b)software document design
c)software design description d)software design document
5. _____ diagram is also known as a fishbone diagram.
a) run char diagram b)histogram c)cause & effect diagram d)paretto diagram
6. Which formula is used in J-M model.
a) $z(t_i) = [N-(i-1)]$ b) $z(t_i) = [N-(i-1)]$ c) $z(t_i) = [N-P(i-1)]$ d) $z(t_i) = [N-P(i-1)]$
7. Rayleigh model is a special case of weibull distribution where $m =$ _____
a)5 b)4 c)3 d)2
8. Cyclometric complexity was designed by _____
a)Halsted (1997) b) Mc-Cabe (1976) c) Mc-Clure (1978) d) Mc-Call(1979)
9. Internal monitoring only is the _____ accreditation type.
a) First party b) second party c) third party d) second & third party
10. The draft version of CMM (ver 0.2) is released at
a)1987 b)1989 c)1990 d)1991

PART B (10 x 2 = 20 Marks)

11. Define quality according to *ISO*.

12. Name the areas addressed by Mc-Call model?
13. List the criteria that makes a good metrics.
14. What is SRS?
15. Define Littlewood model.
16. Compare the scenarios of inspection effort & defect rate?
17. Write down the advantages and disadvantages of survey methods?
18. List out the reliability growth models?
19. What is the need of standards?
20. Define third party accreditation with example.

PART C (5 x 14 = 70 Marks)

21. a) Discuss in detail the work of GILB?

(OR)

- b) Explain the following.

- (i) GE model. (7)
- (ii) Boehm model (7)

22. a) What is SQAP? Explain the 4 divisions of SQAP? And define the 15 sections of SQAP given by IEEE?

(OR)

- b) Define is SQA characteristics? Discuss the types of SQA characteristics?

23. a) Discuss in details about CASE tools.

(OR)

- b) Write notes on reliability growth models for quality assessments?

24. a) Explain in detail the elements of QMS?

(OR)

- b) Illustrate the complexity metrics and its models?

25. a) A company m/s ABC corporation is certified for ISO 9000.2 it wants to apply the ISO 9000.1. Enumerate the steps to be taken?

(OR)

- b) Compare ISO 9000 model & CMM.
