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Question Paper Code: S54205

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Fourth Semester

Computer Science and Engineering

15UCS405- SOFTWARE ENGINEERING

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5x 1 = 5 Marks)

1. What are attributes of good software? CO1- R
(a) Software maintainability (b) Software functionality
(c) Software development (d) Increment Process model
2. How many Scenarios are there in elicitation activities? CO2- R
(a) one (b) two (c) three (d) four
3. The importance of software design can be summarized in a single word CO3- R
(a) Accuracy (b) Complexity (c) Efficiency (d) Quality
4. Behavioral testing is CO4- R
(a) White box testing (b) Black box testing
(c) Grey box testing (d) Red box Testing
5. Which of the following are advantages of using lines of code (LOC) as a size-oriented metric? CO5- R
(a) LOC is a language independent measure
(b) LOC is a language dependent measure
(c) LOC is easily computed
(d) LOC can be computed before a design is completed

PART – B (5 x 3= 15Marks)

6. Write short note on the model that used to develop the word-processing software. CO1- R
7. Identify ambiguities or omissions in the functional requirements. What questions would you ask to clarify these functional requirements? CO2- Ana
8. What is meant by regression testing? CO3- R
9. Compare alpha testing and beta testing. CO4- R
10. What is software evolution? CO-5 App

PART – C (5 x 16= 80Marks)

11. (a) A university intends to develop an integrated student management system holding all details of registered students including personal information, courses taken, examination marks achieved and student graduation record. Develop the suitable software process model and justify for choosing that model. CO1- U (16)
Or
(b) Describe the staged CMMI model. State its advantages and disadvantages. CO1- U (16)
12. (a) Describe the functional and behavioral models for software requirement process. CO2- U (16)
Or
(b) Explore a software requirement specification (SRS) Document for Hotel Management system. CO2- U (16)
13. (a) What are the different architectural styles for software design and explain each style in detail CO3- App (16)
Or
(b) Draw the level 0 and level 1 DFD for ATM system when a customer withdraws cash from the machine and explain. CO3- App (16)
14. (a) Discuss the types of system testing that are worthwhile for software-based systems. CO4- U (16)
Or
(b) Explain about White box testing CO4- U (16)

15. (a) Apply COCOMO II method to compute all the estimates required for an embedded project of size 38,900 LOC. Use the following cost drivers: High use of software tools, very good programmer and low complexity. CO5- App (16)

Or

- (b) Discuss in detail the empirical estimation models. CO5- U (16)

