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B.E. / B.TECH. DEGREE EXAMINATIONS, DEC 2019

Fourth Semester

CS16405 – SOFTWARE ENGINEERING*(Computer Science and Engineering)***(Regulation 2016)****Time: Three Hours****Maximum : 100 Marks**Answer **ALL** questions**PART A - (10 X 2 = 20 Marks)**

	CO	RBT
1. What are the two types of software products?	1	R
2. What are the advantages of prototyping model?	1	R
3. Define the term requirement engineering	2	R
4. Give the importance of domain requirement.	2	AP
5. Why software design is so important?	3	AP
6. Explain the term refinement in design process	3	AN
7. Compare Alpha and Beta testing.	4	U
8. Why good test is not redundant?	4	AN
9. Define the term reliability.	5	R
10. What are the advantages of software re-engineering.	5	R

PART B - (5 X16 = 80 Marks)

11. (a) Compare waterfall process model and RAD model in software development. (16) 1 AN
- (OR)**
- (b) Explain software estimation and scheduling concepts in detail. (16) 1 AN
12. (a) Describe the process of requirement engineering. (16) 2 R
- (OR)**
- (b) Explain product documentation in details. (16) 2 R
13. (a) Write short notes on architecture design and its styles. (16) 3 R

(OR)

- (b) Explain data design and component design with illustrative examples. (16) 3 AP

14. (a) Explain the types of software testing. (16) 4 R

(OR)

- (b) Given a set of numbers 'n', the function Find_Prime (a[],n) prints a number- if it is a prime number. Draw a control flow graph, calculate the cyclomatic complexity and enumerate all paths. State how many test case-s are- needed to adequately cover the code in terms of branches, decisions and statement? Develop the necessary test cases using sample values for 'a' and 'n'. (16) 4 AN

15. (a) Explain reverse engineering and re- engineering. (16) 5 R

(OR)

- (b) Explain software quality assurance. (16) 5 R