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Question Paper Code: 33206

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Third Semester

Computer Science and Engineering

01UCS306 - SOFTWARE ENGINEERING

(Regulation 2013)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. What is back EMF in a D.C. motor?
2. Why is starter needed to start the DC motor?
3. What happens if DC supply is applied to the transformer?
4. Why is transformer rated in KVA?
5. Write down the condition for maximum starting torque of three phase induction motor.
6. Why an induction motor is called rotating transformer?
7. What is boundary value analysis?
8. What are the two levels of testing?
9. What is a universal motor?
10. What are the applications of stepper motors?
11. Specify any four software design quality attributes?
12. What are the common approaches in debugging?
13. How to compute the cyclomatic complexity?

14 What is RMMM?

15. What is meant by software project scheduling?

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Discuss system engineering hierarchy and briefly explain each level in the hierarchy. (10)
17. What is Requirement Engineering? State its process and explain requirement elicitation problem. (10)
18. Enumerate data design concepts and principles in detail. (10)
19. Explain about basis path testing and loop testing with suitable example. (10)
20. What is COCOMO –II model? Explain in detail. (10)