Reg No
Name:

B.VOC DEGREE EXAMINATION,OCTOBER 2016 FIRST SEMESTER - CORECOURSE(SOFTWARE DEVELOPMENT) VSD1S02TB-PROBLEM SOLVING TECHNIQUES

Time:Three Hours Maximum:80 Marks

PART A (Short Answer Questions)

1. Answer all questions (Each question carries 1 mark)

- 1. What do you meant by translators?
- 2. What is meant by flow chart?
- 3. What is time complexity?
- 4. Write down the names of different types of programming languages?
- 5. Write the syntax of an array?
- 6. What is sorting?
- 7. Define Array.
- 8. What is merging?
- 9. What is an algorithm?
- 10. Explain problem definition phase.

(10*1=10)

PART B (Brief Answer question)

- 11 .Answer any Seven questions in one or two sentence (Each question carries 2 marks)
- 11. Write the differences between compiler and interpreter.
- 12. Define an algorithm.
- 13. Explain the logic of Fibonacci series up to n terms.
- 14.Draw the different flow charting symbols and write the function of each symbol.
- 15. What do you meant by worst case?

- 16 What you meant by referencing array element?
- 17. What is the logic of insertion sort?
- 18.Define merging.
- 19 Write down the names different types of sorting methods
- 20. What is hash key?
- 21. Write an algorithm for exchanging the values.
- 22. Write an algorithm for finding smallest divisor of an integer.

(8*2=16)

PARTC (Descriptive/Short Answer Questions)

111 .Answer any Six questions in 50 words (Each question carries 6 marks)

- 23 Discuss the fundamental technique for exchange of two numbers
- 24 Explain factoring method.
- 25.Draw a flow chart to check the given no is prime or not.
- 26 Draw a flow chart to check the given string is palindrome or not
- 27 Define hashing. Explain different methods?
- 28. Write an algorithm to find the factorial of a given number. Illustrate with an example.
- 29. Write an algorithm to implement selection sort.
- 30 Write an algorithm to find the greatest element in an array.
- 31 What is searching? Explain.

(6*4=24)

PART-D (long Essay)

1V .Answer any2 questions in 100 words (Each question carries 15 marks)

- 31 Explain Sine computation.
- 32 Explain raising a number to a larger power with a suitable algorithm.
- 33. Write an algorithm for finding the kth smallest element in an array.
- 34. Explain any one sorting technique in detail with example. (2*15=30)