SPA FE Sem (II) Rev (CBGS) With Spa March 2014

(REVISED COURSE) QP Code: NP-17782

Total Marks: 80 (3 Hours) N. B.: (1) Question No. 1 is compulsory. (2) Attempt any three questions from remaining five questions. Figures to right indicate full marks. Assume suitable data if necessary, but justify the same (A) What do you mean by algorithm? Which points you should consider while developing the algorithm. (B) Determine the type of triangle, given its sides. (i.e. isosceles, scalene, equilatoral). Is the above problem definition is complete? if not, make this problem definition complete. (C) State any 2 library function in string.h along with its uses. (D) What do you mean by auto and extern storage class. Explain with example. 1. (E) Explain switch control statement with the help of example. (A) Write a program in C to delete all the occurrences of given number from an ARRAY. 10 For example, suppose ARRAY $A = \{2,5,3,9,2,2,3\}$ and given no is 2 then after deletion ARRAY should have $A = \{5,3,9,3\}$ (B) Write a program to check whether the given number is palindrome or not. i.e if no is 10 12421 it is palindrome (A) What do you mean by Recursion? write a program which will accept two numbers, 10 n and r and calculate value of nC = n! / r! (n-r)! . Program should make use of 10 recursion. (B) Write a program to sort given nos in Ascending order. (A) A Hospital needs to maintain details of patients. Details to be maintained are, First name, Middle name, Surrame, Date of Birth, Disease. Write a C program which will print the list of all patients with given disease. 10 (B) write a program which will accept a 2 dimensional square matrix and find out transpose of it. Program should not make use of another matrix. 10 (A) Write a program to generate following patterns. 78010 (ii)

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