GOA VIDYAPRASARAK MANDAL'S

GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE & ECONOMICS.PONDA-GOA B.C.A. CBCS (SEMESTER-I) REPEAT EXAMINATION, OCTOBER/NOVEMBER 2024.

PROBLEM SOLVING AND PROGRAMMING CONCEPTS

Duration: 2 Hrs

Marks: 60

Instructions: 1.All Questions are compulsory 2.Figures to the right indicate marks	
Q.1.A.State whether the following statements are true or false a. scanf() function is used to read data from keyboard. b. C is a case sensitive language. c. Every program statement in C must end with a semicolon. d. An Exit controlled loop is executed at least once. e. Pointer variable holds address of a variable of a similar data type.	(5*1=5)
Q.1.B. Find errors if any,in the following C statements. a. int a[5]=1,2,4; b. a=b-c*2; c. if(x>=10) then printf("\n"); d. sum+=10; e. int *p=5;	(5*1=5)
Q.2.a.Who designed C Language? Q.2.b.Write an algorithm and draw a flowchart to find sum of 2 numbers. Q.2.c.Explain the process of executing a C program.	(2) (3) (5)
Q.3.a.What is a Symbolic Constant?.Q.3.b.Differentiate between an Interpreter and a compiler.Q.3.c.Write a C program to find largest element from an array.	(2) (3) (5)
Q.4.a.What are the rules for naming a variable?. Q.4.b.what is a C function?.Explain with an example. Q.4.C.write a C program to find factorial of a number.	(2) (3) (5)
Q.5.a.what is an application software?.Q.5.b.State and explain any 3 inbuilt library functions.Q.5.c. write a C program to swap contents of 2 variables using functions.	(2) (3) (5)
Q.6.a.what is a C pointer? Q.6.b.Do- while is called an exit controlled loop. Explain. Q.6.c.Write a C program to implement Switch statement.	(2) (3) (5)