Scheme – I

Sample Question Paper

Program Name : Diploma in Electronics Engineering Program Group

Program Code : EJ/DE/ET/EN/EX

Semester : Second

Course Title : 'C' Programming Language

Max. Marks : 70 Time: 3 Hrs.

Instructions:

(1) All questions are compulsory.

- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order

Q.1) Attempt any FIVE of the following.

10 Marks

22218

- A) Define the term (i) identifier (ii) token.
- B) State the use of break and continue statement.
- C) State two differences between while loop and do while loop.
- D) State the advantage of function.
- E) Define pointers in C.
- F) State any four features of pointer.
- G) Define structure.

Q.2) Attempt any THREE of the following.

12 Marks

- A) Distinguish between variable and constant.
- B) Describe use of for loop with syntax and flowchart.
- C) Define array. How array is declared write its syntax?
- D) Explain recursion with example.

Q.3) Attempt any THREE of the following.

12 Marks

- A) Enlist any four types of arithmetic operators used in C and give one example of each.
- B) Explain declaration and initialization of one-dimensional array with example.
- C) Explain meaning of following statement with reference to pointers. int * a, b;
- b = 20;
- *a = b:
- a = &b;
- D) Explain how structure can be initialized with suitable example.

Q.4) Attempt any THREE of the following.

12 Marks

- A) Write a program in 'C' to display hexadecimal, decimal, octal format of the entered number.
- B) Write a C program to convert a temperature of 60^{0} C to the Fahrenheit scale using the relationship $F = (9/5)^{*}$ C +32
- C) Explain any four string handling functions from standard library function..
- D) Write a 'c' program to add two numbers using pointers

Q.5) Attempt any TWO of the following.

12 Marks

- A) Explain how 'switch' statement is used in the programs instead of 'if-else' statements with a suitable example program.
- B) Write a C program to count the number of characters and print the vowels present in entered text.
- C) Write a C program to swap contents of two variables using call by reference.

Q.6) Attempt any TWO of the following.

12 Marks

- A) Write a C program to search a particular roll no. in an array. If that roll no. exist in an array print "number is present" else print "number is absent".
- B) Write a C program to find factorial of given number using recursion function.
- C) Write a program to declare structure book having data member as book_name, book_id, book_price. Accept this data for 3 books and display it.

Scheme – I

Sample Test Paper - I

Program Name : Diploma in Electronics Engineering Program Group

Program Code : EJ/DE/ET/EN/EX

Semester : Second

Course Title : 'C' Programming Language

Max. Marks : 20 Time: 1 Hour

Instructions: All questions are compulsory

- 1. Illustrate your answers with neat sketches wherever necessary
- 2. Figures to the right indicate full marks
- 3. Assume suitable data if necessary
- 4. Preferably, write the answers in sequential order

Q1. Attempt any Four

(2*4=08)

22218

- 1. Define token and identifier.
- 2. Explain use of for loop with syntax and flow chart.
- 3. List any two library functions with syntax.
- 4. Write the syntax of else if-ladder.
- 5. Write syntax of switch case.
- 6. Write a program to find the sum of digit of an integer

$$(Sum = 1 + 4 + 5 + 3 + 2 = 15)$$

Q2. Attempt any Three

(3*4=12)

- 1. Write a program to demonstrate the use of printf and scanf statement to read and print values of variables of different data types.
- 2. Write a program to determine whether a person is eligible to vote.
- 3. Write a program that displays the size of every data type.
- 4. Write use of comma operator in 'for 'loop.
- 5. Identify situation will you prefer to use while, do-while loop.
- 6. Write algorithm and draw flowchart to print prime numbers between 1 to 100.
- 7. Write a program to print following pattern.

1 1 1 2 2

3

Scheme - I

Sample Test Paper - II

Program Name : Diploma in Electronics Engineering Program Group

Program Code : EJ/DE/ET/EN/EX

Semester : Second

Course Title : 'C' Programming Language

Max. Marks : 20 Time: 1 Hour

Instructions: All questions are compulsory

1. Illustrate your answers with neat sketches wherever necessary

- 2. Figures to the right indicate full marks
- 3. Assume suitable data if necessary
- 4. Preferably, write the answers in sequential order

Q1. Attempt any Four

(2*4=08)

22218

- 1. Clarify the situation: when a function returns a value that does not match with the return type of function?
- 2. State any four advantages of function.
- 3. State the difference between one dimensional and two dimensional arrays.
- 4. Write advantages of pointer.
- 5. Write the syntax for structure.
- 6. Give an example of enumerated data type with syntax.

Q2. Attempt any Three

(3*4=12)

- 1. Write types of parameter passing methods in function and give one example of each.
- 2. Write a program to convert the given string "Hello" to "olleH" using recursion
- 3. Write a program to read, display the information about employees using structure.
- 4. Differentiate between * (arr+i) and (arr+i).
- 5. Write C Program for following string function.
 - strrev()
 - strlen()