Instructions:

Enrollment No:_____

PARUL UNIVERSITY FACULTY OF IT & COMPUTER SCIENCE BCA/IMCA Winter 2018–19 Examination

Semester: 02 Subject Code: 05101151 Subject Name: Advanced C Programming

Date: 10/12/2018 Time: 10:30 am to 1:00 pm Total Marks: 60

| 2. Fig | l questions are compulsory. gures to the right indicate full marks. ake suitable assumptions wherever necessary. | | |
|------------|--|---|-------------|
| | art new question on new page. | | |
| Q.1 (a) | Answer the following. 1. Define pointer 2. What is the ASCII value of carriage 3. A structure can be nested inside and | | [15] [5] |
| | 4. What will be the size of following u Union Test { int x; char y; float z; }; | | |
| (b) | members of the structure through the pointer | | [10] |
| | (a). (b) & 2 Pointer as a function parameter is used to | (c) * (d) -> hold addresses of arguments passed during | |
| | (a) function call. | (b) function declare. | |
| | (c) function define. | (d) None of them | |
| | 3. File manipulation function in C are available in which header file? | | |
| | (a) streams.h | (b) stdio.h | |
| | (c) stdlib.h | (d) files.h | |
| | 4. State whether the following are true or false: "If return type for a function is not specified, it defaults to int." (a)True (b) False | | |
| | 5. String is always declared as an(a) array of variable | (b) array of number | |
| | (c) array of characters. | (d) array of pointer. | |
| | 6. FILE is defined in which header file ? | | |
| | (a) streams.h | (b) stdio.h | |
| | (c) stdlib.h | (d) files.h | |
| | 7. What the following function call mean? strcpy(s1,s2); | | |
| | a) copies s1 string into s2 | b) copies s2 string into s1 | |
| | c) copies both s1 and s2 | d) None of these | |
| | | | |

8. What is the right way to access value of structure variable author {name, publication}?

a) printf("%d %d",author.name, author.publication);

b) printf("%d %d",name.author, publication.name);

| | c) printf("%d %d",author::name, author::publication);d) printf("%d %d",author-name, author-publication); | | | | |
|------------|---|-------------|--|--|--|
| | 9. The arguments that are passed in a function call are called | | | | |
| | a) formal arguments. (b) actual arguments. | | | | |
| | (c) both (a) and (b) (d) non of above | | | | |
| | 10. putw function is used to into a file. | | | | |
| | a) write a character (b) read an integer. | | | | |
| | (c) read a character (d) write an integer | | | | |
| | | | | | |
| Q.2 | 2 Answer the following. (Attempt any FIVE). | | | | |
| | 1. Define. String, call by reference, recursion. | | | | |
| | 2. Explain Types of Function in detail. | | | | |
| | 3. How to Read a strings from terminal with scanf function? What is the Limitations of scanf() | | | | |
| | function and what is the solution? | | | | |
| | 4. Explain declaring & initializing of pointers. | | | | |
| | 5. Distinguish between Array and structure. | | | | |
| | 6. Define. : Scope, visibility & lifetime of variables. | | | | |
| Q.3 | Attempt any THREE. | [15] | | | |
| C | 1. List out Element of user-defined functions and Explain each elements in brief. | | | | |
| | 2. How to detect end of file in C. Explain in detail. | | | | |
| | 3. Explain pointer and array in brief with suitable example. | | | | |
| | 4. Explain file operations with suitable example. | | | | |
| Q.4 | | | | | |
| (a) | Explain structure within structure with suitable example. | | | | |
| (b) | Explain fseek function in brief brief with suitable example. | [5] [10] | | | |
| | OR | | | | |
| (b) | Explain below file handling function in brief with suitable example. | | | | |
| | i. fprintf() | | | | |
| | ii. fscanf() | | | | |
| | iii. getw() | | | | |

- iii. getw() iv. putw()
- v. putc()