

7. (a) What is file ?
- (b) What are the basic file operations in C language explain briefly.
- (c) Explain the following functions :  
fputc, fgetc, fputs, fseek
- (d) Write a program in C to copy the contents of one file to another file.
- (e) What is file pointer ? 1+2+4+6+2

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C/18/BCA/1st Sem./1102

**New  
2017**

**BCA 1st Semester Examination  
PROGRAMMING IN 'C'**

PAPER—1102

Full Marks : 70

Time : 3 Hours

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

*Answer Q. No. 1 and any four from the rest.*

1. Attempt any five questions : 5×2
- (a) What are the roles of preprocessor in a C programming ?
- (b) Write a C program to interchange 2 variables without using the third variable.
- (c) What is an argument ? Explain different types of argument.



- (d) What is enumeration? Explain with proper example.
- (e) Are the expressions \*ptr++ and ++\*ptr same?
- (f) Define what is header file?
- (g) What is dynamic memory allocation?

2. (a) Define what is datatype? What are primitive datatype in C language?

(b) What is the purpose of main function?

(c) What is use of if else Statement? Explain flowchart.

```

(d) int i = 0;
    while (i++ < 0)
        i--;

```

Explain the output for above piece of code.

(e) What is the use of return Statement?

(f) How command line arguments are passed through a C program.  
(2+1)+2+3+2+2+3

3. (a) What's the difference between constant and variables in C programming?

(b) What is ternary operator in C language? Explain with an example.

(c) Differentiate between local variable and global variable.

(d) Explain continue and break statements with an example.

(e) Distinguish between structure and union in C language.

(f) What is array? Why is it necessary to give the size of an array in an array declaration?  $2+3+2+3+2+3$

4. What will be the output?

```

(i) main ( )
{
    int c[] = {2, 8, 3, 4, 4, 6, 7, 5};
    int j, *p = c, *q = c;
    for (j = 0; j < 5; j++)
    {
        printf ("%d", *c);
        ++q;
    }
}

```



```

for (j = 0; j < 5; j++)
{
    printf ("%d", *p);
    ++p;
}
}

```

(ii) #define SQR(x) (x \* x)

```
int main ( )
```

```
{
```

```
int a, b = 3;
```

```
a = SQR (b + 2);
```

```
printf ("%d \n", a);
```

```
return 0;
```

```
}
```

(iii) void main ( )

```
{
```

```
printf("\n %d %d %d", size of ('3'),
```

```
size of ("3")
```

```
size of (3));
```

```
}
```

5x3

5. (a) What do you mean by type casting ?

(b) What is the difference between an object file and executable file in C programming ?

(c) What is pointer ?

(d) Explain call by value and call by reference with suitable example.

(e) Explain the following string functions :

Strcat, Strcmp, strlen.

2+3+2+5+3

6. (a) Differentiate pointer to an array and array of pointers.

(b) Display the largest element of an array.

(c) How to declare a pointer to a pointer (double pointer) in C language ?

(d) Write any programme using dynamic memory allocation and release memory. 3+6+2+4