

- (ii) Exchange the addresses of each elements in the two rows
 - (iii) Store the addresses of the rows in the array of pointers and exchange the pointer
 - (iv) None of these
- (c) A typecast is used to :
- (i) Define a new data type
 - (ii) Force a value to be of a particular variable type
 - (iii) Rename and old type
 - (iv) None of these
- (d) What will be the output of the following C program ?

```
# include < stdio.h >
# define f(x, y) x * y - y * y + 1
# define g(x, y) f(1, 1), f(1, -1)
main()
{
int dif ;
dif = f(1, - 1) + g(1, - 1) ;
printf("/n the difference is = % d", dif);
}
```

- (i) The difference is = 12

- (ii) The difference is = 1
 - (iii) The difference is = - 1
 - (iv) None of these
- (e) Operator precedence determines which operator ?
- (i) Operates on the largest numbers
 - (ii) Is used first
 - (iii) Is most important
 - (iv) None of these
- (f) If you don't initialize a static array, what will be the elements set to ?
- (i) Zero
 - (ii) An undetermined value
 - (iii) A floating point number
 - (iv) None of these
- (g) What will be the output of the following C program ?

```
#include <stdio.h >
main()
{
int * i, *j, a = 1, b = 2, c ;
```

```
c = (a = a + b, b = a / b, a = a * b, b = a - b);  
i = &c ;  
printf("%d", -(*i)) ;  
}
```

- (i) 93
- (ii) 92
- (iii) 91
- (iv) 90

(h) Which is more appropriate for reading in a multi word string ?

- (i) Gets()
- (ii) Printf()
- (iii) Scanf()
- (iv) Puts()

(i) Function argument can be :

- (i) A structure member
- (ii) A pointer variable
- (iii) A complete structure
- (iv) All of the above

(j) The ternary operator (? :) and size of operator have :

- (i) Same associativity

- (ii) Different associativity
- (iii) No associativity
- (iv) None of these

Group – B

Answer any **four** questions.

- 2. What do you mean by C Token ? Explain each in details using a sampling of CPL. 15
- 3. What is flow chart ? Define the symbols used in flow charts. Also discuss the advantages and disadvantages of flow chart. 15
- 4. Write a program in C to accept any year as input through keyboard and check whether the given year is a leap year or not. 15
- 5. Distinguish between the followings : 15
 - (a) Array Variable and Pointer Variable
 - (b) Structure and Union
- 6. Write a program in C to transpose of $r \times c$ matrix. 15
- 7. What are pre-processors in C ? Explain each of them with suitable examples. 15

