

[4]

4. Describe Assignment operators in detail.

Or

Explain Unary and Binary operators in detail.

5. WAP to print an array in reverse order.

Or

Describe Encryption and decryption in detail.

★ ★ ★ ★ ★ c ★ ★ ★ ★ ★

G-3/334/21

Roll No.....

M.Sc. III Semester Examination, April-2021

MATHEMATICS

Paper V

(Programming in C-I (with ANSI Features))

Time : 3 Hours]

[Maximum Marks : 56

Note : All questions are compulsory. Question Paper comprises of 3 sections. **Section A** is objective type/Multiple Choice questions with no internal choice. **Section B** is short answer type with internal choice. **Section C** is long answer type with internal choice.

SECTION 'A'

(Objective Type Questions)

Choose the correct answer :

1 × 6 = 6

1. For 16-bit machine : long double having bits size :

- (a) 32 (b) 80
(c) 64 (d) 16

2. Any program after main() having the following symbol :

- (a) { (b) ()
(c) [(d) none of these

3. Any syntax end with the symbol :

- (a) : (b) ==
(c) ; (d) ++

4. Any comment line having the symbol :

- (a) /* */ (b) /*
(c) / / (d) /= =

[2]

5. By default %f having number of digits after decimal :

- (a) 3 (b) 6
(c) 4 (d) 10

6. If $y = 98.7654$, then the output of `printf ("%7.2f", y)` will be :

- (a)

9	8					
---	---	--	--	--	--	--

(b)

9	8	.	7	6	5	4
---	---	---	---	---	---	---

(c)

9	8	.	7	6		
---	---	---	---	---	--	--

(d)

		9	8	.	7	7
--	--	---	---	---	---	---

SECTION 'B'

3 × 5 = 15

(Short Answer Type Questions)

Note : Answer the following questions in 250 words.

1. WAP for area of a circle, having radius 6.2.

Or

WAP to convert 265 days, into months and days.

2. If $a = 15$, $b = 10$, then the value of $c = ++a - b$; W.A.P. for finding this value.

Or

WAP for using the function is lower (alphabet).

3. Write short note about Nested loops.

Or

WAP for goto statement.

4. WAP using increment operator.

G-3/334/21

[3]

Or

Explain Bit wise operators.

5. Represent the following numbers in the form of two-dimensional array in memory :

310	275	365
10	190	325
405	235	240
310	275	365

Or

WAP to find the mean of the following numbers :

235 675 231 749 125

SECTION 'C'

7 × 5 = 35

(Long Answer Type Questions)

Note : Answer the following questions in 500 words.

1. Explain in detail programming language and its classification.

Or

Describe variables and constants in detail.

2. Explain void data type in detail.

Or

Write the procedure for finding the address of an object.

3. WAP for finding the roots of the following :

$$3x^2 - 17x + 10 = 0.$$

Or

WAP to find the factorial of a number.

G-3/334/21

P.T.O.