No.	:	
	No.	No. :

Total No. of Questions: 11 ]

[ Total No. of Printed Pages : 3

## APF-2175

# M.A./M.Sc. (Final) Examination, 2022 MATHEMATICS

Paper - Opt.-VIII

### (Computer Applications)

Time: 3 Hours [ Maximum Marks: 70

Section-A (Marks :  $1 \times 10 = 10$ )

Note: Answer all ten questions (Answer limit 50 words). Each question carries 1 mark.

Section–B (Marks :  $3 \times 5 = 15$ )

Note: Answer all five questions. Each question has internal choice (Answer limit50 words). Each question carries 3 marks.

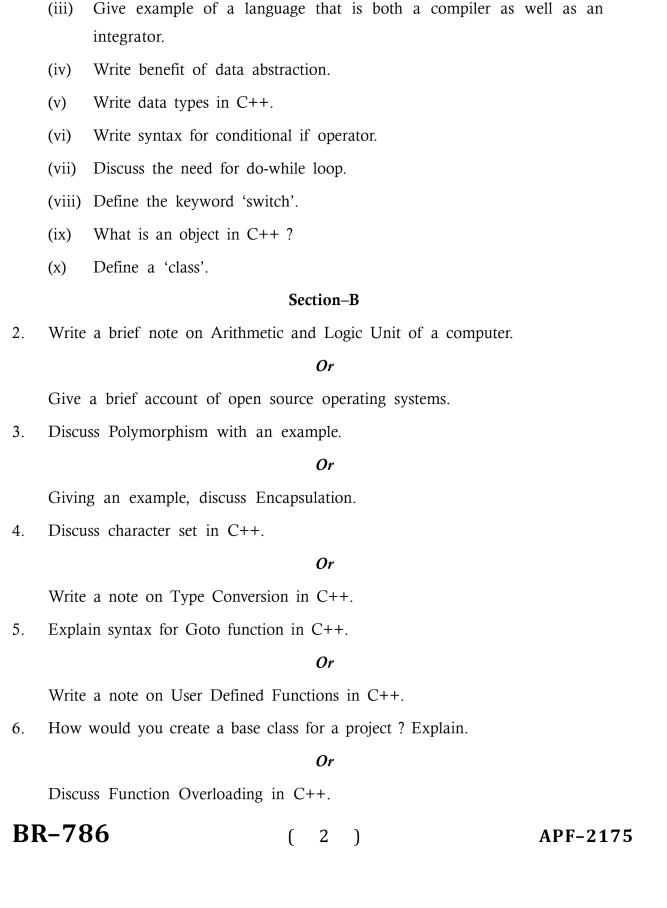
Section–C (Marks:  $15 \times 3 = 45$ )

Note: Answer any three questions out of five (Answer limit 500 words). Each question carries 15 marks.

#### Section-A

- 1. (i) What is the meaning of ASCII Code?
  - (ii) Write function of Address Data Bus.

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#### Section-C

7.	(a)	Bring out the difference between pseudocode and flowchart.	5			
	(b)	Draw a flowchart for solving a quadratic equation.				
	(c)	Write a pseudocode for matrix multiplication problem.	5			
8.	(a)	Write features of Procedural languages. Explain by an example.	5+2=7			
	(b)	Discuss benefits of Object Oriented Paradigm giving an example.	6+2=8			
9.	Discuss operator Precedence and Associativity for the following operators in					
	C++ giving syntax for each :					
	(i)	Shift Operator				
	(ii)	Equality operator				
	(iii)	Relational operator				
	(iv)	Multiplicative operator				
	(v)	Additive operator.	15			
10.	Explain the following giving proper syntax for each:					
	(i)	Define a one dimensional array.				
	(ii)	Define a two dimensional array.				
	(iii)	Adding data to Array.				
	(iv)	Size of operator.				
	(v)	Creating Arrays of objects.	3×5=15			
11.	(a)	Discuss Constructor Functions				
	(b)	Discuss Destructor Functions.				
	(c)	Write a note on inheritance in C++.	5×3=15			