b) Write a program to find out the largest of three given numbers. 6

UNIT-III

4. a) When a multi-dimensional array is passed to a function, how are the formal argument declarations written? Compare with one-dimensional arrays. 6

OR

b) Write a C program for counting the number of characters, words and lines in a given text. 6

UNIT-IV

5. a) Explain about a parameter passing mechanism to a function with examples. 6

OR

b) Write C function to compare the two given strings without using library functions. 6

UNIT-V

6. a) Write notes on structures. 6

OR

b) Write a program using pointers to find out the sum of the diagonal elements in a 4 x 4 matrix. 6

[41/III T/108]
[41/III T/308]
[MURBM 306 / MPIBA 0306]

BBM & IMBA DEGREE EXAMINATION
III TRIMESTER

PROBLEM SOLVING AND PROGRAMMING IN C
(Effective from the admitted batch 2008–09)

Time: 3 Hours  Max.Marks: 40

Instructions: All parts of the unit must be answered in one place only.
Figures in the right hand margin indicate marks allotted.

SECTION-A

1. Answer any FIVE of the following:
   Each answer should not exceed one page.  \( 5 \times 2 = 10 \)
   a) What are key words in C?
   b) Write down the symbols of a Flow chart.
   c) Define Boolean expression.
   d) What is conditional operator? Give syntax and example.
   e) Give the declaration of two dimensional arrays.
   f) Define Function and classify functions.
   g) Give the declaration of a pointer variable.
   h) What is the difference between structure and union?

SECTION-B

Answer the following:

UNIT-I

2. a) Explain the different programming Techniques.  \( \text{6} \)
   OR
   b) Draw a flowchart to find all prime factors of a given number.  \( \text{6} \)

UNIT-II

3. a) Explain about the increment and decrement operators, conditional operators in C.  \( \text{6} \)
b) Write a program to find out the largest of three given numbers. 6

UNIT-III

4. a) When a multi-dimensional array is passed to a function, how are the formal argument declarations written? Compare with one-dimensional arrays. 6

OR

b) Write a C program for counting the number of characters, words and lines in a given text. 6

UNIT-IV

5. a) Explain about a parameter passing mechanism to a function with examples. 6

OR

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OR

b) Write a program using pointers to find out the sum of the diagonal elements in a 4 x 4 matrix. 6

[41/III T/108]
[41/III T/308]
SECTION-A

1. Answer any FIVE of the following: Each answer should not exceed one page. (5 x 2 = 10)
   a) What are key words in C?
   b) Write down the symbols of a Flow chart.
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   d) What is conditional operator? Give syntax and example.
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   g) Give the declaration of a pointer variable.
   h) What is the difference between structure and union?

SECTION-B

Answer the following:

UNIT-I

2. a) Explain the different programming Techniques. 6

   OR

   b) Draw a flowchart to find all prime factors of a given number. 6

UNIT-II

3. a) Explain about the increment and decrement operators, conditional operators in C. 6