

Code No: R07A1EC04

R07

Set No. 2

**I B.Tech Examinations, June 2011
COMPUTER PROGRAMMING
Common to Mechanical Engineering, Mechatronics, Production
Engineering, Automobile Engineering**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) Write a 'C' program to find sum of digits of an integer using while loop.
(b) Give the features of for - loop. [10+6]
2. (a) What is the purpose of using header file?
(b) Write a 'C' program to find power of a given number using recursive function. [6+10]
3. Define Structure and write the general format for declaring and accessing structure members with an example. [16]
4. (a) Define tree and binary tree. Explain in detail.
(b) Define graph and its terms. Explain in detail. [8+8]
5. (a) What are the advantages of using pointers?
(b) Explain static memory allocation. [8+8]
6. Explain the operation of sequential access file, mention its advantage and disadvantage with example. [16]
7. (a) Write a 'C' program to find radius of circle.
(b) Write a 'C' program to find area of circle. [8+8]
8. Write an algorithm for routine merge{x,lb1,ub1,ub2} that assumes that x[lb1] through x[ub1] and x[ub1 + 1] through x[ub2] are sorted and merges the two into x[lb1] through x[ub2]. [16]

Code No: R07A1EC04

R07

Set No. 4

**I B.Tech Examinations, June 2011
COMPUTER PROGRAMMING
Common to Mechanical Engineering, Mechatronics, Production
Engineering, Automobile Engineering**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) Define tree and binary tree. Explain in detail.
(b) Define graph and its terms. Explain in detail. [8+8]
2. (a) What is the purpose of using header file?
(b) Write a 'C' program to find power of a given number using recursive function. [6+10]
3. (a) Write a 'C' program to find radius of circle.
(b) Write a 'C' program to find area of circle. [8+8]
4. Write an algorithm for routine $\text{merge}\{x, lb1, ub1, ub2\}$ that assumes that $x[lb1]$ through $x[ub1]$ and $x[ub1 + 1]$ through $x[ub2]$ are sorted and merges the two into $x[lb1]$ through $x[ub2]$. [16]
5. (a) What are the advantages of using pointers?
(b) Explain static memory allocation. [8+8]
6. Explain the operation of sequential access file, mention its advantage and disadvantage with example. [16]
7. Define Structure and write the general format for declaring and accessing structure members with an example. [16]
8. (a) Write a 'C' program to find sum of digits of an integer using while loop.
(b) Give the features of for - loop. [10+6]

**I B.Tech Examinations, June 2011
COMPUTER PROGRAMMING
Common to Mechanical Engineering, Mechatronics, Production
Engineering, Automobile Engineering**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) What are the advantages of using pointers?
(b) Explain static memory allocation. [8+8]
2. Explain the operation of sequential access file, mention its advantage and disadvantage with example. [16]
3. Write an algorithm for routine merge{x,lb1,ub1,ub2} that assumes that x[lb1] through x[ub1] and x[ub1 + 1] through x[ub2] are sorted and merges the two into x[lb1] through x[ub2]. [16]
4. (a) Define tree and binary tree. Explain in detail.
(b) Define graph and its terms. Explain in detail. [8+8]
5. (a) Write a 'C' program to find sum of digits of an integer using while loop.
(b) Give the features of for - loop. [10+6]
6. (a) What is the purpose of using header file?
(b) Write a 'C' program to find power of a given number using recursive function. [6+10]
7. (a) Write a 'C' program to find radius of circle.
(b) Write a 'C' program to find area of circle. [8+8]
8. Define Structure and write the general format for declaring and accessing structure members with an example. [16]

Code No: R07A1EC04

R07

Set No. 3

**I B.Tech Examinations, June 2011
COMPUTER PROGRAMMING
Common to Mechanical Engineering, Mechatronics, Production
Engineering, Automobile Engineering**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. Write an algorithm for routine merge{x,lb1,ub1,ub2} that assumes that x[lb1] through x[ub1] and x[ub1 + 1] through x[ub2] are sorted and merges the two into x[lb1] through x[ub2]. [16]
2. Define Structure and write the general format for declaring and accessing structure members with an example. [16]
3. (a) Write a 'C' program to find sum of digits of an integer using while loop.
(b) Give the features of for - loop. [10+6]
4. (a) What are the advantages of using pointers?
(b) Explain static memory allocation. [8+8]
5. Explain the operation of sequential access file, mention its advantage and disadvantage with example. [16]
6. (a) Define tree and binary tree. Explain in detail.
(b) Define graph and its terms. Explain in detail. [8+8]
7. (a) What is the purpose of using header file?
(b) Write a 'C' program to find power of a given number using recursive function. [6+10]
8. (a) Write a 'C' program to find radius of circle.
(b) Write a 'C' program to find area of circle. [8+8]
