

Code No: NR210503

NR

Set No. 2

**II B.Tech I Semester Examinations, November 2010**  
**DATA PROCESSING AND FILE ORGANISATION**

**Common to Information Technology, Computer Science And Engineering,  
 Computer Science And Systems Engineering**

Time: 3 hours

Max Marks: 80

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

\*\*\*\*\*

1. (a) A relative master file INVENTORY has the following format:  
 Item code( 4 digits)-key field,  
 Item name( 20 characters),  
 Quantity in stock(4 digits).  
 Write a Cobol program to update the STOCK file. [8]
- (b) Distinguish between sequential files and relative files. [8]
2. (a) What is the difference between a direct access memory and random access memory? Is a disk drive direct access memory or random access memory? [8]
- (b) Define the following terms: [4]
  - i. latency time
  - ii. seek time
  - iii. cylinder
  - iv. disk controller
- (c) With a neat block diagram explain magnetic disk memory organization. [4]
3. Explain meaning of following terms:
  - (a) Page footing [5]
  - (b) Control heading [5]
  - (c) Report footing [6]
4. (a) Define a table of data items to contain numbers with a maximum value of 9999. The table is to contain 100 elements and also write the Procedure Division statements required for filling the table with numbers from 1 to 100. [8]
- (b) It is desired to obtain Salesmen-wise total sale from a file containing sales transactions. There are 50 salesmen and their number varies from 1 to 50. The transaction record contains the following item.  
 Salesman no(2digits),date of sale(6digits), sale amount. Write a program which prints the total sales amount for each sales man. [8]
5. (a) Give the syntax and explanation through examples of any three forms of PERFORM verb. [9]
- (b) What are the various editing function available in COBOL? Explain it detail (with examples) any three editing functions. [7]

Code No: NR210503

NR

Set No. 2

6. (a) What is the function of class condition? Write the structure of a class condition and write various rules of class condition. Illustrate through examples. [8]
- (b) What is the use of Condition-Name condition? Write the rules applicable for a Condition-Name condition. Illustrate through examples. [8]
7. Explain binary search procedure and how this is implemented in COBOL explain with example program. [16]
8. (a) What does "Check Digit" mean? Explain "modulus 10 method" for calculating Check digit. [10]
- (b) Explain the Division Remainder method clearly with an example. [6]

\*\*\*\*\*

Code No: NR210503

NR

Set No. 4

**II B.Tech I Semester Examinations, November 2010**  
**DATA PROCESSING AND FILE ORGANISATION**

**Common to Information Technology, Computer Science And Engineering,  
Computer Science And Systems Engineering**

Time: 3 hours

Max Marks: 80

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

\*\*\*\*\*

1. (a) What is the difference between a direct access memory and random access memory? Is a disk drive direct access memory or random access memory? [8]
- (b) Define the following terms: [4]
  - i. latency time
  - ii. seek time
  - iii. cylinder
  - iv. disk controller
- (c) With a neat block diagram explain magnetic disk memory organization. [4]
2. Explain binary search procedure and how this is implemented in COBOL explain with example program. [16]
3. (a) What is the function of class condition? Write the structure of a class condition and write various rules of class condition. Illustrate through examples. [8]
- (b) What is the use of Condition-Name condition? Write the rules applicable for a Condition-Name condition. Illustrate through examples. [8]
4. Explain meaning of following terms:
  - (a) Page footing [5]
  - (b) Control heading [5]
  - (c) Report footing [6]
5. (a) Give the syntax and explanation through examples of any three forms of PERFORM verb. [9]
- (b) What are the various editing function available in COBOL? Explain it detail (with examples) any three editing functions. [7]
6. (a) What does "Check Digit" mean? Explain "modulus 10 method" for calculating Check digit. [10]
- (b) Explain the Division Remainder method clearly with an example. [6]

Code No: NR210503

NR

Set No. 4

7. (a) A relative master file INVENTORY has the following format:  
Item code( 4 digits)-key field,  
Item name( 20 characters),  
Quantity in stock(4 digits).  
Write a Cobol program to update the STOCK file. [8]
- (b) Distinguish between sequential files and relative files. [8]
8. (a) Define a table of data items to contain numbers with a maximum value of 9999.  
The table is to contain 100 elements and also write the Procedure Division  
statements required for filling the table with numbers from 1 to 100. [8]
- (b) It is desired to obtain Salesmen-wise total sale from a file containing sales  
transactions. There are 50 salesmen and their number varies from 1 to 50.  
The transaction record contains the following item.  
Salesman no(2digits),date of sale(6digits), sale amount. Write a program  
which prints the total sales amount for each sales man. [8]

\*\*\*\*\*

Code No: NR210503

NR

Set No. 1

**II B.Tech I Semester Examinations, November 2010**  
**DATA PROCESSING AND FILE ORGANISATION**

**Common to Information Technology, Computer Science And Engineering,  
 Computer Science And Systems Engineering**

Time: 3 hours

Max Marks: 80

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

\*\*\*\*\*

1. Explain meaning of following terms:

- (a) Page footing [5]
- (b) Control heading [5]
- (c) Report footing [6]

2. (a) What is the difference between a direct access memory and random access memory? Is a disk drive direct access memory or random access memory? [8]

(b) Define the following terms: [4]

- i. latency time
- ii. seek time
- iii. cylinder
- iv. disk controller

(c) With a neat block diagram explain magnetic disk memory organization. [4]

3. (a) What does "Check Digit" mean? Explain "modulus 10 method" for calculating Check digit. [10]

(b) Explain the Division Remainder method clearly with an example. [6]

4. (a) Give the syntax and explanation through examples of any three forms of PERFORM verb. [9]

(b) What are the various editing function available in COBOL? Explain in detail (with examples) any three editing functions. [7]

5. (a) What is the function of class condition? Write the structure of a class condition and write various rules of class condition. Illustrate through examples. [8]

(b) What is the use of Condition-Name condition? Write the rules applicable for a Condition-Name condition. Illustrate through examples. [8]

6. Explain binary search procedure and how this is implemented in COBOL explain with example program. [16]

Code No: NR210503

NR

Set No. 1

7. (a) A relative master file INVENTORY has the following format:  
Item code( 4 digits)-key field,  
Item name( 20 characters),  
Quantity in stock(4 digits).  
Write a Cobol program to update the STOCK file. [8]
- (b) Distinguish between sequential files and relative files. [8]
8. (a) Define a table of data items to contain numbers with a maximum value of 9999.  
The table is to contain 100 elements and also write the Procedure Division  
statements required for filling the table with numbers from 1 to 100. [8]
- (b) It is desired to obtain Salesmen-wise total sale from a file containing sales  
transactions. There are 50 salesmen and their number varies from 1 to 50.  
The transaction record contains the following item.  
Salesman no(2digits),date of sale(6digits), sale amount. Write a program  
which prints the total sales amount for each sales man. [8]

\*\*\*\*\*

Code No: NR210503

NR

Set No. 3

**II B.Tech I Semester Examinations, November 2010**  
**DATA PROCESSING AND FILE ORGANISATION**

**Common to Information Technology, Computer Science And Engineering,  
 Computer Science And Systems Engineering**

Time: 3 hours

Max Marks: 80

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

\*\*\*\*\*

1. (a) What is the function of class condition? Write the structure of a class condition and write various rules of class condition. Illustrate through examples. [8]
- (b) What is the use of Condition-Name condition? Write the rules applicable for a Condition-Name condition. Illustrate through examples. [8]
2. (a) Define a table of data items to contain numbers with a maximum value of 9999. The table is to contain 100 elements and also write the Procedure Division statements required for filling the table with numbers from 1 to 100. [8]
- (b) It is desired to obtain Salesmen-wise total sale from a file containing sales transactions. There are 50 salesmen and their number varies from 1 to 50. The transaction record contains the following item.  
 Salesman no(2digits), date of sale(6digits), sale amount. Write a program which prints the total sales amount for each sales man. [8]
3. Explain binary search procedure and how this is implemented in COBOL explain with example program. [16]
4. (a) What does "Check Digit" mean? Explain "modulus 10 method" for calculating Check digit. [10]
- (b) Explain the Division Remainder method clearly with an example. [6]
5. Explain meaning of following terms:
  - (a) Page footing [5]
  - (b) Control heading [5]
  - (c) Report footing [6]
6. (a) What is the difference between a direct access memory and random access memory? Is a disk drive direct access memory or random access memory? [8]
- (b) Define the following terms: [4]
  - i. latency time
  - ii. seek time
  - iii. cylinder
  - iv. disk controller

Code No: NR210503

NR

Set No. 3

- (c) With a neat block diagram explain magnetic disk memory organization. [4]
7. (a) A relative master file INVENTORY has the following format:  
Item code( 4 digits)-key field,  
Item name( 20 characters),  
Quantity in stock(4 digits).  
Write a Cobol program to update the STOCK file. [8]
- (b) Distinguish between sequential files and relative files. [8]
8. (a) Give the syntax and explanation through examples of any three forms of PERFORM verb. [9]
- (b) What are the various editing function available in COBOL? Explain it detail (with examples) any three editing functions. [7]

\*\*\*\*\*