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P. Pages : 2

Time : Three Hours

**NRT/KS/19/3581**

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
  2. Solve Question 1 OR Questions No. 2.
  3. Solve Question 3 OR Questions No. 4.
  4. Solve Question 5 OR Questions No. 6.
  5. Solve Question 7 OR Questions No. 8.
  6. Solve Question 9 OR Questions No. 10.
  7. Solve Question 11 OR Questions No. 12.
  8. Due credit will be given to neatness and adequate dimensions.

1. a) Write a short note on : Main frame operating system. 5  
b) What is data set? Explain dataset management in main frame. 5  
c) Write a benefits of main frame computers. 3

**OR**

2. a) What are the key features of main frame computers. 6  
b) Explain Basic TBM main frame architecture in detail. 7
3. a) Explain the role of CICS in online transaction processing. 7  
b) What is VSAM? Write its advantages & disadvantages. 6

**OR**

4. a) Explain Buffer management in Z-OS operating system. 6  
b) How does Z/OS differ from single user operating system? Give two example. 7
5. Write a short note on  
i) SORT/MERGE Utilities. 5  
ii) Instream and catalog procedure. 5  
iii) Generation Data Group. 4

**OR**

6. a) Explain Job control language along with its structure. 7  
b) Explain Data definition statement in JCL. 7

7. a) Write the syntaxes of REDEFINE, RENAME and USAGE Clause. Also give example of each. 8
- b) Explain different COBOL conditional statement. 6

**OR**

8. a) What is picture clause? Explain various picture characters and editing characters used in COBOL. 7
- b) Write the syntax of all Divisions in COBOL program. 7
9. a) Write syntax of 6
- i) Sort Verb
- ii) Merge Verb
- With input output procedure.
- b) What is table handling? Explain occur clause with example. 7

**OR**

10. a) What are different file organization in COBOL? Explain one of them in detail. 7
- b) Define: 6
- i) Physical Record
- ii) Logical Record
- iii) Blocking Factor.
11. Write short note on:
- i) Embedded sql programming. 4
- ii) Cursor programming. 4
- iii) Locking and concurrency 5

**OR**

12. a) Explain in detail: DB2 application development overview. 8
- b) How sql execution validation is achieved. 5

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**The best time to plant a tree was 20 years ago. The second best time is now.**

**~ Chinese Proverb**

