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P. Pages : 2

Time : Three Hours

**NIR/KW/18/3581**

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. Assume suitable data whenever necessary.

1. a) Explain basic IBM mainframe architecture? **7**
- b) What are the key features of main frame computers. **6**

**OR**

2. a) Explain evolution of mainframe computer. **7**
- b) What are the different operating system supported by mainframe computer? **6**
3. a) What is VSAM? Write its advantages and disadvantages? **7**
- b) Explain buffer management in Z/OS. **7**

**OR**

4. a) What are the three major types of storage used by Z/OS. **7**
- b) Name five jobs or responsibilities that are related to mainframe computing. **7**
5. Write short note on.
  - a) Instream & catalog procedure. **5**
  - b) Generation Data Group (GDG) **5**
  - c) IBM utility programs. **3**

**OR**

6. a) What is Job control language? Explain JCL statement & procedure? **7**
- b) Briefly describe VSAM data sets. **6**
7. a) What is generation data group? **7**
- b) How many divisions are there in COBOL. Explain each in details. **6**

**OR**

8. a) What is picture clause? Explain various picture characters and editing characters used in COBOL. 7
- b) Explain different COBOL condition statement. 6
9. a) Explain COBOL verbs, control sequence & table handling in COBOL. 8
- b) Explain subroutine in COBOL. 6

**OR**

10. a) Explain following terms in detail. 10
- i) Physical Record
- ii) Logical Record
- iii) Block
- iv) Blocking factor
- v) Buffering
- b) What is the difference between REDEFINE & RENAME clause. 4
11. a) State functions of the IMS database manager. 7
- b) Explain different datatypes used in DB2. 6

**OR**

12. a) Explain in details: DB2 application development overview. 7
- b) Explain occurrence control & locking phase in DB2. 6

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**The secret of getting ahead is getting started.**

**~ Mark Twain**

