

B.E. (Computer Technology) Fourth Semester (C.B.S.)  
**Introduction to Main Frame Languages**

P. Pages : 2

Time : Three Hours



**NIR/KW/18/3377**

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.
  9. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Explain in detail classification of computer : 7  
i) Micro ii) Mini  
iii) Mainframe iv) Supercomputer

- b) What is mainframe computers? Explain key features of it. 7

**OR**

2. a) Explain in detail evolution of mainframe computer. 7  
b) Write a short note on: 7  
i) Batch processing ii) Paging & Swapping

3. a) Explain program execution modes in detail. 6  
b) Write short note on: 7  
i) VSAM ii) DASD

**OR**

4. a) Explain Multiple Virtual system and address space. 7  
b) Explain in detail Z-OS operating system. 6

5. a) Explain the following : 9  
i) JOB statement ii) EXEC statement  
iii) DD statement

- b) Explain in detail JCL procedure. 4

**OR**

6. a) How job processing is carried out by JCL? 6  
b) Explain IBM utility program. 7

7. a) Write the syntax of all Divisions in COBOL program. 9  
b) What are the various figurative constant? Explain their uses. 5

**OR**

8. a) Explain all PICTURE clauses with example. 7  
b) Write the syntax of REDEFINE, RENAMES and USAGE clause. 7
9. a) Explain the use of Following level number 66, 88 and 77 7  
b) Write & explain syntax with suitable example for following: 6  
i) SORT verb ii) STRING verb  
iii) UNSTRING verb

**OR**

10. a) Explain WRITE & REWRITE statement for Relative file with example. 3  
b) Compare SEARCH & SEARCH ALL with suitable example. 4  
c) Explain different file organization and their access mode? 6
11. a) Explain different types of ABEND codes. 7  
b) Explain the relationship between COBOL file handling program and JCL. 6

**OR**

12. a) Explain the following in detail: 6  
i) Database Request Module ii) Application Plan/package  
b) Explain various program execution modes. 7

\*\*\*\*\*