

Faculty of Engineering & Technology

Fourth Semester B.E. (C.T.) (C.B.S.) Examination

INTRODUCTION TO MAINFRAME LANGUAGES

Paper—V

Time : Three Hours]

[Maximum Marks : 80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Solve Question 1 OR Question No. 2
- (3) Solve Question 3 OR Question No. 4
- (4) Solve Question 5 OR Question No. 6
- (5) Solve Question 7 OR Question No. 8
- (6) Solve Question 9 OR Question No. 10
- (7) Solve Question 11 OR Question No. 12

1. (a) Explain the classification of computer in detail. 8
- (b) Write short notes on :
 - (i) Paging
 - (ii) Storage Manager. 5

OR

2. (a) Explain job processing, Batch processing, online processing. 7
- (b) What is data set ? Explain dataset management in mainframes. 4
- (c) What is address space ? 2

3. (a) Explain in detail Z — OS operating system. 7
 (b) Explain VTOC and MVs. 6

OR

4. (a) Explain DASD Access methods. 7
 (b) Explain VSAM access methods. 6
5. (a) Explain the Job Control language along with its structure. 7
 (b) Explain various statements in JCL. 7

OR

6. Write short notes on :
 (i) Structure of JCL Statements. 4
 (ii) JCL Procedures. 5
 (iii) IBM Utility Programs. 5
7. (a) Write the syntax of all the Divisions in COBOL program. 8
 (b) What are the various figurative constants ? Explain their uses. 5

OR

8. (a) Explain all PICTURE clause with example. 7
 (b) Explain the arithmetic verbs with example. 6
9. (a) Write a COBOL program to create sequential file for employee database; record fields are Emp_no, name, Basic salary & Department , display the employee information. 7

(b) Write and explain syntax with suitable example for following (any TWO) :

(i) SORT Verb

(ii) STRING Verb

(iii) MERGE Verb.

6

OR

10. (a) Explain the following terms in detail (any FOUR):—

(i) Physical Record

(ii) Logical Record

(iii) Block

(iv) Blocking factor

(v) Buffering.

8

(b) What are different file organizations and their access mode ?

5

11. (a) Explain different types of ABEND codes.

8

(b) Explain the relationship between COBOL file handling program and JCL.

6

OR

12. Write short notes on :

(i) COBOL coding standards.

4

(ii) Database Request Module (DBRM).

4

(iii) EDIT JCL.

3

(iv) Application Packages in mainframe.

3