Faculty of Engineering & Technology
Fourth Semester B.E. (Computer Technology) (C.B.S.)
Examination
INTRODUCTION TO MAIN FRAME LANGUAGE
Paper–V

Time—Three Hours]　　　　　　[Maximum Marks—80

INSTRUCTIONS TO CANDIDATES
All questions carry marks as indicated.

1. (a) Explain in detail the classification of computer – micro, mini, mainframe and supercomputer.　6

   (b) What is mainframe computer ? Explain key features of mainframe computers.　7

OR

2. (a) Write short note on operating system of mainframe.　5

   (b) Differentiate between :

   (i) Batch processing and online processing

   (ii) Mainframe and super computer.　8

3. (a) Explain paging process in Z/OS.　5

   (b) What is address space ? Explain in detail MVS address space.　5

   (c) What is data set ? Explain sequential and partial data set.　4

OR

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4. Write short notes on (any **FOUR**) :

   (i)   VSAM

   (ii) DASD

   (iii) VTOC

   (iv) CATALOG

   (v) Record formats.   **14**

5. (a) What is JCL ? Also explain the structure of JCL.

                                                   4

   (b) Explain the following statements in JCL :

      (i)   JOB

      (ii) EXEC

      (iii) DD.   **9**

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OR

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6. (a) What are JCL procedures ? Explain with example.

                                                 6

   (b) Write short note on IBM utility programs.   **7**

7. (a) Explain COBOL coding sheet and structure of COBOL program.   **6**

   (b) Explain data division in COBOL. Write the data division entry for the following file record :

Position	Description
1 — 6	Rollno (alphanumeric)
7 — 30	Name (alphanumeric)
31 — 40	Course Name (alphanumeric)
41 — 43	Marks Obtained (numeric)

                                                       8

OR

8. (a) Explain REDEFINE and RENAME clause with example. 6

   (b) Write a COBOL program to print factorial of a number using arithmetic verbs. 5

   (c) Explain different level numbers in COBOL. 3

9. (a) Explain different file organization techniques in COBOL. 5

   (b) Write a COBOL program to create sequential file for student database, record fields are roll no, name, branch, semester; also display student information. 8

OR

10. (a) Write a program to create account table with 3 fields acc. no., acc. name and amount. Using occur clause, search a table to display a record with particular name. 8

    (b) Explain SORT and MERGE verb in COBOL with example. 5

11. (a) Explain COBOL–DB2 program precompilation. 7

    (b) Explain the relationship between COBOL file handling program and JCL. 6

OR

12. (a) Explain following :

    (i)   Database Request Module (DBRM)

    (ii)   Application Plan/packages.   8

  (b) Explain following program execution methods :

    (i)   EDIT JCL

    (ii)   Foreground mode.   5