

10. (a) Differentiate between :
- (i) Physical record and logical record
 - (ii) File name and File-id. 4
- (b) How to define 1D and 2D tables in COBOL ? Explain with suitable example. 4
- (c) Write syntax of :
- (i) sort verb
 - (ii) merge verb
- with Input and Output procedure. 6
11. (a) Explain in detail : DB2 application development overview. 7
- (b) Define DB2 objects and datatypes along with example. 6

OR

12. (a) Write short notes on :
- (i) Embedded sql programming 8
 - (ii) Cursor programming. 8
- (b) How sql execution validation is achieved. 5

Faculty of Engineering & Technology
Seventh Semester B.E. (C.S.E.) (C.B.S.) Examination
Elective—II : MAIN FRAME TECHNOLOGIES

Time—Three Hours] [Maximum Marks—80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Solve Question No. **1 OR** Question No. **2**.
- (3) Solve Question No. **3 OR** Question No. **4**.
- (4) Solve Question No. **5 OR** Question No. **6**.
- (5) Solve Question No. **7 OR** Question No. **8**.
- (6) Solve Question No. **9 OR** Question No. **10**.
- (7) Solve Question No. **11 OR** Question No. **12**.
- (8) Due credit will be given to neatness and adequate dimensions.
- (9) Assume suitable data wherever necessary.
- (10) Illustrate your answers wherever necessary with the help of neat sketches.

1. (a) Explain Basic TBM Main frame Architecture in detail. 8
- (b) What are the key features of main frame computers. 5

OR

2. (a) What is data set ? Explain data set management in main frames. 4
 (b) Write short note on : Main Frame Operating System. 6
 (c) Write benefits of Main Frame Computer. 3
3. (a) Explain in detail Z-OS operating system. 8
 (b) Write down the advantages and disadvantages of VSAM. 5

OR

4. (a) Explain Buffer Management in Z-OS operating system. 6
 (b) Explain in brief : CICS. 3
 (c) Explain VSAM access method. 4
5. (a) Explain the Job Control Language along with its structure. 7
 (b) Explain various statements in Job Control Language (JCL). 7

OR

6. Write short notes on :
- (i) SORT/MERGE utilities 5
 (ii) Generation Data Group (GDG) 4
 (iii) Instream and Catalog Procedure. 5

7. (a) Explain various types of conditions used in COBOL Control Structure. 7
 (b) Explain in detail DATA DIVISION alongwith its complete syntax. Elaborate on the importance of FILE SECTION and WORKING-STORAGE SECTION. 6

OR

8. (a) Discuss the following clauses with an example :
- (i) RENAME
 (ii) REDEFINE
 (iii) JUSTIFIED 6
- (b) What is picture clause ? Explain various picture characters and editing characters used in COBOL. 7
9. (a) What are the various file organizations available for file ? Write SELECT clause for each. 7
 (b) Write a COBOL program to sort an unsosrted file in ascending order using records :
- (i) roll no
 (ii) name
 (iii) marks
 key : marks 7

OR