

SRK/KW/14-7010

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

Examination

INTRODUCTION TO MAINFRAME LANGUAGE

Paper - V

Time : Three Hours]

[Max. Marks : 80

- N. B. : (1) Same answer book must be used for both sections.
(2) All questions carry marks as indicated.
(3) Due credit will be given to neatness and adequate dimensions.
(4) Assume suitable data wherever necessary.
(5) Illustrate your answers wherever necessary with the help of neat sketches.

1. (a) What is a mainframe computer ? Explain key features of it. 6
(b) Explain the evolution process of main frame system. Also explain hardware system changes done in main frame computer. 7

OR

2. (a) Explain the role of operating system as a resource manager. What are the different resources, of a computer system ? 7
(b) Give the comparison among batch process Vs. online processing. 6

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Contd.

3. (a) Write short notes on :—
- (1) Dataset management in main frame 4
 - (2) Paging and swapping. 3
- (b) Explain in detail the key features of Z/OS. Also explain its paging process and storage management. 7

OR

4. (a) Write short notes on :—
- (i) DASD 7
 - (ii) VSAM 7
 - (iii) VTOC 7
- (b) Explain paging process in Z/OS 7
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

OR

6. (a) What are JCL procedures ? Explain with example. 6
- (b) Write short note on IBM utility program. 7
7. (a) Explain ENVIRONMENT and DATA DIVISION of COBOL. Give its complete syntax with all section and paragraph. 7

- (b) Explain COBOL coding sheet in detail with suitable example. Also explain the importance of column position 7 in the COBOL coding sheet. 6

OR

8. (a) Write a COBOL program to sort the 20 numbers acquired from keyboard. Use the bubble sort technique. 7
- (b) Write short notes on :—
- (i) Data movement verb
 - (i) Renames clause
 - (ii) Compute statement 6
9. Write a COBOL program to create the updated master stock file from available master stock and Transaction file. Master stock file record structure is as follows :—
Part-name, part-code, part-qty
Transactionfile record structure is as follows :
Part-code, part-name, part-price Part-Qty
Assume suitable data item names, picture width etc. 14
10. Write a COBOL program to create the sequential files from available input sequential file. There are three input sequential files. The record structure for these input files is as follows.
Record structure for FILE 1:
Name, Roll No. marks of
Subjects (sub 1, , sub 2, sub.3) Attendance.
Record structure for File 2:

Roll No. Part-exam Marks (exam-1 exam-2)

Record structure for FILE 3:

Roll No., Name, Attendance

(Last but-one-Session Last Session)

Assume that the students, are presently in third year, exam 1 and last but one session is related to first year and exam 2 and last session is related to second year.

You have to create the two sequential files. First output file should be stored on a disk and second should print the report card. Record structure for first file is

Roll No, Name, Total marks, percentage of each year, total percentage.

For second file:

Roll No, name, attendance, total percentage, grade.

Criteria for grade is and follows :

Grade	Percentage
A	$\geq 75\%$
B	$\geq 60 \ \& \ \leq 74$
C	$\geq 55 \ \& \ \leq 59$

Assume suitable data-item names, file name, picture width. 14

11. (a) Explain COBOL DBL program precompilation. 7

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

OR

12. (a) Explain the following :—

(1) Database request module.

(2) Application package.

6

(b) Write short notes on :—

(i) ABEND codes

4

(i) EDIT- JCL

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