B.E. (Computer Technology) Fourth Semester (C.B.S.)

Introduction to Mainframe Languages Paper – V

P. Pages : 2

Time : Three Hours

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Max. Marks : 80

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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. Due credit will be given to neatness and adequate dimensions.
9. Assume suitable data whenever necessary.
10. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Explain computer Architecture in detail. **5**

   b) What are the key features of mainframe computers. **4**

   c) Write short notes on: **5**
      i) Virtual storage.   ii) Swapping.

OR

2. a) Explain classification of computer in detail. **7**

   b) Explain in mainframe, Job processing, Batch processing. **5**

   c) What is Buffer Management? **2**

3. a) Explain program execution modes in detail. **6**

   b) Explain in detail Z – OS operating system. **7**

OR

4. a) Write short note on DASD Access methods. **6**

   b) Explain Multiple Virtual System (MVS) and MVS address space. **7**

5. a) Explain the Job control Language along with its structure. **7**

   b) Explain various statements in JCL. **6**

OR

6. a) What are IBM utility program? Explain in detail. **6**

   b) Write short notes on: **7**
      i) JCL procedure.   ii) Structure of JCL statements.

7.	a)	Write the syntax of all Divisions in COBOL program.	**8**
	b)	Write short notes on: i) Input / Output verbs. ii) Arithmetic verbs.	**6**

OR

8.	a)	Explain all PICTURE clause with example.	**6**
	b)	Write the syntaxes of REDEFINE, RENAMES and USAGE clause. Also give example of each.	**8**
9.	a)	Differentiate SEARCH and SEARCH ALL verb.	**5**
	b)	Write and explain syntax with suitable example for following **any two**. i) SORT verb ii) STRING verb iii) UNSTRING verb.	**8**

OR

10.	a)	Explain the following terms in detail. i) Physical Record ii) Logical Record iii) Block iv) Blocking factor v) Buffering.	**10**
	b)	What are the different file access modes.	**3**
11.	a)	What are the different types of ABEND codes? Explain.	**6**
	b)	Explain the relationship between a COBOL file handling program & JCL.	**7**

OR

12.	a)	Explain various program execution methods.	**5**
	b)	Write a note on DBRM.	**4**
	c)	Enlist Application packages in Mainframe.	**4**

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