Faculty of Engineering & Technology

Fourth Semester B.E. (Compt. Tech.) C.B.S.

Examination

INTRODUCTION TO MAINFRAME LANGUAGE

Paper-V

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.
- 1. (a) With the help of neat sketch, explain in detail the working principle of mini computer. Also explain its key features and benefits.

(b) Give classification of computers. Compare all the given below computer systems on their key features:
(1) Micro computer
(2) Mainframe computer
(3) Supercomputer. 7
OR
2. (a) What is an operating system? Give some example of operating system used for mainframe computer system.
(b) Explain the following:
(i) Sequential dataset
(ii) Partial dataset
(iii) Paging
(iv) Storage manager. 8
3. (a) Write short notes on the following:
(i) Virtual Storage
(ii) Multiple Virtual System (MVS)
(iii) Virtual Storage Access Method. 6
(b) Explain in detail Z-operating system (Z/OS). 7
OR

4.	4. (a) Explain in detail different Access methods and		
		Record formats used in Direct Access	Storage
		Devices (DASD).	7
	(b)	Explain paging process in Z/OS.	6
5.	(a)	Explain the Job control language.	7
	(b)	Explain in detail structure of JCL statem	nents.
			6
		OR	
6.	Wr	ite detailed notes on the following:	
	(i)	JOB Statement	3
	(ii)	EXEC Statement	. 3 .
	(iii)	DD Statement	3
	(iv)	JCL procedures.	4
7.	(a)	What are figurative constants? Give exa	mples.
	, ,	Also explain different types of literals.	7
	·(b)	Explain the importance of column number	er 7 in
•		the COBOL coding sheet.	4
	(c)	What are the different rules for forming	g user
	, .,	defined word in COBOL?	2
OR			

8.	(a)	Explain the importance of following level Give suitable example for each:	no.
		(i) 77	
		(ii) 66	
•		(iii) 88.	6
	(b)	Write short notes on the following:	
		(i) USAGE clause	
		(ii) PIC and VALUE clause.	7
9.	(a)	Write the FILE-CONTROL paragraph entri required for the following types of fi organization:	ies ile
		(i) Sequential file	

(ii) Indexed sequential file (iii) Relative file.

and MERGE.)

MVM-44978

(b) Discuss and explain the syntax and format of SORT and MERGE. Give example for each. (Example should include the use of input and output procedure, whichever is relevant to SORT

OR

no.

(Contd.)

10. Write a COBOL program to create a sequential file from the standard console. The data acquired from user must be present in the file in the following record structure :

Name_of_student	X (15)
Roll_No	X(5)
DPFS_Marks	9(3)
DPPL_Marks	9(3)
DAA_Marks	9(3)
SE_Marks	9(3)
IME Marks	9(3)

Now create the output file from the above mentioned input sequential file. The record structure of the output sequential file is as following:

	one wing .		
Roll_No.	Name of Student	Subject	Marks
A001	· ABCD	DPPL	29
	•	DPFS	30
		DAA	49
		Total	108
A002	XYZ	IME	40
		SE	40
		DPFS	40
		Total	120

Assume suitable data wherever required.

(Contd.) MVM-44978

11.	(a)	What are the different COBOL standard? Explain in detail.	coding 7
	(b)	Explain the relationship between COB handling program and JCL.	OL file
	i.	OR	
12.	Wŗi	te short notes on following:	
	(i)	DBRM	4
	(ii)	ABEND Codes	. 3
	(iii)	EDIT-JCL	3
	(iv)	COBOL-DB2 Program Pre-compilation.	3