



- 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) What is mainframe? What are the factors contributing to mainframe use? 7
b) Explain typical mainframe workloads. 6

OR

2. a) Explain basic IBM mainframe Architecture. 7
b) What is coupling facility? 6
3. a) Name five jobs or responsibilities that are related to mainframe computing. 7
b) List three strengths of mainframe computing and outline the major types of workloads for which mainframes are best suited. 7

OR

4. a) How does Z/OS differ from single-user operating system? Give two examples. 7
b) Explain the role of CICS in online transaction processing. 7
5. a) State the advantages & disadvantages of VSAM. 6
b) Briefly describe VSAM data sets. 7

OR

6. Explain Allocating space on DASD volumes through JCL. 13
7. a) What is generation data group? 7
b) Why is a PPS used. 6

OR

8. a) Explain evolution of COBOL language. 7
b) How many divisions are there in COBOL. Explain each in detail. 6
9. a) What is the difference between REDEFINE & RENAME clause. 5
b) Explain Cobol verbs, control sequence & Table Handling in Cobol. 8

OR

10. a) What are different file processing technique in COBOL. State each in detail. 7
b) Explain subroutines in Cobol, with example. 6
11. a) What is DB2? Explain in detail. 7
b) Write a short note on application development overview in DB2. 7

OR

12. a) State functions of the IMS database manger. 7
b) Explain concurrency control & locking phase in DB2. 7

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