

Reg. No. : .....

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Name : .....

**Second Semester M.C.A. Degree Examination, October 2006**  
**BUSINESS DATA PROCESSING**

Time: 3 Hours

Max. Marks: 75

*Instruction: Answer all questions from Part A and five questions from Part B, one each from Unit I and III and three from Unit II.*

**PART – A**

1. Discuss the various techniques for data collection in a data processing system.
2. What do you mean by master files and transaction files ?
3. Define a file and a record.
4. Write COBOL statements for the following:
  - a) Add the value of BONUS to TOTAL\_PAY.
  - b) Calculate DA which is 70% of Basic pay.
5. Discuss the important divisions in a COBOL program.
6. What do you mean by relational condition and class condition ?
7. What do you mean by data independence ?
8. Give examples of DML and DDL commands. (any two each)
9. What are the different data models ?
10. How is redundancy avoided in a database ?

**PART – B**

**UNIT – I**

Answer any one :

11. Explain any one file recovery procedure.
12. Discuss the various steps in business data processing.

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UNIT – II

Answer **any three** :

13. Write a COBOL program which inputs 50 employee records as follows.

Column 1 – 10 : Name  
11 – 15 : Basic pay  
16 – 20 : DA  
21 – 23 : CCa  
24 – 28 : Total pay

Total pay = Basic pay + DA + CCa

Print a report with the Heading “Employee name Basic pay DA CCA Total pay” and display all records.

14. The following table contains monthly sales data for the 12 months of a year and for the 4 sales zones where each zone has 8 districts.

01 SALES-TABLE

05 SALE-ZONE occurs 4 Times

10 SALE-DISTRICT occur 8 Times

15 SALE-DATA DIC 9 (5) occurs 12 times.

- a) How is the sale value for the third zone, seventh district and fourth month referred to in the procedure division ?
  - b) What is the size of SALES-TABLE (in number of bytes) ?
15. Explain the COBOL constructs used for sorting a sequential file.
16. With the help of an example, explain how searching is performed on a TABLE.
17. What do you mean by modular programming ? What features of COBOL support this technique ?

UNIT – III

18. Explain the three level architecture of a data base system.
19. What are ER diagrams ? Illustrate with an example how they are used to design a database table.