

Computer Application Exam. 2013
B.A./B.Com./B.Sc.-(Part-II)

Scheme:

		Arts, Comm / Science	
		Min. Pass Marks	Max. Marks
		Theory: 47/54	Theory: 130/150
		Practical : 25/27	Practical : 70/75
Paper –I	3 hrs. Duration		65/75 Marks
Paper –II	3 hrs. Duration		65/75 Marks
Practical	4 hrs. Duration		70/75 Marks

Paper I : Database Management System

3 hrs. Duration

Max. Marks: 65(Arts/Comm.)/75(Science) Marks

Note: Total ten questions are to be set, taking two questions from each unit. Students are required to attempt five questions taking one question from each unit.

Unit – 1

Categorisation of DBMS system, Network, Hierarchical and relation database, Application of DBMS systems.

Relational data base management systems, Why to use them and where, Data Description language, Data manipulation Language and Data control Language.

Unit – 2

Introduction to DBASE, DBASE commands, Development of an application under DBASE, using forms, Screen and PRG files.

Security consideration in database management systems, Performance improvement in database.

Unit – 3

Relation database- advanced concept, Introduction to ORACLE or a similar RDBMS on a multi user environment.

Unit – 4

Introduction to Relation Algebra, Structure Query language, Form design an advanced RDBMS, Report generator query by example and Report by form. Accessing RDBMS using programming language, RDBM menu, RDBMS network.

Unit – 5

System management, User management, Security consideration.

Paper II : Structured Programming and Advanced Topics in Computers

3 hrs. Duration

Max. Marks: 65(Arts/Comm.)/75(Science) Marks

Note: Total ten questions are to be set, taking two questions from each unit. Students are required to attempt five questions taking one question from each unit.

Unit – 1

Introduction Need of structured Programming, Method of documentation, Methods of analysing a program requirements.

Unit – 2

Data flow diagrams. Entity relationship charts, Flow charts.

Unit – 3

Various categories of Programming language (3GL, 4GL, etc.) Introduction to C Program development in C using structured programming concepts

Unit – 4

Computer animation, Artificial intelligence, Dedicated computers ATMs Data encryption

Unit – 5

Data communication and networking (course to be modified every year to take care of the latest developments) Visits to computer industry.

PRACTICAL

Design of a databases for a business application, design data entry forms and reports layouts for this database. Creation of programs to access and manipulate database.

Development of application in RDBMS.

Development of application in C.

LIST OF HARDWARE AND SOFTWARES ITEMS Nos.

Hardware

PC AT 386 DX	2
33 Mhz. 16 MB RAM	
2 Serial, 2 Parellel Ports	
300 MD HDD, 1.2 MB FDD	
VGA card, Morichrome Monitor	
101 Keyboard	
PC At. 386 SX	

20 Mhz, 4 MB RAM,
2 Serial, 2 Parellel Ports
300 MBI-IHDD, 1.2 MB FDD
VGA Card, Monochrome Monitor

101 Keyboard

- Mouse
- Printers (300 Cps.9 pin)
- 5 KVA CVI
- Air Conditioner (1 ton)

Software

- Microsoft DOS 5.0/6.0
- Microsoft C 5/01 or latest version
- Lotus 1-2-3 latest Version
- DBAS 1:- IV Latest Version
- ORACLE 6.0/7.0 (DOS Version)
- Coral Draw
- Microsoft Window's
- Auto Cad/Auto Sketch Auto Animator

List of Books:

Sr. Title Authors and Publications

Book Group: Animation

1. Computer Animation
Management Thalmann, Spriger
Development of a business application in RDBMS
Development of a business application in C

List of Hardware and Software Items

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|-------------------------------|-----------------------------|
| - PC 386 Dx (2in Nos) | - 33 mhz 16MB RAM |
| - 2 Serial, 2 Parallel ports | - 300 MB HDD, 1.2 MB FDD |
| - VGA Card monochrome Monitor | - 101 Keyboard |
| - PC AT 3836 | - 20mhz., 4 MB RAM, |
| - 2 Serial, 2 Parellel Ports | - 101 Keyboard |
| - VGA Card monochrome Monitor | - Printers (300 Cps, 9 Pin) |
| - Mouse | - Air Conditioner (1 ton) |
| - 5 KVA CVI | |