

Annexure – 18

PERIYAR UNIVERSITY
SALEM – 636 011



PERIYAR INSTITUTE OF DISTANCE EDUCATION (PRIDE)

**DEGREE OF BACHELOR OF BUSINESS
ADMINISTRATION – HARDWARE**

(NON-SEMESTER SYSTEM)

REGULATIONS AND SYLLABUS

(Effective from the Academic Year 2007 – 2008)

**DEGREE OF BACHELOR OF BUSINESS
ADMINISTRATION – HARDWARE
(NON SEMESTER SYSTEM)**

**REGULATIONS AND SYLLABUS
(Effective from the Academic Year 2007 – 2008)**

I. ELIGIBILITY FOR ADMISSION

Candidates seeking admission to the first year degree of Bachelor of Business Administration – Banking shall be required to have passed the Higher Secondary Examination (Academic or Vocational Stream) conducted by the Government of Tamilnadu or an examination accepted as equivalent thereto by the syndicate, subject to such conditions as may be prescribed from time to time.

II. ELIGIBILITY FOR AWARD OF DEGREE

A candidate shall be eligible for the award of the degree only if he/she has undergone the prescribed course of study in Periyar Institute of Distance Education(PRIDE) for a period of not less than three academic years and passed the examinations prescribed and fulfilled such conditions as have been prescribed therefor.

3. COURSE OF STUDY

a) Objectives of the course:

- I.** To provide the basic and essential knowledge regarding various activities undertaken and necessary to run socially responsible business organization;

II. To impart certain basic skills and aptitude which will be useful in taking up any particular activity in a business;

III. To provide a global view of the several industrial and other organizations and their functions which support the business system;

IV. To develop the personality so as to become a responsible citizen with greater awareness about the Indian society and its culture.

b) The Course of study shall consist of languages and core subjects

PRIDE

BACHELOR OF BUSINESS ADMINISTRATION – HARDWARE

SCHEME OF EXAMINATIONS

| Paper | Subject | Duration | Marks |
|-------------------|--|-----------------|--------------|
| FIRST YEAR | | | |
| Language I | Tamil (or) any one of the Modern(Indian or Foreign) or classical languages | 3 hours | 100 |
| Language II | English | 3 hours | 100 |
| Core | Paper III Principles of Management | 3 hours | 100 |
| | Paper IV Business Mathematics and Statistics | 3 hours | 100 |
| | Paper V Digital Electronics | 3 hours | 100 |

| SECOND YEAR | | | |
|--------------------|---|---------|-----|
| Core | Paper VI Business Communication | 3 Hours | 100 |
| | Paper VII Financial And Management Accounting | 3 hours | 100 |
| | Paper VIII Computer Organization | 3 Hours | 100 |
| | Paper IX Operating System | 3 Hours | 100 |
| | Paper X Micro processor and interfacing Techniques | 3 Hours | 100 |
| THIRD YEAR | | | |
| Core | Paper XI Human resources Management | 3 Hours | 100 |
| | Paper XII Marketing Management | 3 Hours | 100 |
| | Paper XIII Computer Networks | 3 Hours | 100 |
| | Paper XIV PC Hardware: Trouble Shooting and maintenance | 3 Hours | 100 |
| | Paper XV Computer Security | 3 Hours | 100 |

**Note: I (i) Indian – Telugu, Kannada, Malayalam, Urdu and Hindi
(ii) Foreign – French iii) Classical – Sanskrit and Arabic**

4. PASSING MINIMUM

A candidate shall be declared to have passed in each paper if he/she secures not less than 40% of the marks prescribed for the examination. He/She shall be declared to have passed the whole examination if he/she passes in all the papers as per the scheme of examinations.

5. CLASSIFICATION OF SUCCESSFUL CANDIDATES

Successful candidates passing all the examinations securing the marks (i)60% and above and (ii) 50% and above but below 60% in the aggregate of the marks prescribed for Core subjects shall be declared to have passed the examination in **First class** and **Second class** respectively. All other successful candidates shall be declared to have passed in the examination in the **Third class**.

Candidates who obtained 75% of marks and above in any subject shall be deemed to have passed that subject with **Distinction** provided they passed the examination at the first appearance.

6. RANKING

Candidates who pass all the examinations prescribed for the course in the first appearance only are eligible for ranking.

PAPER- III
PRINCIPLES OF MANAGEMENT
(Core Subject)

UNIT – I

Management – Meaning and Definition – Management and Administration – Evolution of Management - Contributions of Henry Fayol, F.W. Taylor and Elton Mayo – Levels of Management – Is management a science or an Art or Profession? – Functions of Management.

UNIT – II

Planning : Objectives, Importance, Types, Advantages and Limitations. Methods of Planning: Objectives, Policies, Procedures, Strategies, Programmes, Budgets – Decision Making – Forecasting.

UNIT – III

Organising : Meaning, Objectives and principles of organization – Types of organization – Authority and Responsibility – Delegation – Departmentation – Decentralisation – Span of Management – Organisation chart and manual.

UNIT – IV

Directing – Meaning – Communication – Methods of Communication – Communication Barriers – Leadership – Types of Leaders – Qualities of a good leader – Motivation – Importance of motivation – Maslow’s Need Hierarchy and Herzberg’s two Factor Theory.

UNIT – V

Co-ordination: Concept – Principles – Need Controlling – Need for control – steps in control process – Features of a Good control system – Types of control – Control techniques – Traditional control techniques – Modern control techniques.

BOOKS RECOMMENDED

- ❖ Dinkar Pagare, Business Management, Sultan chand & Sons
- ❖ Prasad L.M, Principles and Practice of Management, Sultan chand & Sons
- ❖ Koontz and O'Donnel , Essentials of Management, Mc Graw Hill
- ❖ Tripathi P.C. Reddy P.N, Principles of Management, TMH

PAPER- IV
BUSINESS MATHEMATICS AND STATISTICS
(Core Subject)

UNIT-I

Series: Sequence – Series – Arithmetic Progression – Geometric Progression – Harmonic progression (simple problems only)

Matrices: Fundamental ideas and their operational rules – matrix addition and multiplication – Inverse of square matrices of not more than order third-solving simultaneous equations.

UNIT –II

Mathematics of Finance: Simple and compound interest-Annuity-Present value of Annuity –Sinking Fund – Percentages – Discounts.

UNIT-III

Descriptive statistics: Meaning and definition of statistics –Scope and Limitations-Diagrams and graphs-Measures of central tendency – Arithmetic Mean, Geometric Mean and Harmonic Mean – Median - Mode – Combined Mean.

UNIT-IV

Measures of variation-Absolute and relative measures –Range-Mean deviation – Quartile deviation –standard deviation.

Correlation: Scatter diagram-Karl Pearson's Co-efficient of correlation – Rank correlation co-efficient - Regression lines.

UNIT-V

Time series Analysis: Components of time series-Measures of trend-Free hand curve – Semi and moving average – Methods of least squares.

Index numbers: Definition –construction of index numbers-Weighted and un-weighted methods-fixed and chain index numbers-Test for index numbers –cost of living index number-Construction.

Note: Questions in theory and problems carry 30% and 70% of marks respectively.

BOOKS RECOMMENDED

- ❖ PR Vital, Business Mathematics and Statistics, Margham Publications.
- ❖ Dr. S.P. Gupta & Dr.M.P.Gupta, Business Statistics, Sultain & Chand Sons.
- ❖ RSN Pillai & V.Bagavathi, Statistics, S.Chand.

PAPER - V
DIGITAL ELECTRONICS
(Core Subject)

UNIT – 1

Number Systems and Codes: Introduction – Decimal System – Binary – Octal – Hexadecimal number systems 1's complement – 2's complement number system. Conversions and additions. Codes: BCD Codes

UNIT – II

Logic gates and Boolean Algebra: Basic Logic gates: OR –AND – NOT – NAND – NOR – EX – OR Gates (Two inputs and Three inputs). Universality of NAND and NOR. Boolean Algebra – Demorgan's theorem. Introduction about SOP and POS forms of Logical functions. Drawing of Karnaugh map – two variables and three variables (only fundamentals).

UNIT – III

Combinational Logic Circuits: Half adder – Full adder – Half sub tractor – Multiplexer – De multiplexer – Encoder – Decoder – Parallel binary adder.

UNIT – IV

Sequential Logic circuits: Flip-flops: RS flip flop – JK flip-flop and its truth table – master slave flip-flop.

Registers : Shift register – Parallel & serial shift registers

Counters : Binary counter, Decade counter

UNIT – V

D/A converter & A/D converter: D/A Converter-Block diagram and its function-Binary Ladder type - A/D Converter-Ramp type, dual slop, type, successive approximation type.

BOOKS RECOMMENDED

- ❖ Albert Paul Malvino and Donald P. Leach, Digital Principles & Applications, Tata McGraw Hill Co.
- ❖ R.P.Jain, Modern Digital Electronics, Tata McGraw Hill Co.
- ❖ Dr.B.N.Chatterji, Digital Computer Technology, Kanna Publishers, Delhi.

PAPER - VI
BUSINESS COMMUNICATION
(Core Subject)

UNIT – I

Communication - meaning - objectives - Types - Principles of communication -
Layout of Business Letters.

UNIT – II

Business Enquiries and replies - Offer - Quotations - Orders -Complaints and
Adjustments - Collection letters - Circular letters - Status enquiries.

UNIT – III

Bank - correspondence - Insurance correspondence - Agency correspondence -
Letters to the Editor - Application for appointment.

UNIT - IV

Company correspondence - Secretary and his duties – Correspondence with
Directors, Shareholders, Government Departments and others.

UNIT - V

Report writing - Meaning - Importance - Characteristics good report - Report by
individuals - Report by committees - Precise Writing-Passages relating to
business and management.

PAPER - VII
FINANCIAL AND MANAGEMENT ACCOUNTING
(Core Subject)

UNIT – I

Basic Accounting concepts and convention - Accounting Equations -Meaning of accounting - Groups interested in accounting information - Journal, Ledger, Subsidiary books - Trial balance - Final accounts (Simple problems only).

UNIT – II

Management Accounting: Meaning - objectives - Advantages -Limitations - Management Accounting Vs Financial Accounting - Management Accounting Vs cost Accounting - Accounting Ratios: Meaning - Types - Calculation of Ratios (simple problems only without construction of balance sheet).

UNIT – III

Fund Flow Analysis: Preparation of schedule of changes in working capital and fund flow statement. Cash Flow Analysis: Preparation of cash flow statement - Distinction between cash and Fund.

UNIT – IV

Budget and Budgetary control: Meaning - Types - Materials and Production budget - flexible budget - cash budget - sales budget.

UNIT – V

Marginal Costing: Meaning - PV Ratio - B.E.P. - Preliminary Applications in Business. Standard Costing: Meaning - Objectives - Calculation of Material Variances Only.

Note: Questions in Theory & Problems carry 30% and 70% of marks respectively.

BOOKS RECOMMENDED

- ❖ Dr. P. Periyasamy, Financial, Cost and Management Accounting, Himalaya Publications.
- ❖ Man Mohan and Goyal, S.N, Principles of Management Accounting, Sathya Bhavan.
- ❖ R.K.Sharma, Shasi Gupta, Management Accounting, Kalyani Publishers.
- ❖ Ramachandran, Srinivasan, Management Accounting, Sriram Publications.
- ❖ T.S.Reddy A.Murthy, Financial Accounting, Margham publications.
- ❖ R.S.N.Pillai & Bagavathi, Management Accounting. S.Chand.
- ❖ Maheswari, S.N.,Principles of Management Accounting, Sultan Chand & Sons.

PAPER - VIII
COMPUTER ORGANISATION
(Core Subject)

UNIT - I

Basic Computer Units : their functions - input and output units – control, arithmetic and logical units - programming languages - compiler, interpreter and operating system.

UNIT - II

Central Processing Unit : General Register organisations - stack organisations / instructions - formats, addressing modes, data transfer, program control.

UNIT - III

ALU : Adder, serial adder, parallel adder - addition and subtraction algorithm - multiplication and division algorithm - complement arithmetic operations.

UNIT - IV

Instruction Codes : Computer Registers – Computer instructions - instruction cycle - memory reference - instructions - I/O and interrupt.

UNIT - V

Memory Unit : memory hierarchy - main memory, auxiliary memory - associate memory - virtual memory - cache memory,

BOOK RECOMMENDED

Computer system Architecture - M. Morris Mano Prentice Hall of India Pvt Ltd, New Delhi, Third Indian Reprint 2007.

PAPER - IX
OPERATING SYSTEM
(Core Subject)

UNIT - I

Introduction to Operating System - Operating system history - Functions of operating system - Hardware - Software - Different types of software in use - Firmware.

UNIT - II

Process concept - types - asynchronous - concurrent - pipeline process. Deadlock reasons - Real storage management - Virtual storage management.

UNIT - III

Job and processor scheduling - Sequential and parallel architecture - vector processing - array processing - data flow- Multiprocessor and Multitasking - Fault tolerance.

UNIT - IV

Auxiliary storage organization and management - Hard disk utilization and performance – File management in operating system – File Analysis Table (F.A.T) – different file operation system – Bootable utilities.

UNIT - V

Operating system security - Case studies - Unix - Special features of shell programming DOS - advantages - Windows - features - advantages.

BOOK RECOMMENDED

Operating System – Author - H.M. Deitel Addison, Wesley Publishing company.

PAPER - X
8085 MICRO PROCESSOR AND INTERFACING TECHNIQUES
(Core Subject)

UNIT - I

Microprocessor Architecture : Introduction - INTEL 8085: ALU, timing and control unit - Registers - Data and Address bus - PIN configuration - INTEL 8085 instructions - OP CODE and operands - Instruction word size - instruction cycle - Fetch operation - Execute Operation - machine cycle and state.

UNIT - II

Instruction Set of 8085 : Introduction - instruction and Data Formats - Addressing modes: Direct -register indirect - Immediate and Implicit - status flags - INTEL 8085 - instruction: Data transfer. Arithmetic, Logical, Branch and stack I/O and machine controls.

UNIT - III

Programming of Microprocessor : Introduction - Assembly language - High level language - Examples of Assembly language programming: simple examples: - Addition, Subtraction - one's complement of an 8 bit number - 8 bit multiplication - 8 bit division.

UNIT IV

Peripheral Devices and their Interfacing : Introduction - Address space partitioning: memory and I/O interfacing / Data Transfer schemes - Interrupts of INTEL 8085: - Hardware and Software interrupts -Interrupts call locations - RST 7.5, 6.5 and 5.5.

UNIT - V

Interfacing Devices and I/O Devices : Generation of control signals for memory and I/O devices - I/O parts: - programmable peripheral interface (PPI) - programmable DMA controller.

BOOKS RECOMMENDED

- ❖ B Ram, Fundamentals of Microprocessors and microcomputers, Dhanpati Rai publications. New Delhi.
- ❖ A.P. Mathur, Introduction to Microprocessors, Ramesh. S. Gaonkar, Microprocessor Architecture Programming & Applications with 8085/8085, Wisely Eastern Ltd.

PAPER - XI
HUMAN RESOURCE MANAGEMENT
(Core Subject)

UNIT - I

Introduction – Meaning and Definition, Nature, Scope, Objectives and Importance of HRM – Functions of HRM.

UNIT - II

Human Resource Planning – Manpower planning – Nature, Importance and Objectives of Manpower Planning – Process of Manpower Planning – Uses and Benefits of Manpower Planning.

UNIT - III

Recruitment and Selection – Source of Recruitment – Selection of Employees – differences recruitment and selection – Procedures for selection – Tests – Interview – Types of Interview – Process of conducting interview – checking of references – Final selection.

UNIT - IV

Training and Development : Importance of training of employees – Types of training – Methods of training – Management development : Importance of Management development – Objectives and Methods.

UNIT – V

Promotion, Transfer and Termination – Career planning, promotion policy – Internal promotional system – Seniority vs Merit – Benefits of effective promotion policy – Criteria for a sound promotion policy – Transfer objectives and types of transfer – employees termination – Dismissal.

BOOKS RECOMMENDED

- ❖ S.S.Khanka, Human Resources management, S.Chand co. Ltd.,
- ❖ G.R.Basotia, Human Resources Management, Mangal Deep Publications.
- ❖ K.Aswathappa, Human Resources And Personnel Management TMH, New Delhi.
- ❖ Kaushal Kuman, Human Resources Management – ABD Publishers.
- ❖ Keith Davis, Human Relations at work – TMH.
- ❖ C.B.Mamoria, Personnel Management – Himalaya publications House.
- ❖ R.S.N.Pillai & Bagavathi, Management Accounting. S.Chand.
- ❖ J.Jayasanker, Human Resources management, Margham Publications.

PAPER - XII
MARKETING MANAGEMENT
(Core Subject)

UNIT - I

Marketing – Definition – Scope – Functions – Importance – Concepts of Marketing – Marketing Environment – Marketing of Services – Service Marketing Environment.

UNIT - II

Market segmentation – Bases – Pre – requisites – Consumer Behaviour – Factors – Stages in Buying Decision Process.

UNIT - III

Marketing Mix – Elements – Product mix – Meaning – Classification of Product – Development of new product – Product life Cycle – Pricing Policies and Strategies.

UNIT - IV

Channels of Distribution – Factors – Kinds of middle man – Promotional Mix – Advantages – Personal Selling – Sales Promotion – Publicity.

UNIT – V

Marketing Research – Meaning – Scope – Research Design – Recent trends in Marketing – E – Business – Telemarketing – Relationship marketing – Virtual advertising.

BOOKS RECOMMENDED

- ❖ Rajan Nair.N, Marketing Management, Sultand Chand & Sons.
- ❖ Philip Kotler, Marketing Management Millennium Edition, PHI.
- ❖ Ramasamy V.S and Namakumary.S, Handbook of Marketing Management, Macmillan.
- ❖ Rajagopal, Marketing Management, Vikas Publishing House Pvt. Ltd.,
- ❖ S.Jayachandran, Marketing Management, Excel Books.
- ❖ Rajan Saxena, Marketing Management, TMH.
- ❖ Sherlakar S.A, Marketing Management, HPH.
- ❖ R.S.N. Pillai Marketing Management, S.chand.
- ❖ Jha.S.M, Services Marketing, HPH.

PAPER - XIII
COMPUTER NETWORKS
(Core Subject)

UNIT - I

Networking introduction – Categories of network – Protocols - Topology – Type of Topology – Signals – Type of signal - Transmission mode – Transmission Media – Type of Transmission media – Guided and Unguided media.

UNIT - II

Encoding – Multiplexing – Transmission DTE – DLE interface – Modems – Types of modems – Error detection and correction – Line discipline – Flow control – Error control – Local Area networks – Ethernet.

UNIT - III

Switching – Circuit switching – Packet switching – Message switching – Connection oriented and connectionless service – Integrated Service Digital Network – Applications of ISDN.

UNIT - IV

Networking and Internet working devices – Repeaters – Bridges – Route – Gateways – Other network devices – Internet – History – Meaning – Advantages – Intranet – www.com.

UNIT - V

Internet protocols – TCP/IP protocols – Domain Name System – File Transfer Protocol – TELNET – Simple Mail Transfer Protocols – HTTP – HTML usage – Web Browser – Common Gateway Interface.

BOOK RECOMMENDED

- ❖ Data communication and networking 2nd Edition : Behrouz A. Forouzan
Tata Mcgraw Hill.

PAPER - XIV

PC HARDWARE : TROUBLE SHOOTING AND MAINTENANCE

(Core Subject)

UNIT - I

PC Revealed : History of Computers, Identifying the Major Components of a PC – Identifying the Internal Components of PC. CPU : Function of the CPU – Identifying the Right CPU for any Motherboard – Installing and Upgrading CPUs – Select and Install the Proper Heat Sink and Fan Assembly. RAM : Types of RAM – RAM Packages – Adding and Upgrading RAM.

UNIT - II

Motherboards and BIOS : Common Motherboard Features – Types of Motherboards – Installing a Motherboard – The System BIOS. Expansion Buses: Internal Buses – Installing a Plug and Play Expansion Card – External Expansion Buses.

UNIT - III

Power Supply : Power Supply – Cooling Removable Media : Identifying Installing and Troubleshooting Floppy Drives – Identifying and Installing zip Drives and Super Disk Drives. Hard Drives : Geometry – Partitions and File Systems – Installing a Hard Drive – Configuring a Hard Drive – Hard Drive Maintenance and Troubleshooting.

UNIT - IV

CD Media : Understanding CD Media Technologies – Installing CD Media Drives – CD Media Troubleshooting. Input Devices : Installing a Keyboard – Installing and Configuring a Mouse – Identifying the Common Input Devices – Maintaining and Troubleshooting Input Devices. Printers : Current Printer Technologies – Installing a Printer on a Windows PC Performing Basic Printer Maintenance – Recognizing and Fixing Basic Printing Problems.

UNIT – V

Networks : Dial – up Networks – Local Area Networks – Installing and Configuring a Dial – up Networks – Installing and Configuring a Local Area Network – Trouble Shooting Basic Network Problems.

BOOKS RECOMMENDED

- ❖ Mike Meyers, Introduction to PC Hardware and Troubleshooting, Tata Mc Graw – Hill Edition, 2003.
- ❖ Craig Zacker, John Rourke, PC Hardware, Tata Mc Graw – Hill publishing Co. Ltd., New Delhi.
- ❖ Sanjay kbose, Hardware and software of PC, New age International publishing (P) Ltd. New Delhi 1999.

PAPER - XV
COMPUTER SECURITY
(Core Subject)

UNIT - I

Introduction : Secure – Protecting Valuables – Attacks – Meaning of Computer Security – Computer Criminals – Methods of Defense, Protection in General Purpose Operating System : Memory and Address Protection – Control of Access of General Objects of File Protection Mechanisms – User Authentication.

UNIT - II

Cryptography : Terminology and Background – Substitution Cipher – Transpositions – Encryption Algorithms – The Data Encryption Standard – The AES Encryption Algorithm – Public Key Encryption – The Sues of Encryption.

UNIT - III

Program Security : Secure Programs – Nonmalicious Program Errors – Viruses and Other Malicious Code – Targeted Malicious Code – Controls against program threats.

UNIT - IV

Introduction to Database – Security Requirements – Reliability and Integrity – Sensitive Data – Inference – Multilevel Databases – Proposals for Multilevel Security.

UNIT – V

Security in Networks : Network Concepts – Threats in Networks – Network Security Controls.

BOOKS RECOMMENDED

- ❖ Charles P. Pfleeger, Shari Lawrence Pfleeger “Security in computing” 3rd Edition Pearson Education 2003.
- ❖ Arthur Comklin WM, Principles of Computer Security, Dremtech press – New Delhi, 2004.
- ❖ Matt Bishop, Computer Security, Pearson education (Singapore) P Ltd., Delhi – 110 092.
- ❖ Matt Bishop, Sathyanarayana A Venkatramanayya, Introduction to Computer Security, Pearson Education (Singapore) P Ltd., Delhi – 110 0923.

BBA – HARDWARE
MODEL QUESTION PAPER
PRINCIPLES OF MANAGEMENT
(CORE SUBJECT)
PAPER III

Time: 3 Hours

Maximum: 100 marks

PART – A (10 x 2 = 20 marks)

Answer all questions

Answer to each question shall not exceed six lines

1. What is Management?
2. State the three levels of management.
3. What is planning?
4. What is policy?
5. What do you mean by an organization?
6. What is an organization chart?
7. Who is a leader?
8. Define communication.
9. What is control?
10. Mention the types of control.

PART – B (5 x 4 = 20 marks)

Answer all questions

Answer to each question shall not exceed two pages

11. (a) Differentiate between management and administration.
(or)
(b) What are the steps in the process of management?
- 12 (a) What are the different kinds of policies?
(or)
(b) What are the characteristics of planning?
13. (a) What is departmentation?
(or)
(b) What are the sources of authority?
14. (a) What are the qualities of a good leader?
(or)
(b) Explain grapevine communication.
15. (a) Explain the elements of control.
(or)
(b) Explain PERT.

PART – C (5 x 12 = 60 marks)

Answer all questions

Answer to each question shall not exceed five pages

16. (a) Explain the principles of management
(or)
(b) Explain the contribution of F.W.Taylor on management thought.
17. (a) Explain the process of decision making.
(or)
(b) Explain the process of management by objectives.
18. (a) Explain the principles of a good organization.
(or)
(b) Explain the factors that determine span of management.
19. (a) what are the barriers to communication? Explain.
(or)
(b) Explain Maslow's need theory of motivation
20. (a) Define control. Discuss the steps involved in control process.
(or)
(b) Explain the traditional control techniques.

BBA – HARDWARE
MODEL QUESTION PAPER
BUSINESS MATHEMATICS AND STATISTICS
(CORE SUBJECT)
PAPER IV

Time: 3 Hours

Maximum: 100 Marks

PART A (10 X 2 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed six lines

1. Where do we apply arithmetic progression?
2. Define Scalar and identity matrix.
3. Distinguish between simple interest and compound interest.
4. A certain sum deposited in a bank at 15% p.a compounded monthly accounts to Rs.42143.63 at the end of 5 years. Find the principal.
5. Define statistics.
6. State the uses of geometric mean.
7. Define range, mean deviation.
8. What do you mean by scatter diagram?
9. What are the methods to estimate seasonal variations?
10. What are the components of time series?

PART B (5 X 4 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed two pages

11. (a) In a G.P, the sum is 224, the last term is 128 and the common ratio is
2. Find the first term and the number of terms.

(or)

(b) If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ $B = \begin{bmatrix} 1 & 0 \\ 2 & -3 \end{bmatrix}$ and $C = \begin{bmatrix} 1 & -1 \\ 0 & 1 \end{bmatrix}$

Show that $A(B+C) = AB + AC$

12. (a) What are the different types of annuities?

(or)

- (b) Find the sum of money that yields a compounded interest of Rs.432 at 8% per annum during the second year?

13. (a) Calculate the mean number of persons per house gives.

| | | | | | | |
|--------------------------|----|----|----|----|----|-------|
| No. of persons per house | 2 | 3 | 4 | 5 | 6 | Total |
| No. of Houses | 10 | 25 | 30 | 25 | 10 | 100 |

(or)

- (b) Find the Harmonic Mean for the following individual data:
6,15,35,40,900,520,300,400,1800,2000.

14. (a) Calculate range and its co-efficient from the following distribution:

| | | | | | |
|--------|-------|-------|-------|-------|-------|
| Size | 60-62 | 63-65 | 66-68 | 69-71 | 72-74 |
| Number | 5 | 18 | 42 | 27 | 8 |

(or)

(b) Calculate mean deviation about mean for the numbers; 1, 2, 3, 4, 5

15. (a) Below are given the annual consumption in thousands tonnes of a town:

| | | | | | | | |
|-------------|------|------|------|------|------|------|------|
| Year | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
| Consumption | 70 | 75 | 90 | 91 | 95 | 98 | 100 |

Fit a trend line using semi average method.

(or)

(b) Explain the problems faced while constructing index numbers.

PART C (5 X 12 = 60 Marks)

Answer all Questions.

Answer to each question shall not exceed five pages

16. (a) i. Find 3 numbers in A.P whose sum is 24 and product is 440.
ii If 4th & 8th terms of a G.P are 24 & 384 respectively. Find a and r.

(or)

- (b) Solve the using system of equations by matrix method.

$$3X + 4Y + 5Z = 18$$

$$2 - Y + 8 = 13$$

$$5 - 2Y + 7Z = 20$$

17. (a) A person has two daughters A & N aged 13 & 16 years. He has Rs.40,000 with him now but wants that both of them should get an equal amount when they are 20 years old. How he should divide the money if it were to be deposited in a bank giving 9% compound interest per annum?

(or)

- (b) i. The Banker's discount is 51 times the banker's gain. Find the term of the bill, if interest is 8% per annum. ii. True discount on a bill due after 7 months at 12% per annum is Rs.175. Find its face value.

18. (a) i. Explain the types of diagrams.
ii. What are the advantages & disadvantages of diagrams & graphs.

(or)

- (b) Calculate mean, Median, & mode for the following

| | | | | | |
|----------------|-----|-----|-----|-----|-----|
| Income (above) | 100 | 200 | 300 | 400 | 500 |
| No. of persons | 20 | 24 | 32 | 39 | 45 |

16. (a) Calculate mean deviations about mean for the following. Also find its co-efficient.

| | | | | | |
|---|-------|-------|-------|-------|-------|
| X | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 |
| Y | 7 | 9 | 5 | 4 | 11 |

(or)

(b) Calculate correlation

| | | | | | | | | | | |
|---|----|----|----|----|----|----|----|----|----|----|
| X | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| y | 12 | 11 | 16 | 19 | 25 | 24 | 12 | 10 | 9 | 32 |

20 (a) Fit a trend in using 3 yearly moving averages.

| | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Year | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
| Production | 14 | 17 | 22 | 28 | 26 | 18 | 20 | 24 | 25 | 29 | 30 | 23 |

(or)

(b) Compute Fisher's Index number and test time reversal & factor reversal test for the following.

| Commodity | Base Year | | Current year | |
|-----------|-----------|-----|--------------|-----|
| | P | V | P | V |
| A | 10 | 200 | 12 | 300 |
| B | 8 | 108 | 10 | 220 |
| C | 20 | 160 | 25 | 250 |
| D | 18 | 144 | 20 | 140 |
| E | 25 | 280 | 30 | 300 |

**BBA – HARDWARE
MODEL QUESTION PAPER
DIGITAL ELECTRONICS
(CORE SUBJECT)
PAPER V**

Maximum: 100 marks

Time: 3 Hours

Part A (10 x 2 = 20 marks)

Answer all questions

Answer to each question shall not exceed six lines

1. What is the decimal value of binary 001?
2. What is the base for Hexadecimal number?
3. Draw the logic symbol for EX-OR gate
4. Give the truth table for NOT gate
5. What is multiplexer?
6. What is the function of encoder?
7. Draw the RS flip flop symbol.
8. What is the advantage of master slave flip flop?
9. Define resolution of D/A converter
10. Mention any two applications of Dual slop A/D converter

Part B (5 x 4 = 20 marks)

Answer all questions

Answer to each question shall not exceed two pages

11. (a) Briefly explain how will you convert decimal to binary?
(or)
(b) Write a short note on alphanumeric code.
12. (a) Draw and explain the functions of two input gate
(or)
(b) Briefly explain about two variables Karnaugh map
13. (a) Explain the function of Half adder circuit.
(or)
(b) Briefly explain about half subtractor.
14. (a) Explain the J.K.flip flop.
(or)
(b) Explain the J.R.flipflop.
15. (a) Explain a short note on D/A converter
(or)
(b) Explain accuracy, resolution of A/D converter.

Part C (5 x 12 = 60 marks)

Answer all questions

Answer to each question shall not exceed five pages

16. (a) Convert the given binary number 1110, 0110 into octal, Hexadecimal
(or)
(b) Explain (i) BCD codes (ii) EX-3 codes
17. (a) Prove that NAND gate as universal gate.
(or)
(b) State and explain the De Morgan's theorem.
18. (a) Explain in detail about the De multiplexer with truth table.
(or)
(b) Explain the function of Parallel binary adder circuit.
19. (a) Explain the functions of 3 bit shift register.
(or)
(b) Explain the functions of Binary counter.
20. (a) With a neat diagram, explain the functions of Ramp type
D/A converter.
(or)
(b) With a neat circuit diagram, explain the functions of 3 bit ladder type
D/A converter.

BBA - HARDWARE
MODEL QUESTION PAPER
BUSINESS COMMUNICATION
(CORE SUBJECT)
PAPER VI

Time: 3 Hours

Maximum: 100 marks

PART A (10 x 2 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed six lines.

1. What is communication?
2. Mention the process of communication.
3. What is enquiry?
4. Define Bank correspondence
5. What is insurance correspondence?
6. Write the needs of the circular letter.
7. Write any two duties of a company secretary.
8. Mention the types of company correspondence.
9. Define report.
10. What is precise writing?

PART - B (5 x 4 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed two pages

11. (a) Write the principles of communication .
(or)
(b) Write the objectives of communication.
12. (a) Write an enquiry letter about the product of your choice.
(or)
(b) Write a letter to the bank for opening a SB account.
13. (a) Write a letter of asking the status of the customer.
(or)
(b) What are the various forms of insurance letters?
14. (a) What do you mean by minutes? Tell its components.
(or)
(b) What is Agenda? Give the format.
15. (a) Give the various steps in precise writing.
(or)
(b) Give the specimen individual report.

PART C (5 X 12 = 60 Marks)

Answer all Questions.

Answer to Each Question shall not Exceed Five Pages

16. (a) Discuss the layout of business letters .
(or)
(b) Write the types of business communication.
17. (a) Write a series of collection letters.
(or)
(b) Place a purchase order for your company.
18. (a) Write a letter to a banker for overdraft facility and its favourable reply.
(or)
(b) Write an application along with CV for the post of Personnel officer in a leading automobile unit.
19. (a) Write the pivotal roles of a company secretary.
(or)
(b) Give the specimen director's speech & its scope.
20. (a) Write the various kinds of reports.
(or)
(b) Bring out the layout of a report.

**B.B.A HARDWARE
MODEL QUESTION PAPER
FINANCIAL AND MANAGEMENT ACCOUNTING
(CORE SUBJECT)
PAPER -VII**

Time: 3 Hours

Maximum: 100 marks

PART A (10 x 2 = 20 Marks)

(Answer all Questions.

Answer to each question shall not exceed six lines)

1. What is meant by trial balance?
2. What is meant by subsidiary books?
3. Define management Accounting.
4. List out the limitations of management accounting.
5. Define funds flow statement.
6. What is cash flow statement?
7. What do you mean by budgetary control?
8. Define Zero base budget.
9. Define material variance.
10. Define the term 'standard costing'.

PART B (5 x 4 = 20 Marks)

Answer all Questions.

11. (a) Enter the following transactions into journal.

| Jan 2000 | Rs. |
|---------------------------------------|--------|
| 1. Harsha commenced business with | 200000 |
| 2. Purchase furniture | 20000 |
| 3. Purchase goods for cash | 10000 |
| 4. Bought goods on credit from Ranjit | 30000 |
| 8. Sold goods for cash | 30000 |
| 10. Sold goods on credit to Ram | 45000 |
| 12. Cash paid to Ranjit | 25000 |
| 14. Ram returned damaged goods | 1000 |
| 25. Salaries paid | 3000 |
| 30. Rent paid | 2000 |

(or)

(b) From the following trial balance of Mani & Co., prepare trading and profit and loss account for the year ending 30th June, 1992 and a balance sheet as at that date:

| Particulars | Dr. Rs. | Cr. Rs. |
|------------------------|---------|---------|
| Opening Stock | 750 | - |
| Purchases | 1490 | - |
| Return inwards | 40 | - |
| Duty on imported goods | 260 | - |
| Carriage on purchases | 140 | - |
| Carriage on sales | 200 | - |
| Office salaries | 240 | - |
| Drawings | 400 | - |
| Rent paid | 180 | - |
| General Expenses | 150 | - |

| | | |
|-------------------|------|------|
| Bank Balance | 300 | - |
| Cash | 100 | - |
| Sundry Debtors | 1000 | - |
| Building | 2000 | - |
| Machinery | 1000 | - |
| B/R | 250 | - |
| Depreciation | 200 | - |
| Horses & Carts | 150 | - |
| Interest | 90 | - |
| Discount allowed | 10 | - |
| Capital | - | 2625 |
| Return outward | - | 45 |
| Sales | - | 3810 |
| Commission earned | - | 200 |
| B/P | - | 1500 |
| Sundry creditors | - | 770 |

Stock in hand 30th June, 1992 Rs.985. Rent due but not paid Rs.30.

12. (a) What are the objectives of management accounting?

(or)

(b) Following are the ratios to the trading activities of a company:

Debtor's velocity : 3 months

Stock velocity : 8 months

Creditor's velocity : 2 months

Gross profit ratio : 25%

Gross profit for the year ended 31.12.98 Rs.400000. Closing stock of the year is Rs. 10,000 above the opening stock. Bills receivable Rs.25,000. Bills Payable Rs. 10,000/- Find out Sales and sundry debtors.

13. (a) From the following balances, you are required to calculate cash from operations:

| Particulars | 31.12.1997 | 31.12.1998 |
|----------------------------|------------|------------|
| Debtors | 50000 | 47000 |
| Bills Receivables | 10000 | 12500 |
| Creditors | 20000 | 25000 |
| Bills Payable | 8000 | 6000 |
| Expenses outstanding | 1000 | 1200 |
| Expenses Prepaid | 800 | 700 |
| Accrued income | 600 | 750 |
| Income received in advance | 300 | 250 |

Net profit for the year is Rs 1, 30,000.

(or)

(b) The financial position of M/s. Tall and short on 1st January, 1999 and December 31, 1999 was as follows:

| Liabilities | 01.01.1999 | 31.12.1999 | Assets | 01.01.1999 | 31.12.1999 |
|------------------------------|---------------|---------------|-------------|---------------|---------------|
| Sundry creditors | 12000 | 8100 | Cash | 9900 | 22800 |
| Provision for taxation | 24000 | 27000 | Debtors | 30000 | 33300 |
| Provision for doubtful debts | 600 | 900 | Stock | 45000 | 35100 |
| Loan | 1800 | 1200 | Investments | 15000 | 16500 |
| Equity share capital | 150000 | 150000 | Land | 60000 | 54000 |
| General reserve | 26000 | 27000 | Building | 55500 | 54000 |
| Profit and loss a/c | | | Goodwill | 18000 | 18000 |
| Total | 19000 | 19500 | | | |
| | 233400 | 233700 | | 233400 | 233700 |

Calculate the changes in working capital.

14. (a) The following figures relating to product ' duper' for the quarter ending 31.3.99 are available:

Budgeted Sales: January - 3,00,000 units
 February – 2,40,000 units
 March - 3,60,000 units

Stock Position: 1.1.99 - 50% of January's budgeted sales
 31.3.99 - 80000 units
 31.1.99 - 40% of February's budgeted sales
 28.2.99 - 60% of March's budgeted sales

You are required to prepare a production budget for the quarter ending 31.3.99

(or)

(b) A company produces and sells three items: (a) Snow cream, (b) Talcum Powder and (c) Cold Cream. The actual figures for the previous year sales were as under:

| Particulars | Units | Unit Price (Rs) |
|--------------------|--------------|------------------------|
| Snow Cream | 4,00,000 | 12 |
| Talcum Powder | 2,50,000 | 15 |
| Cold Cream | 3,00,000 | 16 |

For the current year i.e. 2004, it is estimated that sale of snow cream will go up by 10%, talcum powder are to be increased by 20%. You are required to prepare sales budget for sales in the current year.

15. (a) The standard cost of a chemical mixture is as under:

8 tons of material A at Rs.40 per ton
 12 tons of material B at Rs.60 per ton
 Standard yield is 90% of input.

The actual cost for a period is as under:

10 tons of material A at Rs.30 per ton

20 tons of material B at Rs.68 per ton

Actual yield is 26.5tons.

Compute material variances.

(or)

(b) From the following information, calculate / PV ratio and break – even point.

| | | |
|------------------------|---|--------------|
| Total sales | : | Rs. 3,60,000 |
| Selling price per unit | : | Rs. 100 |
| Variable cost per unit | : | Rs. 50 |
| Fixed cost | : | Rs .1,00,000 |

PART C (5 x 12 = 60 MARKS)

Answer all Questions.

16. (a) From the following Trial Balance of Mr. Kavi, prepare Final Accounts for the year ended 31.12.2005.

| Particulars | Dr. Rs. | Cr. Rs. |
|--------------------|----------------|----------------|
| Land & Building | 50000 | - |
| Purchases | 110000 | - |
| Stock | 40000 | - |
| Returns | 1500 | 2500 |
| Wages | 10000 | - |
| Salaries | 9000 | - |
| Office Expenses | 2400 | - |
| Carriage | 3200 | - |
| Discounts | 750 | 1200 |
| Bad debts | 1200 | - |
| Insurance | 1500 | - |
| Machinery | 50000 | - |
| Furniture | 10000 | - |
| Debtors | 40000 | - |
| Cash | 26000 | - |
| Office Equipment | 12000 | - |
| Sales | - | 205000 |
| Capital | - | 115000 |
| Loan | - | 15000 |
| Commission | - | 1500 |
| Creditors | - | 25000 |
| Bills Payable | - | 2350 |
| Total | 367550 | 367550 |

Adjustments

- a. Closing Stock -Rs.60,000.
- b. Outstanding Wages - Rs.2,000 and Rent Rs.3,000.
- c. Depreciate Land & Building at 5%, Machinery at 10%, office equipment and furniture of 10%.
- d. Provide reserve at 2.5% on debtors.
- e. Insurance prepaid Rs.200.
- f. Calculate interest on capital at 5%.

(or)

- (b) Explain the accounting concepts.

17. (a) What are the advantages and limitation of management accounting?

(or)

(b) Perfect limited gives the following balance sheet. You are required to compute the following ratios

- i. Liquid ratio
- ii. Debt equity ratio
- iii. Solvency ratio
- iv. Stock-working capital ratio

| Liabilities | Rs. | Assets | Rs. |
|----------------------|---------------|---------------|---------------|
| Equity Share Capital | 1500000 | Fixed Assets | 1400000 |
| Reserves and Surplus | 100000 | Stock | 500000 |
| 6% Debentures | 300000 | Debtors | 200000 |
| Overdraft | 100000 | Cash | 100000 |
| Creditors | 200000 | | |
| | 2 | | 2 |
| | 200000 | | 200000 |

18. (a) The financial position of M/s. Tall and short on 1st January, 1999 and December 31, 1999 was as follows:

| Liabilities | 1.1.99 | 31.12.99 | Assets | 1.1.99 | 31.12.99 |
|---------------------|--------------------|--------------------|---------------|--------------------|--------------------|
| Current Liabilities | 36000 | 41000 | Cash | 4000 | 3600 |
| Mrs. Tall's Loan | - | 20000 | Debtors | 35000 | 38400 |
| Loan from Bank | 30000 | 25000 | Stock | 25000 | 22000 |
| Capital | 148000 | 149000 | Land | 20000 | 30000 |
| | | | Building | 50000 | 55000 |
| | | | Machinery | 80000 | 86000 |
| Total | 21 4000 | 235 000 | | 21 4000 | 235 000 |

During the year the partners withdrew Rs.26,000 for domestic expenses. The provision for depreciation against machinery as on 1.1.99 was Rs.27,000 and on 31.12.99 Rs.36,000. Prepare the cash flow statement for the year ended 31.12.1999.

(or)

(b) The following is the comparative balance sheets of Prathima & Co limited as on 30th June 1997 and 30th June 1998.

| Liabilities | 30.06.1997 | 30.06.1998 | Assets | 30.06.1997 | 30.06.1998 |
|--------------------|-------------------|-------------------|---------------|-------------------|-------------------|
| Share Capital | 180000 | 200000 | Goodwill | 24000 | 20000 |
| Reserve | | 36000 | Buildings | 80000 | 72000 |
| Fund | 28000 | 24000 | Machinery | 74000 | 72000 |
| P& L | | 10800 | Investments | 20000 | 22000 |
| account | 39000 | 2600 | Inventories | 60000 | 50800 |
| Trade | | 34000 | Debtors | 40000 | 44400 |
| Creditors | 16000 | - | Cash | 13200 | 30400 |
| Bank OD | 12400 | - | | | |
| Provision for | | 4200 | | | |
| Taxation | 32000 | - | | | |
| Provision for | | | | | |
| Doubtful | - | | | | |
| Debts | 3800 | | | | |
| | 311200 | 311600 | | 311200 | 311600 |

Additional Information

- Depreciation on Machinery Rs, 10000 and on Buildings Rs. 8,000.
- Investments sold during the year Rs.,3000
- Rs. 15000 interim dividend paid during January 1998.
- Taxes paid during the year 30000.

Prepare

- a. Statement of changes in working capital
- b. Funds flow Statements.

19. (a) The following information has been made available from the accounting records of Precision Tools Limited for the last six months of 1995 (and only the sales for Jan.1996) in respect of fishplate x is produced by it

- (i) The units to be sold in different months are: July-2200; August - 2200; September- 400; October-3800; November-5000; December-4600; January-4000.
- (ii) There will be no work-in-progress at the end of any month.
- (iii) Finished units equal to half the sales for the next month will be in stock at the end of every month (including June '95)
- (iv) Budgeted production and production costs for the year ending December 1995 are as thus: Production in units-44000; direct materials per unit Rs.10/-; direct wages per unit Rs.4/-; total factory overheads apportioned to product Rs.88000.

It is required to prepare: production budget for the last six months of 1995 and production cost budget for the same period.

(or)

(b) A company wishes to arrange overdraft facilities with its bankers during the period April to June when it will be manufacturing most for stock. Prepare cash budget for the above period from the following data, indicating the extent of bank facilities the company will require at the end of the each month:

| Month | Sales Rs. | Purchases Rs. | Wages |
|--------------|------------------|----------------------|--------------|
| February | 180000 | 124800 | 12000 |
| March | 192000 | 144000 | 14000 |
| April | 108000 | 243000 | 11000 |
| May | 174000 | 246000 | 10000 |
| June | 126000 | 268000 | 15000 |

50% of credit sales are realised in the month following sales and the remaining 50% in the second month following. Creditors are paid in the month following the month of purchase. Wages are paid on the first of very next month. Cash at bank on 1st April Rs. 25000.

20. (a) Distinguish between standard costing and budgetary control.

(or)

(b) The Reliance limited furnishes you the following information:

| Particulars | I Half | II Half |
|--------------------|---------------|----------------|
| Sales | 8,10,000 | 10,28,000 |
| Profit | 21,800 | 64,800 |

From the above you are required to compute the following assuming that the fixed cost remains the same in both the periods.

1. PV ratio
2. Fixed cost
3. The amount of profit or loss where sales are Rs. 6,48,000
4. The amount of sales required to earn a profit of Rs. 1,08,000.

BBA - HARDWARE
MODEL QUESTION PAPER
COMPUTER ORGANISATION
(CORE SUBJECT)
PAPER - VIII

Time: 3 Hours

Maximum: 100 marks

PART A (10 x 2 = 20 marks)

Answer all questions.

Answer to each question shall not exceed six lines.

1. List down the various input devices in a computer
2. What is an operating system?
3. What do you mean by data?
4. What is RAM?
5. What is an algorithm?
6. What is parallel adder?
7. What are computer registers?
8. What is compiler?
9. What is meant by memory hierarchy?
10. What is virtual memory?

PART B (5 x 4 = 20 Marks)

Answer all questions

Answer to each question shall not exceed two pages

11. (a) What are the uses of a compiler?
(or)
(b) Distinguish between hardware and software
12. (a) What are the various modes of data transfer?
(or)
(b) What are various addressing modes?
13. (a) Explain the addition and subtraction algorithm.
(or)
(b) What are the complimentary arithmetic operations performed by the ALU?
14. (a) What are computer instructions?
(or)
(b) What are memory reference instructions?
15. (a) Explain the role of auxiliary memory in the memory unit.
(or)
(b) Explain the significance of cache memory in the memory unit.

PART C (5 x 12= 60 Marks)

(Answer all questions.

Answer to each question shall not exceed five pages)

16. (a) Explain the input devices used in a computer.
(or)
(b) Explain the various types of programming languages.
17. (a) Explain the functions of the CPU.
(or)
(b) Elaborate the role of the control unit in CPU.
18. (a) Elaborate the features of the ALU.
(or)
(b) Explain the components of the ALU.
19. (a) What are instruction codes? Explain the significance of instruction cycle.
(or)
(b) Explain the uses of instruction register.
20. (a) Narrate the functioning of the memory unit in a computer.
(or)
(b) Enumerate the characteristic features of the main memory in a computer.

BBA - HARDWARE
MODEL QUESTION PAPER
OPERATING SYSTEM
PAPER - IX
(CORE SUBJECT)

Time: 3 Hours

Maximum: 100 marks

PART A (10 x 2 = 20 Marks)

Answer all questions.

Answer to each question shall not exceed six lines.

1. Define operating system
2. Give some examples for system hardware.
3. What is process?
4. Which computer state called dead lock?
5. What is job sequence?
6. Give an example for multitasking operating system
7. What is FAT file?
8. State any two DOS file systems.
9. What are all the commands available for maintaining security in Unix?
10. What is GUI?

PART B (5 x 4 = 20 Marks)

Answer all questions.

Answer to each question shall not exceed two pages.

11. (a) Briefly explain the history of operating system
(or)
(b) What are the advantages of firmware?
12. (a) What are the advantages and limitations of pipeline processes?
(or)
(b) Explain the advantages of asynchronous processes
13. (a) Explain different steps involved in job scheduling
(or)
(b) What are the steps in processor scheduling?
14. (a) What are the contents of FAT file?
(or)
(b) What is the use of bootable utility? Explain.
15. (a) What are the Unix internal commands?
(or)
(b) Explain the advantages of DOS operating system?

PART C (5 x 12 = 60 Marks)

Answer all questions

Answer to each question shall not exceed five pages.

16. (a) What are all the functions of Operating system? Explain
(or)
(b) Explain different types of Software.
17. (a) What are all the advantages of parallel architecture? Explain
with diagram of the architecture
(or)
(b) Explain multi processing and its advantages.
18. (a) How Operating system manage secondary storage devices? Explain.
(or)
(b) Explain the factors of different file Operating system with an example
19. (a) How Unix differs from other Operating systems? Explain with
shell programming.
(or)
(b) What is MFC? Explain the special features of Windows Operating
system.
20. (a) Discuss operating system security practices.
(or)
(b) Narrate the advantages of windows operating system.

BBA - HARDWARE
MODEL QUESTION PAPER
8085 MICROPROCESSOR AND INTERFACING TECHNIQUES
(CORE SUBJECT)
PAPER – X

Time: 3 Hours

Maximum: 100 marks

PART - A (10 x 2= 20 Marks)

Answer all questions

Answer to each question shall not exceed six lines

1. If $(A) = * B$ and $(B) = DC$, what will be the content of carry flag after the instruction SUB B.?
2. Name the registers associated with ALU.
3. Give two examples for immediate addressing.
4. Mention any two memories related to data transfer instruction.
5. What is an assembler?
6. Name the four groups of 8085 instructions?
7. Specify the width of address bus and data bus of 8085.
8. Name the maskable interrupts of 8085.
9. What are the parts available in 8255 ?
10. Name the two signals used in DMA data transfer.

PART - B (5 x 4 = 20 Marks)

Answer all questions

Answer to each question shall not exceed two pages

11. (a) Discuss the functions of flags available in 8085.
(or)
(b) Draw the pin diagram of 8085.
12. (a) Classify the following instructions according to their word size
i. LXI rp, data ii. MOV M, A iii. ADI data
(or)
(b) Explain any three logical instructions.
13. (a) What is subroutine? Discuss CALL and RET structure.
(or)
(b) Write an ALP to add two 8-bit numbers.
14. (a) Explain asynchronous data transfer scheme.
(or)
(b) Discuss the Memory mapped I/O and I/O mapped I/O techniques.
15. (a) Draw the pin diagram of 8257 DMA controller.
(or)
(b) Explain the generation of control signals for memory and I/O devices.

PART-C (5 x 12 = 60 Marks)

Answer all questions

Answer to each question shall not exceed five pages

16. (a) Draw the block diagram of 8085 microprocessor and explain the function of each block.
(or)
(b) Draw the timing diagrams for the following machine cycles.
i. Memory read ii. I/O Write
17. (a) Discuss the various addressing modes of 8085 with suitable examples.
(or)
(b) Discuss the data transfer and arithmetic instructions.
18. (a) Write an ALP to multiply two 8-bit numbers.
(or)
(b) Write an ALP to divide two 8-bit numbers.
19. (a) Explain the three types of programmed data transfer scheme.
(or)
(b) Discuss the interrupts of 8085. Explain how they are enabled and disabled.
- 20 (a) Draw the block diagram of 8255 PPI and explain its operating modes.
(or)
(b) With a neat block diagram explain the functions of 8259 PIC.

BBA - HARDWARE
MODEL QUESTION PAPER
HUMAN RESOURCE MANAGEMENT
(CORE SUBJECT)
PAPER - XI

Time: 3 Hours

Maximum: 100 marks

PART A (10 x 2 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed six lines.

11. Define human resources management.
12. What are the objectives of HRM?
13. Explain man power planning.
14. What are the uses of HRM?
15. Explain the term 'Recruitment'.
16. Define the concept 'selection'.
17. What do you mean by training?
18. What is promotion?
19. What are the different types of training?
20. Explain the term 'transfer'.

PART - B (5 x 4 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed two pages

11. (a) Differentiate personnel management from human resource management.
(or)
(b) Explain the importance of HRM.
12. (a) Explain the importance of man power planning.
(or)
(b) Explain the nature of man power planning.
13. (a) Differentiate between recruitment and selection.
(or)
(b) Explain the sources of recruitment.
14. (a) Explain the importance of training to employees?
(or)
(c) What are the different types of training?
15. (a) Explain the reasons for promotion.
(or)
(b) What should be a good policy of promotion?

PART C (5 X 12 = 60 Marks)

Answer all Questions.

Answer to Each Question shall not Exceed Five Pages

16. (a) Explain the nature and scope of human resource management.
(or)
(b) Explain the functions of HRM.
17. (a) Explain the process of manpower planning.
(or)
(b) What are the uses and benefits of manpower planning?.
18. (a) Explain the process of selection.
(or)
(b) Explain the process of conduction of an interview.
19. (a) What are the different methods of training?
(or)
(b) What are the different methods of management development.
20. (a) Explain the reasons for dismissal.
(or)
(b) What are internal promotional systems? Which one would you recommend for promotion, seniority or merit? Why?

**BBA - HARDWARE
MODEL QUESTION PAPER
MARKETING MANAGEMENT
(CORE SUBJECT)
PAPER - XII**

Time: 3 Hours

Maximum: 100 marks

PART A (10 x 2 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed six lines.

1. Define 'Marketing'.
2. Explain the term 'Marketing Environment'.
3. Explain the term 'Market Segmentation'.
4. What do you mean by buying motive?
5. What are the elements of marketing mix?
6. What is pricing?
7. Explain 'personal selling'.
8. What do you mean publicity?
9. Define marketing research.
10. What do you mean by telemarketing?

PART - B (5 x 4 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed two pages

11. (a) Explain the scope of marketing.
(or)
(b) 'Marketing is a process' - Justify.
12. (a) Explain the importance of market segmentation.
(or)
(b) Explain the stages in buying decision process.
13. (a) How products are classified?
(or)
(b) Explain the different stages in the development of new product.
14. (a) Explain the meaning and scope of marketing research.
(or)
(d) Differentiate market research from marketing research.
15. (a) Explain the importance of personal selling.
(or)
(b) Explain the importance of publicity.

PART C (5 X 12 = 60 Marks)

Answer all Questions.

Answer to Each Question shall not Exceed Five Pages

16. (a) Explain the core concept of marketing and associate it with other concepts.
(or)
(b) Explain the factors of marketing environment.
17. (a) Explain the bases for segmenting the market.
(or)
(b) Explain the factors influencing consumer behaviour.
18. (a) Explain product life cycle. What are the different strategies used by the marketer in different stages of PLC?
(or)
(b) What are the pricing strategies used by the marketer?
19. (a) Explain the methods of sales promotion.
(or)
(b) Explain the selling process.
20. (a) Explain the recent trends in the Indian market.
(or)
(b) Discuss the significance of telemarketing in the Indian context.

BBA - HARDWARE
MODEL QUESTION PAPER
COMPUTER NETWORKS
(CORE SUBJECT)
PAPER - XIII

Time: 3 Hours

Maximum: 100 marks

PART A (10 x 2 = 20 Marks)

Answer all Questions

Answer to each question shall not exceed six lines

1. Define the term protocols.
2. What are the examples of unguided media?
3. Define modem.
4. What are the three major multiplexing techniques?
5. What is blocking?
6. List out ISDN layer.
7. What is the function of a repeater?
8. How internet differs from intranet?
9. What is the purpose of SMPS?
10. List out major web browsers?

PART - B (5 x 4 = 20 Marks)

Answer all Questions

Answer to each question shall not exceed two pages

11. (a) What is topology? explain different types of topology.
(or)
(b) Define signal. Describe different types of signals.
12. (a) Explain connection oriented service with example?
(or)
(b) What are all the advantages of message switching?
13. (a) How internet differs from other networks? Explain
(or)
(b) What are all the functions of repeaters?
14. (a) What is the use of SMPS?
(or)
(e) What are all the advantages of TELNET?
15. (a) Explain the importance of internet protocols.
(or)
(b) Explain the TELENET mechanism.

PART C (5 x 12 = 60 Marks)

Answer all Questions

Answer to each question shall not exceed five pages

16. (a) Discuss different transmission modes in networking.
(or)
(b) What is called media in network? Explain guided media.
17. (a) Explain any two multiplexing techniques with examples.
(or)
(b) What are the basic functions of Modem? Discuss different types of modems and their functions.
18. (a) What is switching? Explain any two switching techniques.
(or)
(b) What is ISDN? Explain the advantages of ISDN.
19. (a) What are all the advantages of World Wide Web? Explain.
(or)
(b) Explain TCP/IP protocols and its content.
20. (a) Explain internet working devices.
(or)
(b) What do you mean by common gateway interface? Explain its significance.

BBA - HARDWARE
MODEL QUESTION PAPER
PC HARDWARE : TROBLE SHOOTING AND MAINTANENCE
(CORE SUBJECT)
PAPER - XIV

Time: 3 Hours

Maximum: 100 marks

PART A (10 x 2 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed six lines.

1. What are the internal components of a PC?
2. Give the five ways to identify a CPU.
3. What are Heat sinks.
4. Point out the Types of RAM.
5. Why do we need BIOS?
6. What is the purpose of External Expansion Buses?
7. What is Formatting?
8. How will you burn a CD?
9. Write a short note on Dial-up Network.
10. What are Zip Drive and Super Disk Drivers?

PART - B (5 x 4 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed two pages

11. (a) Write short notes about history of computers.
(or)
(b) Explain the steps to be following for installing a fan and heat sink assembly,
12. (a) How will you install a New Motherboard? Explain
(or)
(b) Write short notes on USB and Firewire.
13. (a) Explain the Cooling Systems of the CPU.
(or)
(b) Explain the problems involved in CD Media Technology.
14. (a) How will you maintain input devices?.
(or)
(f) Explain the basic printer maintenance or various printers.
15. (a) Write short notes on Printer Errors.
(or)
(b) Write short notes on Local Area Networks.

PART C (5 X 12 = 60 Marks)

Answer all Questions.

Answer to Each Question shall not Exceed Five Pages

16. (a) Explain in detail about major components of a PC.
(or)
(b) What is CPU? How would you identify the right CPU for a motherboard?
17. (a) Explain in detail about the types of RAM Technologies.
(or)
(b) Explain in detail about AES types of Internal Bus.
18. (a) What is internal Bus? Explain the types of internal bus.
(or)
(b) Narrate your idea about power supply in detail.
19. (a) Explain the steps to be followed for identifying, installing and trouble shooting a floppy drive.
(or)
(b) How will you derive sensitive data form non sensitive data? Explain
20. (a) Explain in detail about IP Security Protocol.
(or)
(b) Explain about installing and configuring a Local Area Network.

BBA - HARDWARE
MODEL QUESTION PAPER
COMPUTER SECURITY
(CORE SUBJECT)
PAPER - XV

Time: 3 Hours

Maximum: 100 marks

PART A (10 x 2 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed six lines.

21. What do you mean by security?
22. What is threat?
23. What is Cryptography?
24. What do you mean by permutation?
25. What is Virus?
26. What are trapdoors?
27. What do you mean by modular?
28. What are Schema and Subschema?
29. What is Network?
30. What is Zip Drive?

PART - B (5 x 4 = 20 Marks)

Answer all Questions.

Answer to each question shall not exceed two pages

11. (a) Write short notes on Security Goals
(or)
(b) Explain briefly about computer criminals.
12. (a) Write a brief note on Encryption decryption.
(or)
(b) Compare and contrast the stream and Block Encryption Algorithms.
13. (a) Write a short note on Memory – Resident Viruses.
(or)
(b) Write a short note on Salami Attack.
14. (a) Write briefly about security issues in multi-level Databases.
(or)
(g) Explain the functions of commutative filters.
15. (a) Write a short note on TCP/IP.
(or)
(b) Specify the media used in network environment for communication?

PART C (5 X 12 = 60 Marks)

Answer all Questions.

Answer to Each Question shall not Exceed Five Pages

16. (a) Explain in detail about Segmentation.
(or)
(b) Explain in detail about the paging technique in operating Systems.
17. (a) Explain your views about DES algorithm.
(or)
(b) Explain in detail about AES encryption algorithm.
18. (a) Explain about modularity, encapsulation and Information Hiding.
(or)
(b) Narrate your views about Configuration Management.
19. (a) Explain the steps to be followed for Multilevel Security.
(or)
(b) How will you derive sensitive data form non sensitive data? Explain
20. (a) Explain in detail about IP Security Protocol.
(or)
(b) Explain the different types of topologies used in Network Environment.