

Babasaheb Bhimrao Ambedkar Bihar University, Muzaffarpur

Directorate of Distance Education

PROFESSIONAL/TECHNICAL 4TH SEMESTER

MCA/4th Semester/13-16: Master of Computer Applications

Paper-MCA21: Network Programming: MODEL QUESTIONS (Full Marks -70)

ANSWER ANY FIVE QUESTIONS

- Q. 1. Explain the socket structure and different types of sockets.
- Q. 2. What do you mean by I/O models? Describe different I/O models.
- Q. 3. Write a program in C for connectionless client.
- Q. 4. Write a program in C for connectionless server.
- Q. 5. Differentiate between concurrent server and iterative server.
- Q. 6. Write an algorithm for connection oriented iterative server for TCP/IP based communication.
- Q. 7. What is the different file transfer protocol is UNIX?
- Q. 8. Explain the socket structure and different types of socket.
- Q. 9. Discuss the Communication protocols.
- Q. 10. What do you mean by Protocol? Describe the function of each layer of TCP/IP Protocol suite.
- Q. 11. Compare and contrast between connection oriented and connectionless communications.
- Q. 12. Explain the structure of UNIX who its supports the network.
- Q. 13. Explain blocking I/O and non blocking I/O. Compare blocking I/O and non blocking I/O.
- Q. 14. What are active and passive socket?
- Q. 15. Write short notes on any two of the following:
 - a) Telnet
 - b) Ping
 - c) System Calls

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Paper-MCA22: Software Engineering: MODEL QUESTIONS (Full Marks -70)

ANSWER ANY FIVE QUESTIONS

- Q. 1. What is software engineering? Write down characteristics of software engineering?
- Q. 2. What is the principal aim of the software engineering discipline? What does the discipline of software engineering discuss?
- Q. 3. What do you mean by software process? What is the difference between a methodology and a process? Explain using suitable example.
- Q. 4. Differentiate between spiral model and prototyping model.
- Q. 5. Write and explain waterfall model.
- Q. 6. What are the major advantages of first constructing a working prototype before developing the actual product?
- Q. 7. What are the different categories of software development projects according to the COCOMO estimation model?
- Q. 8. What is CASE? Explain different tools available in CASE for software development.
- Q. 9. Discuss and explain spiral life cycle model.
- Q. 10. Write and explain the strategic approach to software testing.
- Q. 11. What do you mean by Code Reading? Also explain about code inspection.
- Q. 12. What are review meeting, review reporting and record keeping?
- Q. 13. What is testing? Differentiate between black box vs white box testing.
- Q. 14. What are the relative advantages of using either the LOC or the function point metric to measure the size of a software product?
- Q. 15. Write short notes on any two of the following:
 - a) Black Box Testing
 - b) DFD (Data Flow Diagram)
 - c) Formal Technical Review.

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MODEL QUESTIONS (Full Marks -70)

ANSWER ANY FIVE QUESTIONS

- Q. 1. What is the significance of an Operating System? Explain in detail file system in Unix Operating System.
- Q. 2. What is Kernel? What are the basic features of Unix Operating System?
- Q. 3. Explain the mounting and Un-mounting process in Unix.
- Q. 4. What do you mean by a process? What are the various possible states of Process? Discuss.
- Q. 5. Explain Inter-process communication with example.
- Q. 6. Explain message structure and queueing within UNIX.
- Q. 7. Explain various file related system calls.
- Q. 8. Write a function in C to implement the sleep function using alarm and pause functions.
- Q. 9. Write a program to create a pipe from the parent to child process and send data through pipe.
- Q. 10. Discuss and explain about vi editor. What are three modes of operations of vi?
- Q. 11. What do you mean by multi-threading? Explain it by taking example of pthread library.
- Q. 12. What do you mean by record locking? Explain functions available in C language to implement the concept of record locking in UNIX O/S.
- Q. 13. What do you mean by memory mapped I/O? Explain various functions available in C language to implement these features.
- Q. 14. Write and explain the type of SHELL available in Unix.
- Q. 15. Write short notes on any two of the following:
 - a) System variables
 - b) Remote File Transfer
 - c) Inspecting file contents.

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Paper-MCA24: Organization Behavior: MODEL QUESTIONS (Full Marks -70)

ANSWER ANY FIVE QUESTIONS

- Q. 1. What is an organization? Discuss the different features of organization.
- Q. 2. What is motivation? Why is it a critical issue of interest to managers in organizations?
- Q. 3. Discuss and explain various level of management.
- Q. 4. What is perception? Discuss about perception.
- Q. 5. Define leadership. Why is leadership important?
- Q. 6. Define motivation. Discuss any one motivation theory.
- Q. 7. What do you mean by communication? Describe the communication process, identifying its key parts.
- Q. 8. Explain the concept of group and 'group dynamics'. What are the characteristics of a group?
- Q. 9. Define organizational culture. Discuss the factors affecting organizational culture.
- Q. 10. Explain the concept of power and authority.
- Q. 11. What do you mean by functional structure of an organization? Discuss the advantage and limitations of functional structure.
- Q. 12. State the salient features of organization development.
- Q. 13. What do you understand by personality? Describe different determination of personality.
- Q. 14. What do you understand by "Transactional Analysis"? Describe as to how it helps in improving the interpersonal relationship?
- Q. 15. Write short notes on any two of the following:
 - a) Process of perception
 - b) Attitude and behavior
 - c) Profile of a manager.

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Paper-MCA25(BM Elective-I): Managerial Economics: MODEL QUESTIONS (Full Marks -70)

ANSWER ANY FIVE QUESTIONS

- Q. 1. Define Managerial Economics. Explain the nature of managerial economics.
- Q. 2. Define the concept of a firm and highlight the various objective of firm.
- Q. 3. How is Managerial Economics related to Economics, Accounting, Mathematics and Statistics?
- Q. 4. What is meant by price elasticity of demand? Explain the degrees of price elasticity of demand.
- Q. 5. Discuss the importance of Cost Analysis in managerial economics and explain the relationship between Average Cost and managerial Cost.
- Q. 6. Define the law of Demand. Why a normal demand curve slopes downward to the right.
- Q. 7. What are the various types of cost? Explain their interaction and find out the nature of cost curve with the help of diagrammatic applications.
- Q. 8. Define the concept of time perspective for decision making in managerial economics.
- Q. 9. Define forecasting. What is the scope of demand forecasting?
- Q. 10. Define monopoly. Explain the features of monopoly?
- Q. 11. Discuss the technique of multiple product pricing.
- Q. 12. Define perfect competition. How a monopolistic determines prices and output of his product under the monopoly market condition.
- Q. 13. Define Business Cycle. Explain the various phases of a business cycle.
- Q. 14. Define profit. What are the various methods of measuring profit?.
- Q. 15. Write short notes on any two of the following:
 - a) Full Cost Pricing theory
 - b) Break even analysis
 - c) Economic Growth.
