



Mahila Vikas Sanstha's

**INDRAPRASTHA NEW ARTS
COMMERCE & SCIENCE
COLLEGE,** AT POST MALWADI, DIST. WARDHA (M.S.)

Accredited 'B' by NAAC

Approved by government
of Maharashtra

Affiliated to Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur

Recognised by U.G.C New Delhi
under section 2 (f) & 12 (b) of
UGC act 1956

Department of Computer Science
Subject: System Analysis & Design(Paper II)
Class:- B.Sc II Sem
Question Bank

UNIT I

- 1. Define system in brief and explain components of computerized information system.**
- 2. Draw system development life cycle and explain its phases in brief.**
- 3. What is feasibility study? Explain organizational and technological feasibility.**
- 4. What is questionnaire? Design a questionnaire to know the internet awareness program among different age group users.**
- 5. Explain System Development Life Cycle (SDLC).**
- 6. Explain following data collection methods :**
 - (i) Questionnaires**
 - (ii) Interview**
- 7. Give classification of systems. Explain open system and closed system with example.**
- 8. What is Feasibility Study? Explain organizational and technological feasibility.**
- 9. What for interview technique is used ? Differentiate between structured and unstructured interview.**
- 10. Explain the following fact finding techniques :**
 - (i) Brain storming**
 - (ii) Observation**



Mahila Vikas Sanstha's

INDRAPRASTHA NEW ARTS COMMERCE & SCIENCE COLLEGE,

AT POST MALWADI, DIST. WARDHA (M.S.)

Accredited 'B' by NAAC

Approved by government
of Maharashtra

Affiliated to Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur

Recognised by U.G.C New Delhi
under section 2 (f) & 12 (b) of
UGC act 1956

UNIT II

1. Explain basic objective of input design and guideline of input design.
2. Construct Decision Table for the following problem : A computer file has customer name, type, bill number, bill date, amount and date of payment. If the customer is a dealer and pays his bills within 30 days, 10% discount is allowed. If it is 30 to 45 days, discount and surcharge is zero. If he pays after 45 days, he has to pay 10% surcharge. The corresponding percentages for a manufacturer are 10%, 0, 12.5%.
3. What is form design? Explain types of form and write principles of form design.
4. Why is training important? Describe training methods in brief.
5. What is Decision Tree? Construct Decision Tree for : Co-operative Bank has the following policy on deposit :
 - (1) On deposit of Rs. 10,000 /- and above and for 3 years or above, interest 15%.
 - (2) On the same deposit for period less than 3 years 12%.
 - (3) On deposit below Rs. 10,000 /- interest 10% regardless of the period of deposit.
6. What is Decision tree? Explain how it is used for making decision with examples.
7. List different types of code.
8. Explain physical representation of codes.
9. Explain the use of data flow diagram and specify the different symbols used in drawing a DFD with suitable example.
10. Explain different validation checks which can be applied to input design.
11. List main categories of output and explain any four.
12. Write principles of code design.



Mahila Vikas Sanstha's

**INDRAPRASTHA NEW ARTS
COMMERCE & SCIENCE
COLLEGE,** AT POST MALWADI, DIST. WARDHA (M.S.)

Accredited 'B' by NAAC

Approved by government
of Maharashtra

Affiliated to Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur

Recognised by U.G.C New Delhi
under section 2 (f) & 12 (b) of
UGC act 1956

UNIT III

1. Write short note on Data Dictionary.
2. Explain principles of code design
3. Write objective of system testing and explain any three types of testing
4. Write a short note on project monitoring and control.
5. What is project planning? Explain different factors considered in project planning.
6. What is software maintenance? Give different characteristics of software maintenance.
7. What is cost benefit analysis? Explain in brief.
8. Write notes on :
 - a. Software Reliability.
 - b. ISO 9000.
9. What is training? List different activities in training.
10. Write notes on following testing methods :
 - a. Function Testing
 - b. Subsystem Testing
 - c. System Testing.
11. What is system testing? State and explain different levels of system testing.
12. Explain following conversion methods :
 - a. Cold Turkey
 - b. Pilot method.



Mahila Vikas Sanstha's

**INDRAPRASTHA NEW ARTS
COMMERCE & SCIENCE
COLLEGE,** AT POST MALWADI, DIST. WARDHA (M.S.)

Accredited 'B' by NAAC

Approved by government
of Maharashtra

Affiliated to Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur

Recognised by U.G.C New Delhi
under section 2 (f) & 12 (b) of
UGC act 1956

UNIT IV

1. What is cost benefit analysis? Explain in brief.
2. Explain system tolerance in system design.
3. How to make planning to implement change?
4. Write a short note on Risk Management.
5. What is software maintenance? Give different characteristics of software maintenance.. What is project planning?
6. What are different factors that should be considered in project planning? List the major responsibilities of a software project manager.
7. Explain work breakdown structure and activity network model.
8. Discuss the following attributes which a software product must have :
 - (i) Portability
 - (ii) Maintainability
 - (iii) Reusability
 - (iv) Adaptive
 - (v) Perfective.
9. Discuss skills that a software project manager should possess.
10. Draw maintenance process model-2.
11. Discuss skills that a software project manager should possess.
12. Explain critical path method with example.