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Total No. of Questions : 13] [Total No. of Pages : 02

Paper ID [A0207]

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BCA / B.Sc. IT (202 / 304) (S05) (N) (O) (LE) (Sem. - 2nd/3rd)

SYSTEM ANALYSIS AND DESIGN

Time : 03 Hours **Maximum Marks : 75**

Instruction to Candidates:

1) Section - A is **Compulsory**.

2) Attempt any **Nine** questions from Section - B.

Section - A

Q1) *(15 x 2 = 30)*

a) Distinguish between Open and Closed systems.

b) What are the elements of a system?

c) Distinguish between Physical and Abstract systems.

d) What is physical design?

e) What is the use of DFD?

f) What are the advantages of Interviews and Questionnaires?

g) What is Structured Analysis?

h) Define bottom-up design.

i) What is the goal of output design?

j) What do you mean by Post Implementation?

k) Distinguish between Initial Investigation and Feasibility Study.

l) What do you mean by Onsite Observation tool of information gathering?

m) Distinguish between Structured and Unstructured interviews.

n) Define Audit Trial.

o) What do you mean by Conversion of system?

Section - B

(9 x 5 = 45)

Q2) Explain the various fact gathering techniques.

Q3) Differentiate between White-Box testing and Black-Box testing.

Q4) Explain the primary activities of System Maintenance.

Q5) Discuss different types of feasibility considerations in Feasibility Study.

Q6) What are the rules to construct a DFD? Give an example of DFD?

Q7) Write a note on Decision Tables.

Q8) What is a System Development Life Cycle? What are its various phases?

Q9) Write a note on Cost-Benefit Analysis.

Q10) What are the roles of System Analyst in SDLC?

Q11) Discuss the major development activities carried out during System design.

Q12) Write a note on Input/Output design.

Q13) What is a System? Discuss the characteristics of a System.