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SIIS-197 B-16
B.Sc. IIIrd Semester Degree Examination
Computer Science
(Information System Analysis and Design & COBOL)
Paper - CS-301

Time : 3 Hours

Maximum Marks : 80

Section - A

I Answer All questions (15×1=15)

- 1) Define DATA
- 2) What is strategic Information?
- 3) What is K-map?
- 4) Give example for tangible benefits.
- 5) What is DFD?
- 6) Define Relationship?
- 7) Define Entity
- 8) Expand the term BCNF
- 9) What is functional Dependency?
- 10) Give the syntax of Accept statement.
- 11) Write COBOL statement corresponding to the following mathematical statement.
$$y = Ax^2 + Bx + C$$
- 12) Give any two rules for naming the user defined words
- 13) What is LITERAL?
- 14) Define FILE.
- 15) What is the use of EXTEND mode in COBOL file handling?

Section - B

II. Answer any **Five** of the following.

(5×5=25)

- 16) What are the qualities of Information? Explain.
- 17) What are the methods of gathering Information? Explain
- 18) Write a note on structured English.
- 19) Explain system testing and quality control in brief.
- 20) Explain the COBOL coding sheet.
- 21) What is Editing? Illustrate any two editing characters with example.
- 22) Write a COBOL program to find sum of first 100 natural numbers.

Section - C

III. Answer any **Four** of the following.

(4×10=40)

- 23) Explain with examples the management structure and the responsibilities of each level manager.
- 24) Explain the role and task of a system Analyst.
- 25) What is normalization? Explain 1NF and 2NF with an Example
- 26) What is decision table? Explain in detail by taking an example .
- 27) Explain the structure of a COBOL program.
- 28) Write a COBOL program to create a sequential file for students with the following record structure:

Register Number	:	6 digits
Student Name	:	25 characters
Marks in physics	:	3 digits
Marks in Math's	:	3 digits
Marks in computer science	:	3 digits