

**S. Y. B. C. A.
BCA -204 Business Data Processing**

Teaching Scheme (per week)		Examination Scheme					
Th. (hours)	Pr. (hours)	Internal		External		Total	
		Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
3	-	30	-	70	-	100	-

Unit 1. (12 Marks)

- Structured programming concepts.
- Record, File.
- Introduction of COBOL.
- Divisions & their uses.
- Data division entries: level structure, picture clauses, value clause, editing characters, classes & categories of data, special-names paragraph, and usage clause justified clause.
- Data movement verbs Move.
- Arithmetic verbs.
- Add, Subtract, Multiply, Divide, Compute, Add Corresponding, Subtract corresponding.
- Sequence control verbs.
- Input and output verbs.
- Open, close, read, write, accept, display.
- Categories of COBOL statements.

Unit 2. (20 Marks)

- Condition.
- Relational, Sign, class, condition-Name, Nested, Compound.
- If statement.
- Nested if sentence, Decision table & If statement.
- Go to with Depending phrase.
- Perform statement.
- Exit statement.
- Redefines, renames, qualification of data, sign clause.
- OCCURS clause and subscription, assigning values to table elements, multi-dimensional tables.
- PERFORM verb and table handling.
- Perform with TIMES option.
- Perform with UNTIL option.
- Perform with VARYING option.
- Perform with the VARYING-AFTER option.

Unit 3 (18 Marks)

- File updation.
- SORT verb.
- MERGE verb.
- Examine verb.
- Inspect verb.
- Stiring and Unstring verbs.

Unit 4.

(20 Marks)

- Introduction to file organization.
- Type of files.
- Sequential file organization.
- Random or direct organization.
- Indexed sequential organization.
- Hashing algorithm: division remainder, digit analysis, mid-square, folding, radix.
- Creation and maintenance of Hashed file.
- Addition and deletion of records in indexed file.

Main Reference Books :

1. Roy. M.k. & Dastidar Ghosh D : Cobol Programming, Tata McGraw Hill Publications Comp.. 1982
2. Philipakis and Kazmier : Information System through Cobol, 2nd Edn. Tata McGraw Hill Int. Editions.
3. Cobol Programming with Business Applications By N. L. Sarda, Pitamber Publishing Company.
4. Schaum's Outline Series : Theory and Problems of Data Processing, Tata McGraw Hill Publications.

University Exam Paper Scheme:

University Examination Duration : 3 Hours.

- Q.1 - Unit-I (12 Marks)
- A. Objective/ Short Questions.
 - B. Descriptive/ Long questions.
- Q.2 - Unit-II (12 Marks)
- A. Objective/ Short Questions.
 - B. Descriptive/ Long questions.
- Q.3 - Unit-III (12 Marks)
- A. Objective/ Short Questions.
 - B. Descriptive/ Long questions.
- Q.4 - Unit-IV (10 Marks)
- A. Objective/ Short Questions.
 - B. Descriptive/ Long questions.
- Q.5 - Programs
- A. Unit II & III (14 Marks)
 - B. Unit IV (10 Marks)

Note: Options should be given in all questions.