



UN – 316

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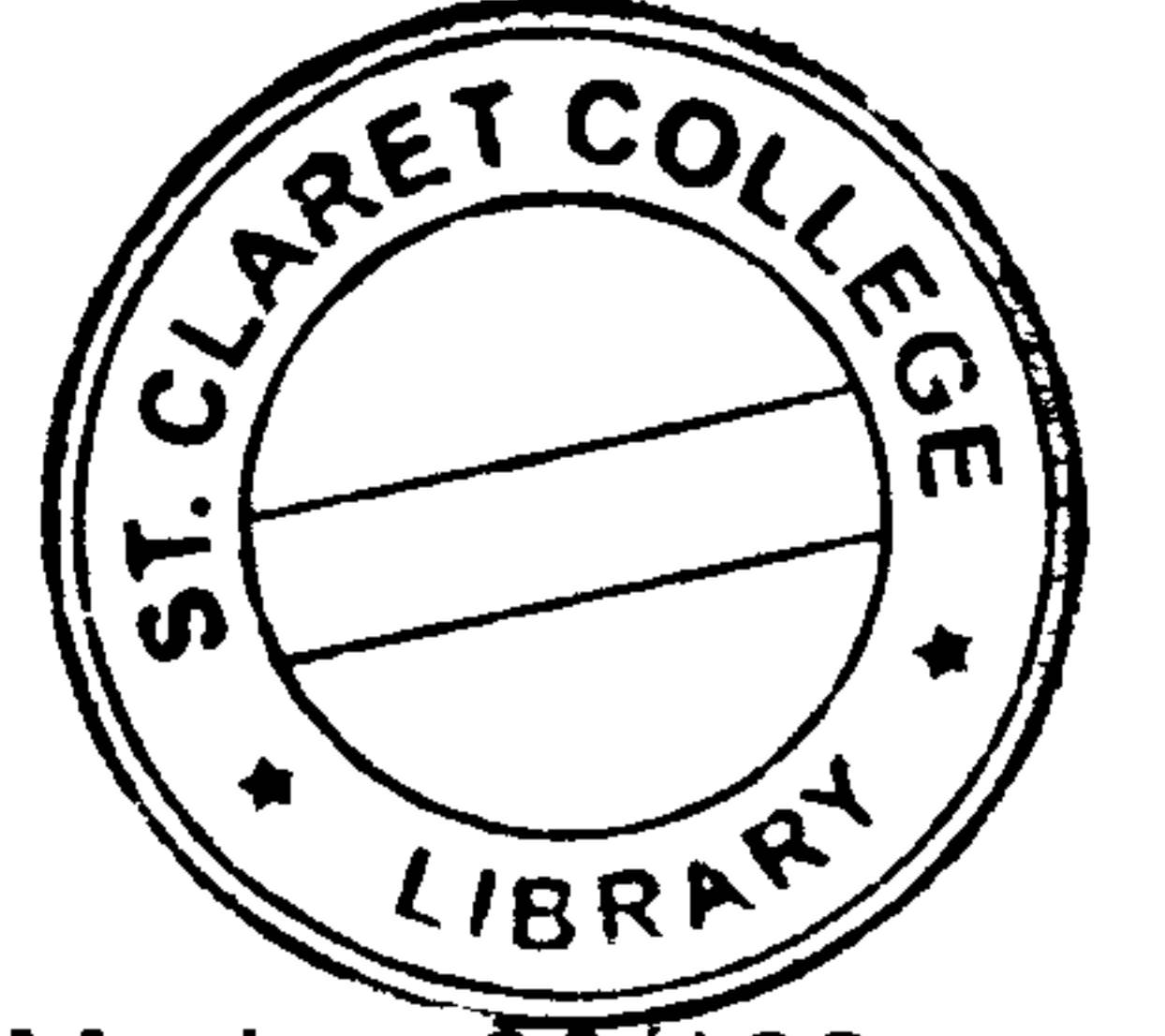
I Semester B.C.A. Degree Examination, November/December 2015
(Y2K8 Scheme) (R)

100 – 2011-12 and Onwards

90 – Prior to 2011-12

COMPUTER SCIENCE

BCA 103 : Computer Fundamentals



Time : 3 Hours

Max. Marks : 90/100

Instructions : 1) Section A, B, C is common to all.

2) Section D is **applicable** to students who have admitted in 2011-12 and onwards only.

SECTION – A

Answer **any ten** questions. **Each** question carries **two** marks.

(10×2=20)

1. Mention any two features of mainframe computers.
2. What is primary memory ? Mention two types of primary memory.
3. What are the types of keys available on the keyboard ?
4. Write any two external commands in DOS.
5. What are the merits of database ?
6. Expand LAN and MAN.
7. Mention any two applications of spreadsheet package.
8. Convert $(85B)_{16}$ to decimal format.
9. Write two drawbacks of first generation computers.
10. What is slide sorter view ?
11. What is meant by computer security ?
12. Define URL.

P.T.O.



SECTION – B

Answer **any five** questions. **Each** question carries **five** marks.

(5×5=25)

13. Explain the classification of personal computers.
14. Explain any one secondary storage device.
15. Give the merits and demerits of machine language.
16. Write a BASIC program to calculate simple interest.
17. Explain any five formatting features of word processor.
18. Explain Ring and Mesh Network topologies.
19. Write a note on multimedia.
20. Explain different items in desktop.

SECTION – C

Answer **any three** questions. **Each** question carries **fifteen** marks.

(3×15=45)

21. a) Explain characteristics of computer.
b) Explain the application of computers in science and engineering. **(7+8)**
22. a) Explain block diagram of a computer with a neat diagram.
b) What is a language translator ? What are the types of language translator ?
Explain. **(6+9)**
23. a) Convert the following numbers to decimal equivalents.
(10011100)₂, (7325)₈, (FACE)₁₆, (ABC)₁₆
b) What is a flowchart ? What are the symbols used ? Explain with suitable illustrations. **(8+7)**



24. a) Explain any five internal DOS commands with example.
b) Explain the different applications of PowerPoint. (10+5)
25. a) Explain different types of transmission media.
b) Write a note on :
i) Web browser
ii) Intranet. (5+10)

SECTION – D
(Only for 2011-12 and Onwards)

Answer **any one** question. **Each** question carries **ten** marks. (1×10=10)

26. a) Perform the following binary operation :
i) $111101_2 + 100100_2$
ii) $1010101_2 - 1000011_2$
b) What is E-mail ? Mention advantages and disadvantages. (4+6)
27. Briefly explain any five Built-in functions used in spread sheet with example. 10
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