

D 92911-M

(Pages : 2)

Name.....

Reg. No.....

THIRD SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CBCSS—UG)

Common Course

A 12—INFORMATICS AND EMERGING TECHNOLOGIES

(2019 Admissions)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A (Short Answers)

Answer at least ten questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 30.

1. Give the role of main memory (RAM) in a computer.
2. Give any *two* functions of an Operating system.
3. Differentiate between Digital and Analog systems.
4. Identify two applications of smart phones.
5. What is a LAN ?
6. How is a mobile operating system different from a PC/Laptop operating system ?
7. What is a secondary storage device ?
8. Give the basic principle of optical fibre.
9. Give any *one* scenario where holography is used to enhance security.
10. What is a 'social network' ?
11. Define digital signature.
12. Give the scope of cyber forensics.
13. What do you mean by biometrics ?
14. What is a smart card ?
15. Explain the term 'E-Commerce'.

(10 × 3 = 30 marks)

Turn over

Section B (Paragraph)

Answer at least five questions.

Each question carries 6 marks.

All questions can be attended.

Overall Ceiling 30.

16. Write a note on scientific databases.
17. Give an overview of evolution of internet.
18. Compare GSM and CDMA.
19. Briefly explain Holography.
20. Discuss any two applications of optical fibre.
21. List the functions of cybercrime cell.
22. Discuss security issues in social media.
23. Write a note on multimodal biometrics.

(5 × 6 = 30 marks)

Section C (Essays)

Answer any two questions.

Each question carries 10 marks.

24. Discuss the features of Microwave LAN, Radio LAN, Infrared LAN and WLL technologies.
25. Discuss in detail applications of LASER in different domain.
26. Discuss aspects of security issues in Banking, online shopping and e-mail. Suggest measures to carry out secure online shopping.
27. Discuss in detail any *four* biometric techniques used for authentication.

(2 × 10 = 20 marks)