D 11987 (Pages : 2) Name...

Reg. No....................................

THIRD SEMESTER (CBCSS–UG) DEGREE EXAMINATION
NOVEMBER 2021

Common Course (B.Sc. L.R.P. (Alternate Pattern))

A12—INFORMATICS AND EMERGING TECHNOLOGIES

(2019—2020 Admissions)

Time : Two Hours and a Half Maximum : 80 Marks

Section A

Answer atleast **ten** *questions.*
Each question carries 3 *marks.*
All questions can be attended.
Overall ceiling 30.

1. List any four educational websites.

2. Compare the role of RAM and secondary storage devices.

3. What are the different types of operating systems ?

4. What is WLL technology ?

5. Give any two key features of smart phones.

6. Give any two limitations of a mobile phone in comparison to a lap top in terms of software applications.

7. Give any two advantages of using optical fibre.

8. State the working principle of holograms.

9. Highlight any two applications of LASER in medical filed.

10. Differentiate between cyber security and cyber forensic.

11. Write any two security threats in social media.

12. Write any two desirable features of a password.

13. Define biometrics.

14. What do you mean by multimodal biometrics ?

15. Give any one situation where face recognition cannot be used for authentication.

$(10 \times 3 = 30 \text{ marks})$

Turn over

Section B

Answer atleast **five** *questions.*
Each question carries 6 *marks.*
All questions can be attended.
Overall ceiling 30.

16. Write a note on operating systems.

17. Discuss PCS networks.

18. Write a note on WLANs.

19. Discuss applications of LASER in entertainment.

20. Discuss the issues in online banking security.

21. Write a note on cyber forensic.

22. Discuss the process of recognizing a person from iris image.

23. Explain the steps in automatic signature verification.

$(5 \times 6 = 30 \text{ marks})$

Section C

Answer any **two** *questions.*
Each question carries 10 *marks.*

24. Compare GSM, AMPS and CDMA.

25. Discuss the applications of Holography in data storage and security.

26. Summarize the key aspects of IT act 2008.

27. Elaborate the steps in finger print verification. Identify the merits and limitations of face recognition, iris recognition, speaker identification and hand geometry based verification.

$(2 \times 10 = 20 \text{ marks})$