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THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2023

Common Course [B.Sc. LRP (Alternate Pattern)]

A12—INFORMATICS AND EMERGING TECHNOLOGIES

(2019—2022 Admissions)

Time : Two Hours and a Half　　　　　　　　　　　　　　Maximum : 80 Marks

Section A (Short Answers)

Answer questions up to 25 marks.
Each question carries 2 marks.
Ceiling 25 marks.

1. List any *four* storage devices used in modern computers.

2. Define operating systems. Name any *two* operating systems used in personal computers.

3. Identify any *two* applications of microwave LANs.

4. What is WAP ?

5. Highlight any *two* features of mobile operating systems.

6. Give two limitations of AMPS.

7. Give the basic principle of optical fibres.

8. Give any *two* applications of optical fibre.

9. How is LASER different from ordinary light ?

10. What is CIA triad ?

11. Identify any *two* E-mail security issues.

12. Differentiate HTTP and HTTPS protocols.

13. What do you mean by authentication ?

14. Give any *three* applications where finger print is used as a biometric.

15. List any *two* challenges in using face recognition as a bio-metric.

Turn over

Section B (Paragraph)

Answer questions up to 35 marks.
Each question carries 5 marks
Ceiling 35 marks.

16. Describe the properties of any two educational websites.

17. Differentiate between internet and intranet.

18. Summarize the features of GSM.

19. Describe the classification of LASER based on hazardousness.

20. Discuss any *three* online shopping frauds and approaches to prevent them.

21. List the procedures to follow to ensure secure browsing ?

22. Discuss smartcard based authentication.

23. Analyse the components of a speaker recognition system.

Section C (Essay)

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

24. Give a detailed account of CDMA and PCS network.

25. Discuss in detail applications of Holography.

26. Write notes on :

    (i) Cyber forensic ; and

    (ii) Cyber crime cell.

27. Describe a multimodal biometric system involving face, iris and hand geometry.

($2 \times 10 = 20$ marks)