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(Pages : 2)

Name.....

Reg. No.....

**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2022**

Common Course for B.Sc. LRP (Alternate Pattern)
A12—INFORMATICS AND EMERGING TECHNOLOGIES
(2019 Admission onwards)

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 educational websites.
2. What is the role of an Operating System ?
3. What are the different types of printers ? Differentiate between a printer and a plotter.
4. List and compare any two mobile OSs.
5. Differentiate LAN and WLAN.
6. What is WLL ?
7. What is a Hologram ?
8. List applications of optical fiber.
9. Mention applications of Holography in security.
10. List any four cyber security issues.
11. Define digital signature.
12. Give any two issues you will refer to cyber crime cell.
13. Define multimodal biometrics.
14. Give any two features that make computer based face recognition difficult.
15. What is a smart card ?

Turn over

Section B (Paragraph)

Answer questions up to 35 marks.

Each question carries 5 marks.

Ceiling 35 marks.

16. Write a note on memory systems.
17. Explain the working of LCD monitors.
18. Discuss working principle, merits and applications of radio LAN.
19. Discuss the features of mobile operating systems.
20. Explain Holography technology.
21. Discuss the role of cyber forensic in controlling cyber crimes.
22. Summarize security issues in social media.
23. Write a note on speaker verification.

Section C (Essay)

*Answer any **two** questions.*

Each question carries 10 marks.

24. Summarize the evolution of mobile phone technology.
25. Discuss in detail applications of LASER.
26. Discuss security issues in online banking and online shopping.
27. Discuss the following biometric systems highlighting their merits and limitations.
 - i) Finger print.
 - ii) Hand geometry.

(2 × 10 = 20 marks)