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Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, March 2021.**

**First Degree Programme under CBCSS**

**Physics**

**Elective Course**

**PY 1661.5 – COMPUTER HARDWARE AND NETWORKING**

**(2018 Admission Regular)**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**

(Answer all questions, Each carries 1 mark)

1. What is BIOS?
2. What is RISC processor?
3. What is an expansion slot?
4. List two modern PC motherboard form factors?
5. Mention what is form factor for a mother board?
6. What is Vaccine referring to computers?
7. What is CD-R disc?
8. What are daughter boards?

P.T.O.

9. What are Routers?
10. Mention the data rate supported by a GSM system?

(10 × 1 = 10 Marks)

SECTION – B

(Answer **any eight**, each carries **2** marks)

11. Mention the architectural features of the Pentium III processor?
12. Explain Industry Standard Architecture bus?
13. What is a sound card?
14. Describe any one formatting procedures associated with Disk formatting.
15. What is super I/O chip?
16. Briefly describe the FAT and NTFS file systems used in PC systems.
17. Describe the working of a scanner.
18. What are tracks and sectors in a HDD?
19. What are SCSI controllers?
20. What is an OSI model?
21. What is a Firewall?
22. What is WAP?
23. Define the following terms
  - (a) GPRS
  - (b) GSM?

24. Explain the working of a dot matrix printer.
25. Compare GSM with CDMA
26. What are the advantages of chipset?

**(8 × 2 = 16 Marks)**

### SECTION – C

(Answer **any six**, each carries **4** marks)

27. Explain the MCA bus architecture.
28. Compare AMD K5 and K6 Processors.
29. What is a chipset? What are its advantages?
30. Draw and explain the functional block diagram of a computer.
31. What are the four main functions of BIOS?
32. List the basic components of a typical 3 1/2" FDD
33. Explain mother boards and daughter boards.
34. Explain the **working** of an offline UPS.
35. Mention the symptoms observed on a computer due to virus attack?
36. Explain how keyboards are interfaced with computers?
37. Describe the working of a CRT monitor.
38. What are the four main types of ROM chips that are used in PC?

**(6 × 4 = 24 Marks)**

SECTION – D

(Answer **any two**, each carries **15** marks)

39. Explain the different Add-on cards.
40. Explain briefly the TCP/IP protocol suite.
41. Explain the different network protocols.
42. Describe the various types of PC buses.
43. Explain the principle and working of various optical Disk Drive.
44. Explain the terms
  - (a) WRAM
  - (b) RDRAM
  - (c) CDRAM

(2 × 15 = 30 Marks)