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J – 1843

Reg. No. :

Name :

Sixth Semester B.Sc. Degree Examination, March 2020

First Degree Programme under CBCSS

Physics

Elective Course

PY 1661.5/PC 1661.6 — COMPUTER HARDWARE AND NETWORKING

(2013 Admission onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** question in **one** or **two** sentences Each question carry **1** mark.

1. What is the advantage of a RISC processor?
2. Give the difference between RAM and ROM types of memories.
3. Write any two BUS standards.
4. What is the function of a DVR card.
5. What is the difference between CD and DVD in their capacity?
6. What are peripheral devices? Give example.
7. What do you understand by GPRS technology?

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8. What is the function of a Router?
9. Give two different types of Antivirus used in PC.
10. Distinguish between SIMM and DIMM.

(10 × 1 = 10 Marks)

SECTION – B

Answer **any eight** questions not exceeding a paragraph. Each question carries **2** marks.

11. Draw the functional block diagram of a computer.
12. Write the names of Pentium family processors in the order of their introduction.
13. Discuss the merits and demerits of different types of printers.
14. What is the function of an internal modem? How do you connect it in a computer?
15. What are the components of a Floppy drive unit?
16. What is an Optical disc drive? How data is written in and read from an Optical drive?
17. What do you mean by Bluetooth technology? What are its advantages?
18. What do you understand by TCP/IP? Explain the advantages of this technology.
19. What is a reserved IP address? Explain the need of it.
20. What is the advantage of networking computer systems? Explain the terms LAN and WAN.

21. What are computer viruses? Explain any two symptoms of virus attack in a computer
22. What is the importance of a VDU? Write the names of any two VDUs.

(8 × 2 = 16 Marks)

SECTION – C

Answer **any six** questions. Each question carries **4** marks.

23. How do you explain and classify computer viruses?
24. Distinguish online, offline and hybrid UPS in their functionality, operation and advantages.
25. What are add on cards. What is the advantage of using separate add on cards for sound and video.
26. How do you change IP address from dotted decimal notation to binary notation. Give example.
27. What do you understand by Class of an IP address. Give example.
28. What is a Universal serial Bus. Discuss advantage over previous serial connectors?
29. Draw the OSI model diagram.
30. How do you classify LAN protocol.
31. What are firewalls. Why it is important to protect your system.

(6 × 4 = 24 Marks)

SECTION – D

Answer **any two** questions. Each question carries **15** marks.

32. Write the different components of a motherboard and explain their functions in detail.
33. Explain the features and functions of different connectivity devices under LAN.
34. Write a note on emerging technologies in wireless and mobile technology.
35. What is an SMPS? Discuss their advantages, functional block diagram and operation.

(2 × 15 = 30 Marks)