QP CODE: 19101046

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Reg No : .....

Name : .....

B.Sc.DEGREE (CBCS) EXAMINATION, DECEMBER 2018

First Semester

B.Sc. Physics Model II Computer Applications

Vocational Course - CA1VOT01 - COMPUTER SCIENCE - COMPUTER FUNDAMENTALS

2017 Admission (Reappearance)

D9A0B052

Maximum Marks: 80 **Time: 3 Hours**

Part A

Answer any **ten** questions.

Each question carries **2** marks.

1. What is Napier logs and bones?
2. Write four characteristics of a computer.
3. Write four capabilites of a computer
4. What are the basic functions of a computer?
5. What do you mean by positional number system?
6. Perform octal addition 456+732
7. What is optical mouse?
8. What are hand-held scanners?
9. Give any four components of a motherboard.
10. What is the relation between hardware and software?
11. Name any two utility software.
12. What is Proprietary software?

(10×2=20)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Discuss third generation of computer.
14. Explain how computers are classified based on their prcessing capabilites.
15. Explain CPU.

16. Perform hexadecimal aritmetic i) 1D9A+86CF ii) AB1F.DB+ 38AC.72.

17. With diagram explain the working principle of a CRT monitor.

18. Differentiate SRAM and DRAM.

19. Explain the storage organization and access mechanism of an optical disk.

20. Explain the term System software with examples.

21. What are the advantages and limitations of flowcharts? Explain different symbols using in flowcharts.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Explain various types of computers based on its size.

23. Discuss secondary storage devices of a digital computer.

24. Discuss about dot-matrix printers,drum printers and laser printers

25. What is application software? Explain it with example.

(2×15=30)