QP CODE: 19103239

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Reg No : .....

Name : .....

B.Sc.DEGREE (CBCS) EXAMINATION, NOVEMBER 2019

First Semester

B.Sc. Mathematics Model II Computer Science

Vocational Course - CA1VOT03 - COMPUTER SCIENCE - COMPUTER FUNDAMENTALS

2017 Admission Onwards

A56C9404

Time: 3 Hours Maximum Marks :80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Define computer.
2. What are the components of a workstation?
3. Define an octal number system.
4. Convert (385)10 to octal.
5. What are the functions of control unit?
6. What are flatbed scanners?
7. Define system software. Give example.
8. What are the three categories of computer languages?
9. What is flow chat?
10. What is a computer network?
11. What are the advantages and limitations of communications satellite?
12. Differentiate LAN and WAN.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Discus about first and second generation of computers.

14. Discus mainframe computer.

15. Convert the following numbers to binary and decimal. (i) (625)8 (ii) (356)8

16. Explain EBCDIC code with table.

17. Explain storage unit of a computer.

18. Explain briefly any 4 output devices.

19. Write an algorithm for calculating the grade of 50 students.

20. What are the roles of a communication prptocol?

21. Explain about Telnet and Electronic Mail.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Describe how computers are classified based on their Capacity.

23. Convert the following to its corresponding equivalent as directed. a) (110001.100)2 = (……..)10 b) (234)8 = (…..)10 c) (1130)10 = (…….)8 d) (2F3)16 = (…….)8 e) (5261)8 = (……..)16

24. Explain logical organisation of a computer with neat diagram.

25. Explain software development life cycle?

(2×15=30)