# SARDAR PATEL UNIVERSITY <br> V.V.NAGAR <br> EXTERNAL EXAMINATION (2013) 

S. Y. Bsc-BNF

COURSE: : US03CBNF02
DATE: $16 / 11 / 2013$
TIME: 2:30 to 5:30 PM

## Q. 1 Multiple Choice Questions :

## SUB:: Computer Fundamental

MARKS::70

1. Which device is used in $1^{\text {st }}$ Generation of Computers?
a. Vacuum Tube
b. Transistor
c. IC
d. Silicon Chip
2. Which one of the following is not Hardware?
a. Key Board
b. CPU
c. ROM
d. MS-Word
3. The Binary value of Hexadecimal $F$ is $\qquad$ ?
a. 1111
b. $\quad 1110$
c. 1100
d. 1101
4. Which is the example of System Software?
a. Payroll System
b. Reservation System
c. Medical Store System
d. Operating System
5. Which one of the following is Binary of Decimal 5?
a. 010
b. 100
c. 110
d. 101
6. The Hamming distance of 100101 and 101011 is $\qquad$ .
a. 2
b. 3
c. 4
d. 5
7. Which of the following Command is used for Pattern Searching?
a. Sort
b. Search
c Grep
d. Cat
8. Which of the following Command is display current Username?
a. Who
b. User
c. Who am i
d. Who are u
9. Heart of the Unix system is
a. Hardware
b. Kernel
c. Shell
d. Application
10. In E-R model E means $\qquad$
a. Equally
b. entity
c. End
d. Escape
Q. 2 Explain any Ten ..... [20]
11. What is Software? Give examples.
12. What is Hardware? Give examples.
13. Define Binary Number System.
14. Perform: $(10010)_{2}+(01001)_{2}=(\ldots)_{2}$.
15. Perform: $(100101)_{2}-(001010)_{2}=(\ldots \quad)_{2}$.
16. List out Features of Unix system.
17. Explain LS command.
18. What is Foreign Key?
19. List out advantages of DBMS.
20. How we create and Remove Directory in Unix?
21. Write Full form of ASCII.
22. Explain Entity in E-R Model.

Q. 3 A. What is Computer? Draw the block diagram of Computer?
Explain its different functional units in detail.

B. Write Seven Steps of Instruction Execution cycle
OR
Q. 3 Perform the following : [10]

| (1) | $(8636)_{10}$ | $=(\square)_{2}$ |
| :--- | :--- | :--- |
| (2) | $(\text { A3D })_{16}$ | $=(\square)_{10}$ |
| (3) | $(5430)_{8}$ | $=(\square)_{10}$ |
| $(4)$ | $(763.25)_{10}$ | $=(\square$ |

Q. 4 A. What is Hamming Code? Find the Hamming code of $(128)_{10}$
B. Explain Register Addressing in detail
OR
Q. 4 A. What is Hamming Code? Find the Hamming code of (256) 10 [6]
using even parity.
B. Explain ASCII in detail. [4]
Q.5 Explain Grep Command with syntax, Options and Example. [10]

> OR
Q. 5 Expalin Sort and Cat command with Syntax and Example.
Q. 6 A. Explain databse Components in detail. $\quad * 6$ ]
B. Explain HDM(Hierarchical data model in detail). [4]
OR
Q. 6 A. Explain Databse Organization in Detail. [6]
B. Explain three Types of relationship in detail.

