

[46]

SEAT No. _____

No. of Printed Pages : 2

SARDAR PATEL UNIVERSITY
S.Y. B.Sc. EXAMINATION, SEM – III
BIO INFORMATICS

US03CCBI02: Computer Fundamental

Date: 22/11/2018, Thursday

Time: 02:00pm To 05:00pm

Max. Marks: 70

[10]

Q-1 Multiple Choice Questions:

- i) CPU stands for _____.
(a) Control Processing Unit (b) Central Processing Unit
(c) Control Programming Unit (d) None of above
- ii) In Hexadecimal Number system, A is stands for _____.
(a) 10 (b) 15 (c) 14 (d) None of above
- iii) ALU stands for _____.
(a) Arithmetic Logic Unit (b) Arithmetic Logic Usage
(c) Arithmetic Logic Unit (d) None of above
- iv) The representation of 10 using Excess notation is _____.
(a) 11101101 (b) 11001101 (c) 10001010 (d) 10110011
- v) ASCII equivalent of A is _____.
(a) 66 (b) 67 (c) 68 (d) 65
- vi) The representation of -18 using 1's complement is _____.
(a) 1001101 (b) 11101101 (c) 10001010 (d) 10110011
- vii) How do you get help about the command "cp"?
(a) help cp (b) cp ? (c) man cp (d) cat cp
- viii) PWD stands for _____.
(a) present working directory (b) present working diary
(c) past working directory (d) past working diary
- ix) How many conceptual schemes are available per database?
(a) one (b) two (c) three (d) four
- x) Relation can be represented as _____.
(a) Record (b) Data (c) Raw (d) Table

Q-2 Answer the following questions in short : (Any 10)

[20]

- i) List the base of Binary, Octal and Hexadecimal number systems.
- ii) Define the terms 'Hardware' and 'Software'.
- iii) What is Computer?
- iv) Explain BCD character code.
- v) Explain signed magnitude method with example.
- vi) Explain EBCDIC character code.
- vii) What is Operating system?
- viii) Explain date command of Unix OS.
- ix) Explain who command of Unix OS.
- x) Define the term DBMS.
- xi) Define the term field.
- xii) Define the term database file.

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(P.T.O.)

- Q-3 Draw a block diagram of Basic Organization of a Computer System and explain the functions of the various units. [10]
- OR
- Q-3 a) Explain the conversion of Binary to Hexadecimal with example. [05]
b) Explain the conversion of Octal to Decimal with suitable example. [05]
- Q-4 Explain High level language and machine level language in detail. [10]
- OR
- Q-4 a) Explain any direct Addressing Techniques in detail with example. [05]
b) Explain Hamming code method with example. [05]
- Q-5 a) Explain UNIX Operating System with its features. [05]
b) Explain grep and sort commands. [05]
- OR
- Q-5 a) Explain the functions of Disk Operating System. [05]
b) Write short note on Windows Operating System. [05]
- Q-6 Explain relational data model and network data model with advantages and disadvantages. [10]
- OR
- Q-6 a) Explain E-R model with advantages and disadvantages. [05]
b) Explain advantages and disadvantages of DBMS. [05]

