INDIAN SCHOOL SOHAR
UNIT TEST I (2024-25)
COMPUTER SCIENCE (083)
SET-2

CLASS :XI   MAX.MARKS :20

DATE : 26/05/2024   TIME: 40 mins.

General Instructions:
1. This question paper contains five sections, Section A to E.
2. All questions are compulsory.
3. Section A has 6 questions each carrying 01 mark.
4. Section B has 1 Very Short Answer type question carrying 02 marks.
5. Section C has 1 Short Answer type question carrying 03 marks.
6. Section D has 1 Long Answer type question carrying 04 marks with internal choice provided against **part iii**.
7. Section E has 1 internal choice-based question carrying 05 marks.

SECTION A

1. One nibble is equivalent to how many bits?   1
   a. 2   b. 8
   c. 4   d. 1

2. Which of the following is an image-based input device?   1
   a. OMR   b. Scanner
   c. OCR   d. Printer

3. Contents of this primary memory are retained even after the device is shut down.   1
   a. ROM   b. HDD
   c. RAM   d. Cache

4. Which of the following is not an example of system software?   1
   a. Language Translator   b. Utility Software
   c. operating System   d. Word Processors

5. Which encoding scheme provides the provision to use Indian scripts?
   a. ASCII   b. ISCII
   c. Unicode   d. Binary

Q6 is **ASSERTION AND REASONING** based question. Mark the correct choice as :

a.   Both A and R are True and R is the correct explanation for A
b.   Both A and R are True and R is not the correct explanation for A
c.   A is True but R is False
d.   A is False but R is True

6. **Assertion (A)**: Languages that use compiler are faster when compared to languages that   1
   use an interpreter**.**
   Reason (R) : Compiler converts programs in high-level language to machine language in
   one go.

SECTION-B

7. A Student of Class XI needs to prepare an assignment on operating system. Help him by defining an operating system with an example and mention any 1 function of an OS. 2

SECTION-C

8. Write a note on application software and its types with an example each. 3

SECTION-D

9. Convert: 1+1+2

i. $1101001001_2 = \underline{\hspace{3cm}}_{16}$

ii. $3174_8 = \underline{\hspace{2.5cm}}_2$

iii. $56718_{10} = \underline{\hspace{2cm}}_{16}$

OR

iii. $B7A9_{16} = \underline{\hspace{2.5cm}}_{10}$

SECTION E

10. Draw the logic circuit and truth table for the following expressions: 3+2

i. F1=ABC+A'+A'BC

ii. F2=X'+Y'

OR

i. R1=(A+B)'(A+C)

ii. R2=A'.B'

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