THE TEXTILE ASSOCIATION (INDIA)
A.T.A. PART-I EXAMINATION-2018
PAPER – A 1.5
ELEMENTS OF COMPUTER AND ITS APPLICATIONS

Date 26.12.2018 MARKS: 100 Time: 10.00 a.m to 01.00 p.m

Instructions:
1. Attempt six questions out of which Q.1 is compulsory.
2. Answer each next main question on new page
3. Figure to the right indicates full marks.
4. Illustrate your answer with sketches and flow chart whenever necessary.
5. Use of non-programmable electronic pocket calculator permissible.
6. Mobile and any other communication devices are not allowed in exam hall.
7. Assume suitable data wherever necessary

1. State 'True' or 'False'
   i. Linux is an operating system
   ii. BIOS stand for Basic Information Operation Service
   iii. Scanner and Joysticks are input and output devices
   iv. Hyperlink can be used to navigate documents
   v. RAM and ROM are secondary memory devices.
   vi. URL means Universal Record Location.
   vii. Unix operating system was developed using the programming language ‘C’
   viii. Radix of Decimal number system is 8.
   ix. Windows operating is multiuser operating system.
   x. ASCII stands for American state code for internet information.

2. Answer the following:
   i. What is system software? Explain why it is essential for computer system.
   ii. Differentiate between Application program and programming Language.
   iii. Explain various types of computer.

3. Answer the following:
   i. Write a ‘C’ program to check whether the given number is even or odd.
   ii. Write a program to accept a year from user and check whether the entered year is leap year or not.

4. Answer the following(Any Four):
   i. What is the meaning of algorithm in computer science? Explain its importance
   ii. What is global and local variable in language ‘C’?
iii. Describe pseudo code.
iv. Explain Bresenham’s Line Drawing Algorithm.
v. Write a short note on ‘Normalized device co-ordinates’.

5. **Answer the following:**
   i. Write a short note on ‘Use of comments in ‘C’ program’ and state different ways to write a comment.
   ii. Name and describe the four basic data types in ‘C’.
   iii. Explain different Arithmetic operators with suitable examples.
   iv. Differentiate between compiler and interpreter in ‘C’.

6. **Answer the following:**
   i. What is library function? Discuss library function in ‘C’ programming.
   ii. State different layers of Computing systems.
   iii. Differentiate between Do ... while and while loop in ‘C’
   iv. Write a ‘C’ program for creating a Pyramid and pattern.

7. **Answer the following:**
   i. What is mail merge in MS Word? Explain the steps involved in mail merge.
   ii. Write the full form of the following:
       1. EPROM
       2. DVD
       3. USB
       4. URL
   iii. Discuss virtual memory.
   iv. Explain the steps to print document in MS Word.
   v. Differentiate RAM and ROM.

8. **Answer the following:**
   i. Explain the following in MS-Excel:
       1. The number of rows in a worksheet
       2. Formula’s in Excel.
       4. Mod
   ii. Write the steps for setting up a printer in word.
   iii. What is Unix operating system? State the advantages and disadvantages of Unix?
   iv. Why we use sumif and countif function in MS Excel?