THE TEXTILE ASSOCIATION (INDIA)
A.T.A PART – I NEW THREE YEAR EXAMINATION - 2017
PAPER – A.1.5
ELEMENTS OF COMPUTER AND ITS APPLICATIONS

Date: 27.12.2017  Marks: 100  Time: 10.00 am to 1.00 pm

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 indicate 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

Q1  Say True or False

i. DOS is an example of Multitasking Operating System  2
ii. IOSYS.COM is a booting file  2
iii. MOVE Command is used to delete a file  2
iv. DISK COPY is an EXTRA Command.  2
v. MEMORY BOARD is an integral part of Digital Computer  2
vi. Hybrid computers are computers that exhibit features of analog
    computers and digital computers.  2
vii. PRINTER AND VIDEO TERMINAL is an Output device  2
viii. An Integrated Circuit is Complicated Circuit  2

Q2. Answer the following:

a  Write a brief history of Computer Hardware?  6
b  "The Computer is a problem-solving unit". Justify your answer.  5
c  What are the basic functional elements of Digital Computer?  5

Q3. Answer the following

a  Write a ‘C’ Program for: Given a positive integer n, count the total
    number of set bits in binary representation of all numbers from 1 to n.
    Examples: Input: n = 3, Output: 4  8
b  Write a “C” program for creating a Pyramid and Pattern  8

Q4

a  What is meaning of Algorithm in Computer Science and Why they are
    important  3
b  How do you design an algorithm?  3
c  What is an algorithm in DAA?  4
d  What is a pseudo code?  2
What is the difference between Pseudo code and Algorithm?

Q5.

a What is C Structure
b What are Control structure? Name some Flow Control statement
c Write flow chart for IF and ELSE statement
d What is OPERATOR in C programming.

Q6.

a What is Library function? What are Library functions in C programming
b What is the use of user defined functions in C?
c Which are the layers of Computing system?
d Draw the Block Diagram of Computer and discuss its various components

Q7.

a What are the important components of MS-Office
b Write the full form of
   a) CD-ROM
   b) VCD
   c) DVD
   d) DVD-RW
c Explain the characteristics and capabilities of a computer in detail.
d What is Memory Cell? Explain RAM.
e What is Virtual Memory? Explain.

Q8.

a Explain the following in MS-WORD
   i) Newspaper style column
   ii) Editing a file
   iii) Coping a block to another file
   iv) Short cut keys for Bold, Italic, Underline.
b Write the steps for setting up a printer in WINDOWS. Air Index Value
c What is Database Handling? How can sorting and filtering be performed on data present in MS-EXCEL sheet.
d What is an Operating System? Explain the types of Operating System in detail.

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