Date: 27.12.2013  Marks : 100  Time: 10 am to 1 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 wherever 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.

Q.1. a. Justify the following statements:
   i. New generation of evenness testers allow the simultaneous testing of yarn evenness along with other different parameters including hairiness.
   ii. Enterprise Resource Planning is the latest high-end solution information technology has lent to textile business application.

b. Explain the following with example:
   i. What are different types of variables? Why do we need them?
   ii. Explain arithmetic, logical and comparison operators.


b. Explain in brief micro-controller application in textile industry.

Q.3. a. Explain the working principle of any one of the hairiness testers:
   i. Uster tester with Hairiness Measurement attachment OR
   ii. Shirley Hairiness tester

b. Explain briefly different settings for imperfections viz thin places, thick places and nepswith respect to any model of Uster evenness tester.

Q.4. a. What are the different applications of Micro-processor in Loom shed?

b. Explain working principle of strain gauge transducers.


b. Explain different commonly used Visual Basic Controls like Textbox.

PTO
Q. 6. a. Explain Using 'If...Then...Else' and 'Select' case with an example. (06)
b. Explain looping in Visual Basic with example. How to make a quick exit in nested loops? (10)

Q. 7. a. Write a console program which prints 'hello world'. Example each statement. (10)
b. Explain idea behind ActiveX controls, wizards and form templates. (06)

Q. 8. Write a program which takes as input a, b, c and gives output:
   a+2*b+c if any of input a, b, c is less or equal to 100,
   a+b+c if any of input a, b, c is greater than 100

   where ' stand for multiplication.

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