MODERN CONVENT SCHOOL
Mid-Term Examination (2023-24)
Class VII
Subject: Mathematics

Time: 2 hours 30 min

Date: 22/09/2023

M.M:60

No. of pages: 06

General Instructions:

1 The question paper has four sections. (Section A – Section D).

2 Section A has 16 MCQs carrying 1 mark each.

3 Section B has one question of 3 marks, one question of 4 marks and one question of 5 marks.

4 Section C has four questions of 3 marks and three questions of 4 marks.

5 Section D has two case study questions of 4 marks each.

SECTION – A

Q1 Choose the correct answer from the given four options:

(i) The median of the data 24, 36, 46, 17, 18, 25, 35 is: (1)

a) 2 4   b) 46   c) 25   d)17

(ii) x=5 is the solution of the equation: (1)

a) $4x-5=6$ b) $2x+5=7$ c) $3x+5=4$ d) $5x+5=30$

(iii) A pair of complementary angles is: (1)

a) $130^0, 50^0$ b) $35^0, 55^0$ c) $25^0, 75^0$ d) $27^0, 53^0$

(iv) The fraction 114/138 reduced to simplest form is: (1)

a) 114/138   b) 57/69   c) 19/23   d) 23/19

(v) The exterior angle of a triangle is 120^0. If one of the two interior opposite angles is 45^0, then the other interior opposite angle is (1)

a) 70^0 b) 75^0 c) 60^0 d) 80^0

(vi) In a $\triangle XYZ$, $\angle X=60^0$, $\angle Y=50^0$, then the measure of $\angle Z$ is: (1)

a) 70^0 b) 80^0 c) 45^0 d) 40^0

(vii) The mean of the data 4, 2, 8, 4, 6, 9, 10, 5 is: (1)

a) 6   b) 7   c) 4   d) 3

(viii) A pizza costs Rs 325.75. Five children share the cost equally. How much will each child have to pay for his/her share? (1)

a) Rs 62.15   b) Rs 65.15   c) Rs 64.75   d) Rs 68.75

(ix) The mode of the data 12, 14, 15, 15, 12, 17, 12, 12, 14, 12, 17, 20 is: (1)

a) 12   b) 14   c) 15   d) 17

(x) The weight of a person on the moon is one sixth of the weight on the earth. If a person weighs 54 kg on the earth, how much will he weigh on the moon? (1)

a) 4kg   b) 9kg   c) 7kg   d) 8kg

(1)

(xi) The number of medians in a triangle are: (1)
   a) 4   b) 1   c) 2   d) 3

(xii) The solution of the equation $8m-24= -30$ is: (1)
a) $m=3/4$ b) $m=-3/4$ c) $m=6/4$ d) $m=2/3$

(xiii) The supplement of 53^0 is   (1)
a)125^0 b) 127^0 c) 37^0 d) None of these

(xiv)The range of the data 135, 150, 139, 128, 151, 132, 146, 149, 143, 141 is: (1)

a) 23   b) 24   c)25   d) 26

(xv)Which of the following are lengths of a triangle?   (1)

a) AB=25cm , BC=19cm, AC= 14cm
b) PQ=8cm, QR=3cm, RP= 4cm
c) XY= 3cm, YZ=4cm, XZ =7cm
d) None of these

(xvi) If one angle in a linear pair is obtuse,then the other angle is:
a) Acute   b) Obtuse   c) Right   d) Straight   (1)

SECTION – B

Q2(i) Find the values of x and y in the following figure.   (1x3=3)
=3
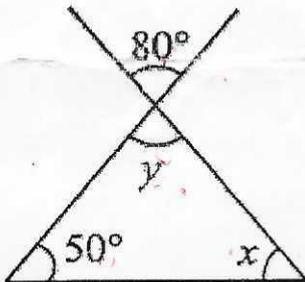
(ii) The following graph shows the number of flats in five buildings in a town. Read the bargraph and answer the following :
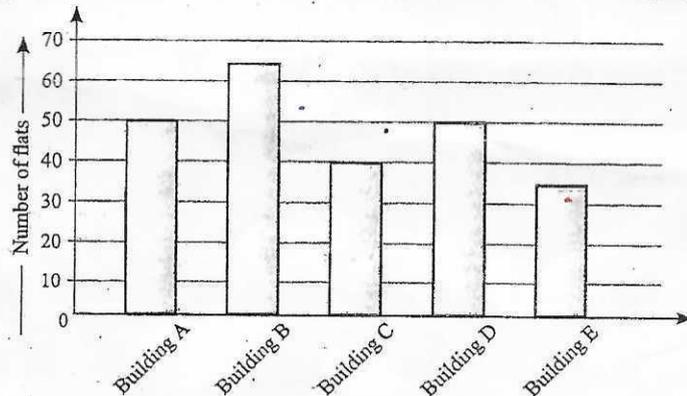
a) What is the difference between the number of flats in building A and building E?
b) What is the total number of flats in all five buildings?

(iii) Use the sign >,< 0r = in the blank to make the following statement true?
(-5) x (-7) x (-10) ....(-1200) ÷ (-4)

(2)