

## Solved Paper-1

### Class 10, Mathematics, SA-1

**Time: 3 hours**

**Max. Marks 90**

**General Instructions**

1. All questions are compulsory.
2. Draw neat labeled diagram wherever necessary to explain your answer.
3. Q.No. 1 to 11 are of objective type questions, carrying 1 mark each.
4. Q.No. 12 to 20 are of short answer type questions, carrying 2 marks each.
5. Q. No. 21 to 31 carry 3 marks each. Q. No. 32 to 38 carry 4 marks each.

#### SECTION - A

Q1) If  $\operatorname{cosec} \theta = 2x$  and  $\cot \theta = \frac{2}{x}$ , find the value of  $2(x^2 - \frac{1}{x^2})$ .

(a)  $\frac{1}{2}$

(b)  $\frac{1}{3}$

(c)  $\frac{1}{4}$

(d) 1

Q2) If  $\sec^2 \theta (1 + \sin \theta) (1 - \sin \theta) = k$ , then find the value of  $k$ .

(a) 1

(b) 2

(c) 3

(d) 4

Q3) In Figure 2,  $DE \parallel BC$  in  $\triangle ABC$  such that  $BC = 8$  cm,  $AB = 6$  cm and  $DA = 1.5$ . Find  $DE$ .



(a) 1 cm

(b) 2 cm

(c) 3 cm

(d) 4 cm

Q4) Write the median class of the following distribution:

| Classes | Frequency |
|---------|-----------|
| 0-10    | 4         |
| 10-20   | 4         |
| 20-30   | 8         |

# Grade 10 Mathematics June Exam 2014

**Minjie Lin**



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