## INDIAN SCHOOL SOHAR <br> PERIODIC TEST - 1 <br> MATHEMATICS

Date: 18-05-2017
Time: 40 mnts
Class: X
Marks: 20

General Instructions:

- All questions are compulsory.
- Section A comprises 3 questions of 1 mark each, Section B comprises 2 questions of 2 marks each, Section C comprises 3 questions of 3 marks each and Section D comprises 1 question of 4 marks.


## SECTION A

1. If $A, B$ are the zeros of $x^{2}+5 x+8$, then find the value of $A+B$.
2. For what value of $k$, do the equations $3 x-y=8$ and $6 x-k y=16$, represent coincident lines.
3. If the HCF of 65 and 117 is expressible in the form $65 p-117$, then find the value of $p$.

SET 2

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## SECTION A

1. If the HCF of 65 and 117 is expressible in the form $65 \mathrm{p}-117$, then find the value of $p$.
2. For what value of $m$, do the equations $3 x-y=8$ and $6 x-m y=16$, represent coincident lines.
3. If $\alpha, \beta$ are the zeros of $x^{2}-5 x+8$, then find the value of $\alpha+\beta$.

## SECTION B.

4. Find the value of " $m$ " if one zero of the polynomial $\left(m^{2}+4\right) x^{2}+65 x+4 m$ is reciprocal of the other.
5. Find the HCF of 867 and 255 by Euclid's method.

SECTION C
6. Prove that $2+3 \sqrt{5}$ is irrational.
7. Find the zeros of the polynomial $p(x)=4 \sqrt{3} x^{2}+5 x-2 \sqrt{3}$.
8. If $\alpha, \beta$ are zeros of a quadratic polynomial $\mathrm{f}(\mathrm{x})=\mathrm{kx}^{2}+4 \mathrm{x}+4$ such that $\alpha^{2}+\beta^{2}=24$, find the value of " k ".

## SECTION D

9. The ratio of incomes of two persons is 9:7 and the ratio of their expenditures is 4:3.If each of them saves Rs 200 per month, find their monthly incomes.

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## SECTION B.

4. Find the HCF of 870 and 225 by Euclid's method.
5. Find the value of " $p$ " if one zero of the polynomial $\left(p^{2}+4\right) x^{2}+65 x+4 p$ is reciprocal of the other.

## SECTION C

6. Prove that $5+3 \sqrt{2}$ is irrational.
7. If $\mathrm{A}, \mathrm{B}$ are zeros of a quadratic polynomial $\mathrm{p}(\mathrm{x})=\mathrm{mx}^{2}+4 \mathrm{x}+4$ such that $\alpha^{2}+\beta^{2}=24$, find the value of " $m$ ".
8. Find the zeros of the polynomial $p(y)=4 \sqrt{3} y^{2}+5 y-2 \sqrt{3}$.

## SECTION D

9. The ratio of incomes of two persons is 9:7 and the ratio of their expenditures is 4:3.If each of them saves Rs 200 per month, find their monthly incomes.
