INDIAN SCHOOL SOHAR PERIODIC TEST - 1 MATHEMATICS

Date: 18-05-2017 Class: X Time: 40mnts 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 $x^2 + 5x + 8$, then find the value of A+ B.
- 2. For what value of k, do the equations 3x y = 8 and 6x ky = 16, represent coincident lines.
- 3. If the HCF of 65 and 117 is expressible in the form 65p 117, then find the value of p.

SET 2

INDIAN SCHOOL SOHAR PERIODIC TEST - 1 MATHEMATICS

Date: 18-05-2017 Class: X

Time: 40mnts 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 the HCF of 65 and 117 is expressible in the form 65p 117, then find the value of p.
- 2. For what value of m, do the equations 3x y = 8 and 6x my = 16, represent coincident lines.
- 3. If α , β are the zeros of $x^2 5x + 8$, then find the value of $\alpha + \beta$.

SECTION B.

- 4. Find the value of "m" if one zero of the polynomial $(m^2 + 4) x^2 + 65x + 4m$ 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 $p(x) = 4\sqrt{3}x^2 + 5x 2\sqrt{3}$
- 8. If α , β are zeros of a quadratic polynomial $f(x) = kx^2 + 4x + 4$ 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.

XXXXXXXX ----- THE END ----- XXXXXXXX

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 $(p^2 + 4) x^2 + 65x + 4p$ is reciprocal of the other.

SECTION C

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

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.

XXXXXXXX ---- THE END ---- XXXXXXXX