INDIAN SCHOOL SOHAR
FORMATIVE ASSESSMENT- 2
MATHEMATICS

Date: 09-08-2015   Time: 40mnts

Class: IX   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.
- Section D comprises 1 question of 4 marks.

SECTION A

1. If two adjacent angles on a straight line are in ratio 6:3, then find the measure of greater angle?

2. If $\angle 1 = \angle 4$, $\angle 3 = \angle 2$ and $\angle 2 = \angle 4$ then is $\angle 1 = \angle 3$. Give reason.

3. One-third of an angle is equal to its supplement. Find the measure of this angle.

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SECTION A

1. If two adjacent angles on a straight line are in ratio 4:6, then find the measure of smaller angle?

2. If $\angle 1 = \angle 4$, $\angle 3 = \angle 2$ and $\angle 2 = \angle 4$ then is $\angle 1 = \angle 3$. Give reason.

3. One-half of an angle is equal to its supplement. Find the measure of this angle.

SECTION B

4. If C is the mid-point of $\overline{AB}$ .Prove that every line segment has one and only one mid-point.

5. Factorise $27p^3 - \dfrac{1}{216} - \dfrac{9}{2}p^2 + \dfrac{1}{4}p$

SECTION C

6. If $p = 2 - a$, then prove that $a^3 + 6ap + p^3 - 8 = 0$.

7. Prove that sum of the angles of a triangle is 180^0.

8. Ray OC stands on the line AB, ray OL and ray OM are angle bisectors of $\angle AOC$ and $\angle BOC$ respectively. Prove that $\angle LOM = 90^0$.

SECTION D

9. If $(x + \dfrac{1}{x}) = 5$, then evaluate $x^6 + \dfrac{1}{x^6}$

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SECTION B

4. If R is the mid-point of $\overline{PQ}$ .Prove that every line segment has one and only one mid-point.

5. Factorise $27m^3 - \dfrac{1}{216} - \dfrac{9}{2}m^2 + \dfrac{1}{4}m$

SECTION C

6. If $q = 2 - c$, then prove that $q^3 + 6qc + c^3 - 8 = 0$.

7. Prove that sum of the angles of a triangle is 180^0.

8. Ray OP stands on the line AB, ray OR and ray OL are angle bisectors of $\angle AOP$ and $\angle BOP$ respectively. Prove that $\angle ROL = 90^0$.

SECTION D

9. If $(z + \dfrac{1}{z}) = 5$, then evaluate $z^6 + \dfrac{1}{z^6}$

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