

**INDIAN SCHOOL SOHAR**  
**SUMMATIVE ASSESSMENT 1 (2015 – 2016)**  
**MATHEMATICS**

STD VI  
10/09/2015

Marks: 60  
Time: 2 Hours

**General Instructions:**

All questions are compulsory. The question paper consists of 24 questions divided into four sections A, B, C & D. Section A comprises 6 questions each carries 1 mark, Section B comprises 6 questions of 2 marks, Section C comprises 6 questions of 3 marks & Section D comprises 6 questions of 4 marks.

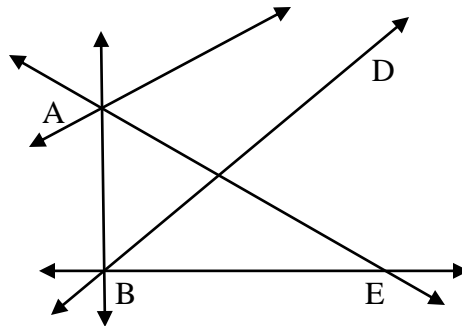
Do the calculations in the working column. Give necessary formulae and steps wherever required.

**SECTION A**

1. Choose the Roman numeral corresponding to 80.  
 (a) XXC      (b) LXXX      (c) XC      (d) VIIIX
2. Which of the following is a twin prime?  
 (a) 42, 44      (b) 29, 31      (c) 6, 8      (d) 3, 7
3. Predecessor of 0 is \_\_\_\_\_.  
 (a) 1      (b) 0      (c) none of these      (d) -1
4. If any two sides of a triangle are equal, then the triangles are called \_\_\_\_\_.  
 (a) Scalene triangle      (b) Equilateral triangle      (c) Isosceles triangle      (d) Right triangle
5. The line segment joining two opposite vertices of a polygon is called \_\_\_\_\_.  
 (a) Side      (b) angle      (c) diagonal      (d) perpendicular
6.  $2,00,000 + 5,000 + 800 + 6$  is equal to :  
 (a) 2,05,806      (b) 2,05,086      (c) 2,05,086      (d) 2,50,806

**SECTION B**

7. In the given figure: name the lines
  - i) Intersecting at A
  - ii) Intersecting at B



8. Find the product by suitable arrangement:  $265 \times 17 + 265 \times 3$ .
9. Find the greatest number which exactly divides 48, 64 and 72.
10. A factory produces 2840 metres of clothes per day. How many metres of clothes will it produce in one year?

11. Represent the integers -5 and 7 on the number line.
12. How many right angles have you turned through if you stand facing
  - i) North and turn clockwise to face west
  - ii) South and turn anti-clockwise to face east.

### **SECTION C**

13. Write the name of angles: (a)  $180^\circ$  (b)  $145^\circ$  (c)  $350^\circ$
14. Write the number of faces, edges and vertices of (a) Cube (b) Square pyramid.
15. Using integers express the following:
  - i) A loss of Rs. 500
  - ii) 1200 m above sea level
  - iii)  $15^\circ\text{C}$  below  $0^\circ\text{C}$ .
16. Find the smallest natural number which when divided by 16, 24, 40 leaves a remainder 8 in each case.
17. A sandwich costs Rs. 15 and a cold drink costs Rs.35. You take a sandwich and a cold drink every day for 6 days. Find the total amount spent in 6 days.
18. Write the expression for each of the following using brackets:
  - a) Divide the difference of eighteen and three by five.
  - b) Sixteen multiplied by the sum of seven and five.
  - c) Seventy five added to five times the sum of eight and two.

### **SECTION D**

19. Draw a circle and mark : i) sector ii) segment iii) arc.
20. In 2001, the total forest area of a state was 7,652 sq. m. The state government started a campaign to increase the forest area. In 2011, it was found that the total forest area of the state has reached 10,085 sq. m.
  - i) Write 7,652 and 10,085 in expanded form.
  - ii) By how many square metre the forest area has increased?
  - iii) Do you think planting more trees is good for our environment? Why?
21. From the data given, identify the type of triangles:
  - i) In  $\triangle ABC$ ,  $AB = 5\text{cm}$ ,  $BC = 5\text{cm}$ ,  $CA = 5\text{cm}$
  - ii) In  $\triangle PQR$ ,  $PQ = QR = 4\text{cm}$ ,  $\angle Q = 90^\circ$
  - iii) In  $\triangle XYZ$ ,  $\angle X = 50^\circ$ ,  $\angle Y = 60^\circ$ ,  $\angle Z = 70^\circ$ .
  - iv) In a triangle LMN,  $\angle M = 130^\circ$ .
22. Express the following numbers 840 and 1560 as the product of their prime factors and find their HCF.
23. What fraction of a clockwise revolution does the hour hand of a clock turns through, when it goes from:
  - i) 12 O' Clock to 6 O' Clock.
  - ii) 5 O' Clock to 8 O' Clock.
  - iii) 4 O' Clock to 1 O' Clock
  - iv) 1 O' Clock to 7 O' Clock.
24. Using the digits 2, 6, 3, 1, 4, 7 without repetition, make the greatest and smallest 6- digit numbers. Estimate the numbers by rounding off to nearest thousands and find their sum.

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