Name of Student:_____ Roll No.: _____ Maths/Class-7/EM

Annual Assessment - March 2017
Mathematics
Class-7

Maximum Marks: 80 Time: 150 Minutes

Instructions:

- All questions are compulsory.
- Marks are given in front of each question.

1. 2.7 ÷100 can be written as 1
   (a) 0.27 (b) 2.70
   (c) 270 (d) 0.027
2. Additive inverse of 10 is 1
   (a) $\frac{1}{10}$ (b) -10
   (c) 0 (d) 100
3. The value of m for the following eq. 1
   2m-7 = 3 is
   (a) 10 (b) -10
   (c) 5 (d) - 4
4. When a die tossed the probability to get 8 is 1
   (a) 1 (b) 0
   (c) $\frac{1}{8}$ (d) $\frac{1}{2}$
5. Between two congruent angles, one has a measure of 70°, the measure of other angle is ……. 1
   (a) 110° (b) 30°
   (c) 70° (d) 20°
6. Which of the following do not represent the rational number $\frac{2}{3}$ 1
   (a) $\frac{6}{9}$ (b) $\frac{3}{2}$
   (c) $\frac{4}{6}$ (d) $\frac{10}{15}$
7. The greatest angle in right angle triangle is 1
   (a) 60° (b) 70°
   (c) 100° (d) 90°
8. The perimeter of rectangle is 1
   (a) side × side (b) length × Breadth
   (c) 2[length + breadth] (d) 4 × side

9. $-\frac{3}{5} \div 2$ can be written a 1

(a) $\frac{-6}{10}$ (b) $\frac{-6}{-5}$

(c) $\frac{-3}{10}$ (d) $\frac{6}{5}$

10. Half the sum of the numbers x and y can be written as. 1

(a) $\frac{x}{2}$ +y (b) $\frac{x+y}{2}$

(c) x+ $\frac{y}{2}$ (d) 2x+y

11. 2x+3y is …….. 1

(a) Trinomial (b) Monomials

(c) binomials (d) None

12. 1000 cm^2 can be written as 1

(a) 0.1 m (b) 10 m^2

(c) 0.1 m^2 (d) 10 m

13. English alphabet 'A' has reflection symmetry about- 1

(a) a vertical mirror (b) a horizontal mirror

(c) both vertical and horizontal mirror (d) None

14. How many faces are in cuboids? 1

(a) 3 (b) 4

(c) 5 (d) 6

15. The number of lines of symmetry for a square are ……. 1

(a) 1 (b) 4

(c) 2 (d) 3

16. How much less is 28 km. than 42.6 km? 2

17. Write down a pair of integers whose sum is -7 2

18. Solve the following equation $\frac{5}{2y} = \frac{25}{4}$ 2

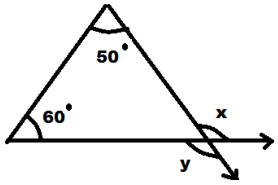
19. Solve : 2

$3\frac{1}{5} \div 1\frac{2}{3}$

20. The sum of Eight times a number and 2 is 50 find the number 2

21. Find 75 % of 1 kg 2

22. Find the value of the unknown angles x and y in the following diagrams 2



23. Draw a line AB and draw a perpendicular to AB taken at any point C on it 2

24. Simplify 2

$(-4)^3$

25. What other name can you give to the line of symmetry of 2

(a) an isosceles triangle? (b) a circle?

26. Find the mode and median of the data: 3

13, 16, 12, 14, 19, 12, 14, 13, 14

27. Find the product, using suitable properties: 3

$625 \times (-35) + (-625) \times 65$

28. Δ DEF $\cong \Delta$ BCA write the parts of Δ BCA that correspond to 3

(a) $\angle E$

(b) $\overline{FD}$

(c) $\overline{DE}$

29. Δ ABC is right angled at C. If AC = 5 m. and BC= 12 m. find the length of AB 3

30. Draw two triangles of equal areas such that 3

(i) The triangle are congruent

(ii) The triangle are not congruent

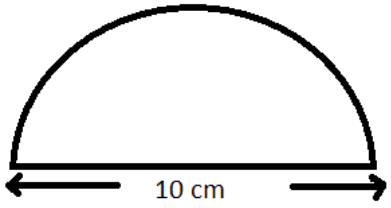
31. What rate gives Rs 280 as interest on a sum of Rs 5600 in 2 Years? 3

32. Draw the number line and represent the following rational number on it 3

(i) $\frac{3}{5}$ (ii) $\frac{8}{5}$ (ii) $\frac{9}{5}$

33. Construct Δ DEF with DE = 4 Cm, EF = 5 Cm, and m $\angle DEF = 60°$ 3

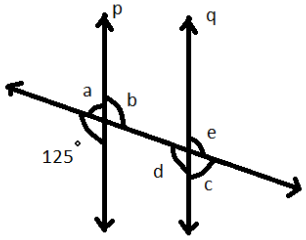
34. Find the perimeter of the adjoining figure, which is a semicircle including its diameter (Take π = 3.14) 3



35.Subtract: 3

$2Pq+3-4P^2$ from $5P^2+3q^2-Pq-4$

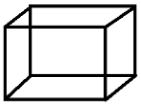
36. In the adjoining figure P//q. Find the unknown angles a, b, c, d, and e 5



37. Simplify: 5

$$\frac{25\times 2^3 \times t^8 \times b^5}{10^3 \times t^2 \times b^5}$$

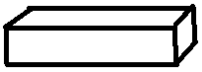
38. Match the nets with appropriate solid 5

(i) 

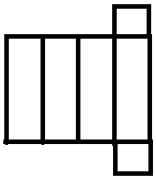
(ii) 

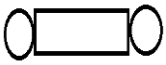
(iii) 

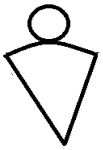
(iv) 

(V) 

(a) 

(b) 

(c) 

(d) 

(e)