Class-7 Date : 12.9.14 ST. XAVIER'S SENIOR SECONDARY SCHOOL, DELHI-54 SUMMATIVE ASSESSMENT 1 MATHS

Marks: 60 Time –1hr. 40 mins.

(2)

(2)

Note: Answer all the questions on the answer sheets. PART - B

1) Find the value of `w' if $\frac{3}{-5} = \frac{w}{15}$ (2)

2) Convert
$$\frac{13}{6}$$
 into decimal and state whether it is terminating or non-terminating decimal? (2)

- 3) Find the product of $0.04 \times 0.7 \times 2.2$
- 4) The sum of two rational numbers is $\frac{-3}{8}$. If one of them is $\frac{3}{16}$, find the other rational number. (2)
- 5) Express $\frac{-8}{125}$ in power notation form.

a. $[5^{-1} \times 2^{-1}]^2$

6) Simplify:

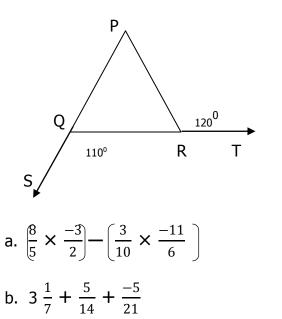
a.
$$\left(\frac{-2}{3}\right)^3 \times \left(\frac{-3}{8}\right)^3$$
 b. $\left(\frac{11}{13}\right)^3 \div \left(\frac{11}{13}\right)^5$ (2x2)

7) Find the product of
$$\frac{16}{-5} \times \frac{3}{8} \times \frac{10}{3}$$
 (2)

8) Simplify

b.
$$\frac{(-4)^5 \times (-3)^4}{(-4)^3 \times (-4)^2}$$
 (3×3)

- 9) Find 'a' if $8 \times 2^{a+2} = 2^5$ (3)
- 10) A shirt requires 2.7m of cloth. How many such shirts can be made from a piece of cloth of 48.6m length?(3)
- 11) Calculate the magnitude of the angles marked as x and \mathcal{Y} . Give reasons also. $(3\frac{1}{2})$

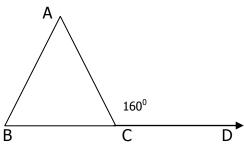


12) Simplify

Cont'd.....2/

 $(3\frac{1}{2} \times 3\frac{1}{2})$

- 13) A ladder of length 10m is placed against the window on the wall in such a way that its foot is at a distance of 8m away from the wall. Find the height of the wall from the top of the ladder and the ground. $(3\frac{1}{2})$
- 14) Two poles of height 9m and 14m stand upright on a plane ground. If the distance between their feet is 12m, find the distance between their tops.
- 15) In the figure given below x: y =3:5 and $\angle ACD = 160^{\circ}$. Find the value of x, y and z. $(3\frac{1}{2})$ Give reasons also.



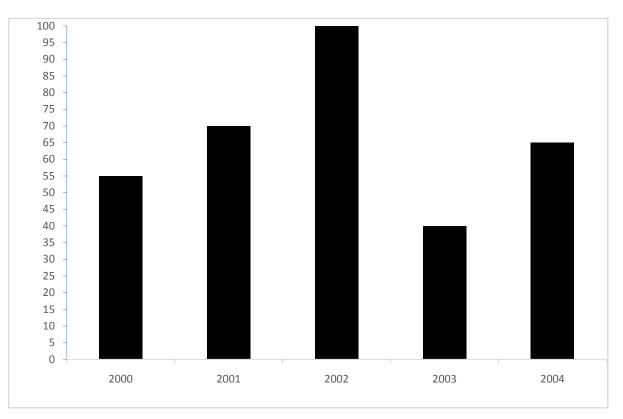
16) Find the Mean, Median and Range of the following group.

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5, 6, 7, 6, 2, 6, 4, 2, 8, 4 (2+2+1=5)
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17) Read the graph and answer the following questions.

(6)

 $(3\frac{1}{2})$



- 1. Give a suitable title to the bar graph.
- 2. In which year was the production maximum?
- 3. In which year was the production minimum?
- 4. Find the total production of food grains in 2001, 2002and 2003.
- 5. How many years of production (of food grains) is shown in the bar graph?
- 6. How much is the production of food grains (in million tonnes) in 2001?

ST. XAVIER'S SENIOR SECONDARY SCHOOL, DELHI-54 Class - 7 SUMMATIVE ASSESSMENT 1 Marks: 20 Date: 12.9.14 MATHS Time – 20 mins. _Cl. & Sec._____ Roll No. _____ Name _____ Note: All the answers should be done on the question paper itself. MCQ paper will be collected after 30 minutes. **MULTIPLE CHOICE QUESTIONS** PART - A Tick the correct answers 1. The standard form of $\frac{75}{-225}$ is_____. b) $\frac{1}{2}$ a) $\frac{-1}{3}$ c) $\frac{-15}{45}$ 2. $\frac{-7}{5} - \frac{3}{10} =$ _____ a) $\frac{-11}{10}$ c) $\frac{-17}{10}$ b) -1 3. Multiplicative inverse of $\frac{-3}{7}$ is_____ c) $\frac{7}{-3}$ a) $\frac{3}{7}$ b) $\frac{7}{3}$ 4. 2.13 × 0.6 =____ b) 12.78 a) 1.278 c) 127.8 5. 8754.5 ÷ 1000 =_____ a) 0.87545 b) 8754500 c) 8.754 6. The value of $(-1)^{121}$ is _____ a) 1 b) 0 c) -1 7. $\frac{-8}{15} \times \frac{-3}{4} =$ _____ a) $\frac{2}{11}$ b) $\frac{2}{5}$ c) $\frac{-2}{5}$ 8. Express $\frac{-2}{7}$ as a rational number with denominator (-35)_____ c) $\frac{-10}{-35}$ a) $\frac{-10}{35}$ b) $\frac{10}{-35}$ Cont'd...2/-

9. In a right angled triangle, one acute angle is 30°, then the other acute angle is _____

a) 70° b) 60° c) 50°
10.
$$\frac{-9}{11} \div \frac{3}{22} = \underline{\qquad}$$
 b) $\frac{-27}{246}$ c) $\frac{12}{22}$
11. $(3^{\circ} + 4^{\circ}) \times 7^{\circ} = \underline{\qquad}$ b) 1 c) 0
12. In an isosceles triangle, the angles opposite to equal sides are $\underline{\qquad}$.
a) Obtuse b) acute c) equal
13. The mode of the given data : 11, 12, 16, 17, 12, 19, 12 is $\underline{\qquad}$.
a) 12 b) 17 c) 7
^{14.} The value $[\{(\frac{3}{2})^2\}^3]^5 = \underline{\qquad}$
a) $(\frac{3}{2})^{30}$ b) $(\frac{3}{2})^{6+5}$ c) $(\frac{2}{3})^{30}$
15. The sum of the lengths of two sides of a triangle is $\underline{\qquad}$ than its third side.
a) smaller b) greater c) equal
16. If one of the exterior angle of a triangles is 90° and the two interior opposite angles are equal to each other than the measure of each of these angles are $\underline{\qquad}$.
a) $45^{\circ},45^{\circ}$ b) $60^{\circ}, 30^{\circ}$ c) $40^{\circ}, 50^{\circ}$
17. A triangle in which all the sides are unequal in length is called a / an $\underline{\qquad}$.
a) $(\frac{-5}{9})^{3} \times (\frac{-5}{9})^{8} = \underline{\qquad}$
a) $(\frac{-5}{9})^{11}$ b) $(\frac{-5}{9})^{5}$ c) $(\frac{-5}{9})^{-5}$
19. Pythagoras theorem is applied in $\underline{\qquad}$.
a) acute angled triangle b) obtuse angled triangle c) right angled triangle
20. $[\frac{-2}{5}] = \underline{\qquad}$
a) $\frac{2}{5}$ b) $\frac{-2}{5}$ c) $\frac{5}{2}$