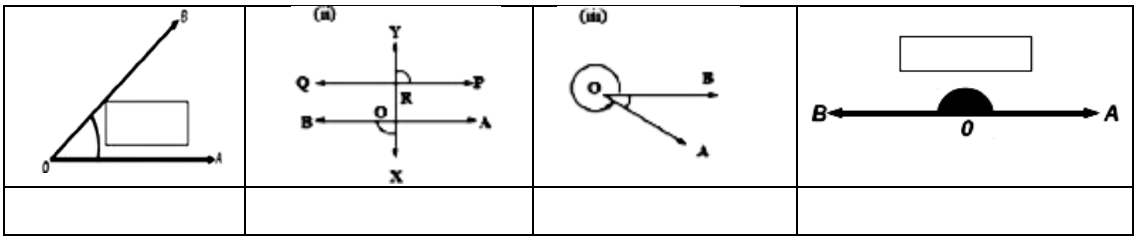
ADARSHA VIDYALAYA. HUNASHYAL, P.B

NAME :- **ROLL.NO:-** **Total Marks:- 20**

CLASS:–VIII **UNIT TEST 1:- x^2 and $\sqrt{x}$, Axioms and Postulates SUBJECT:- Mathematics**

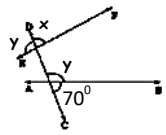
I. Write True or False *(Read carefully)* ½ X8=4

1. Things which are equal to the same things are equal to one another –Axiom-4 :**ANS**_____
2. If equals are subtracted from equals, then the remainders are equal –Postult-3:**ANS**_____
3. All right angles are congruent. -Postulate-4:**ANS:-**_____
4. The whole is greater than the part. –Axiom-5 :**ANS**_____
5. Name the followings



6. Define Playfair's postulate. **1 marks**

ANS:-

7. 

Find x. **2 marks**

ANS:-

8. Prove Proposition 1. Let AB be a straight line and OC be a ray standing on the line AB. Then ∠BOC + ∠COA =180^0. **3 marks**

ANS:-

Answer the Following: **½X4=2**

9. I. Express the following statements mathematically

(I) square of 4 is 16	(ii) square of 8 is 64	(iii) square of 15 is 225.	iv) square of 21 is 441,

ANS:-

10. 2.Find the square root of the following numbers by factorization: **1X4=4**

(i) 196	(ii) 256	(iii) 1156	(vi) 13225..
ANS:-			

11. Simplify the followings **1X2=2**

i) $\sqrt{\mathbf{361}} + \sqrt{\mathbf{144}} + \sqrt{\mathbf{289}}$

ii) $\sqrt{\mathbf{225}} - \sqrt{\mathbf{169}}$

ANS:-

Answer the Following: **2X1=2**

12. Find qube root of the following by prime factorization. **15625**.

ADARSHA VIDYALAYA. HUNASHYAL, P.B

ANSWER PAPER

CLASS:–VIII UNIT TEST 1:- x^2 and $\sqrt{x}$, Axioms and Postulates SUBJECT:- Mathematics

I. Write True or False *(Read carefully)* **½ X8=4**

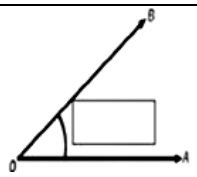
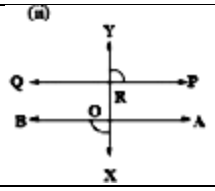
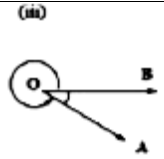
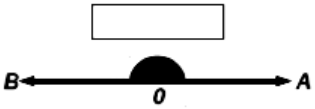
13. Things which are equal to the same things are equal to one another –Axiom-4 :**ANS**_____

14. If equals are subtracted from equals, then the remainders are equal –Postult-3:**ANS**_____

15. All right angles are congruent. -Postulate-4:**ANS:-**_____

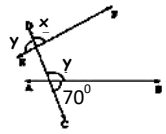
16. The whole is greater than the part. –Axiom-5 :**ANS**_____

17. Name the followings

18. Define Playfair's postulate. **1 marks**

ANS:-

19.  Find x. **2 marks**

ANS:-

20. **P.T** If **AB** is a straight line and **OC** be a ray standing on the line **AB.** Then **∠BOC + ∠COA =180⁰.**

Ans:- **3 marks**

Answer the Following: **½X4=2**

21. I. Express the following statements mathematically

(I) square of 4 is 16	(ii) square of 8 is 64	(iii) square of 15 is 225.	iv) square of 21 is 441,

ANS:-

22. 2.Find the square root of the following numbers by factorization: **1X4=4**

(i) 196	(ii) 256	(iii) 1156	(vi) 13225..
ANS:-			

23. Simplify the followings **1X2=2**

ii) $\sqrt{\mathbf{361}} + \sqrt{\mathbf{144}} + \sqrt{\mathbf{289}}$

ii) $\sqrt{\mathbf{225}} - \sqrt{\mathbf{169}}$

ANS:-

Answer the Following: **2X1=2**

24. Find qube root of the following by prime factorization. **15625**.