

EVERWIN VIDHYASHRAM

01.07.2019

MATHS TT

Marks: 25

STD: X [MAJ, EXE, AWE, CAP]

I. Answer the following:

4x1=4

1. If  $\sec A = \underline{\hspace{2cm}}$
2.  $\sec 0^\circ = \operatorname{cosec} 90^\circ = \underline{\hspace{2cm}}$
3.  $\sin \theta = \frac{4}{3}$  for some angle  $\theta$ . Justify.
4.  $\sin 2A = 2 \sin A$  is true when  $A = \underline{\hspace{2cm}}$

II. Answer the following:

2x2=4

5. If  $\tan A = \frac{1}{\sqrt{3}}$ , In triangle ABC, right angled at B, then find the value of  $\cos A \cos C - \sin A \sin C$ .
6. State whether the following are true or false and justify it i) The value of  $\tan A$  is always less than 1.  
ii)  $\cot A$  is the product of  $\cot$  and  $A$ .

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III. Answer the following:

3x3=9

7. Given  $\tan A = \frac{4}{3}$ , find the other T-Ratios of the angle A.
8. Express  $\sin 67^\circ + \cos 75^\circ$  in terms of t ratio of angles between  $0^\circ$  and  $45^\circ$ .
9. If  $\angle A$  and  $\angle B$  are acute angles such that  $\cos A = \cos B$ , then show that  $\angle A = \angle B$ .

IV. Solve:

4x2=8

10. If  $\tan (A+B) = \sqrt{3}$  and  $\tan (A-B) = \frac{1}{\sqrt{3}}$   
 $0^\circ < A + B \leq 90^\circ, A > B$ , find  $A$  and  $B$ .
11. In  $\Delta PQR$ , right angled at Q,  $PR+QR=25\text{cm}$  and  $PQ=5\text{CM}$ , Determine the values of  $\sin P$ ,  $\cos P$  and  $\tan P$ .

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ENGLISH TT

Marks: 25

STD: X [DAZ, CUTE, BLISS]

I. Answer in short:

5x2=10

1. What message does the poet want to convey through the poem- 'Tiger in the zoo'?
2. Is it safe to allow tigers to live in their natural habitat these days?
3. How does the tiger behave at the night?
4. Describe the movement of tiger in the cage and in the wild.
5. Where is the strength of the tiger and how does he treat and how does he treat the visitors?

II. Explain with reference to the context:

5x1=5

“ He should be snarling around houses  
At the jungle’s edge,  
Baring his white fangs, his claws,  
Terrorising the village!”

1. What do you mean by snarling around houses’?
2. What is the poetic device used in the first line?
3. How does he terrify the villagers?
4. Where does he roam?
5. Name the poet.

III. In the following passage one word has been omitted in each line. Write the missing word along with the word that comes before and after it:

5x1=5

	B	M	A
a) Alexander dream conquering			
b) the whole world. the age of			
c) twenty six, he conquered whole			
d) of Syria, Egypt and Persia just			
e) four years. He pleased and marched forward.			

IV. Look at the words and phrases given and rearrange them to form meaningful sentences: 5x1=5

- a) has become / in big cities / quite a / driving / tough job.
- b) vehicles on the roads / are / day- by- day / increasing / the number of
- c) becomes worse / when we / the traffic rules,/ do not follow / the situation
- d) also learn / our vehicles / at the / to park/ proper place / we should.
- e) add / of the / they / to the beauty / surroundings.