



MATHS

BOOKS - JEEVITH PUBLICATIONS

MATHS (KANNADA ENGLISH)

MATHEMATICAL REASONING

One Marks Questions With Answers

1. Which of the following sentences are statements ?

(i) There are 32 day in a month

(ii) Logic is interesting

(iii) Today is a rainy day



Watch Video Solution

2. Give two example of sentences which are not statements . Give reasons for the answers.

(i) How old are you

(ii) May I come in sir :



Watch Video Solution

3. Write the negation of the following

(i) Bangalore is the capital of karnataka

(ii) $\sqrt{3}$ is not irrational

Every natural number is an integer



[Watch Video Solution](#)

4. Write the component statements of the following

(i) 2 is a prime number or it is odd

(ii) 20 is divisible by 5 and 10



[Watch Video Solution](#)

5. Identify the quantifiers in the following

(i) There exists a complex number for each real number

(ii) for every real number x is less than $x+2$



[Watch Video Solution](#)

6. State whether the Or' used in the following statements is exclusive or " inclusive Give reason for your answer.

(i) All intergers are positive or negative

(ii) To apply for a driving licence , you should have a ration card or a passport .



[Watch Video Solution](#)

7. Re - write the following statement with " if then " in five different ways conveying the same meaning . If a number is a multiple of 10 then it is a multiple of 5



[Watch Video Solution](#)

8. Write the converse and contrapositive of the statement " If x is a prime number then x is odd "



[Watch Video Solution](#)

9. Check the validity of the statements

(i) 200 is multiple of 4 and 5

(ii) 240 is a multiple of 3 or 5



[Watch Video Solution](#)

Five Marks Question With Answers

1. By giving a counter example , show that the statement " For any real number a and b $a^2 = b^2 \Rightarrow a = b$ is false



[Watch Video Solution](#)

2. Verify by the method of contradiction that $\sqrt{7}$ is irrational number



[Watch Video Solution](#)

3. Verify by the method of contradiction that $\sqrt{2}$ is irrational .



Watch Video Solution