

**KENDRIYA VIDYALAYA MAHABUBABAD**  
**WINTER BREAK HOLIDAY HOMEWORK (2019-20)**

**CLASS IX**

**ENGLISH**

1. After going through the chapter " Reach to the top", what moral lessons you have derived ?
2. Write a short essay on one of your travel experiences taking hint from the chapter "Katmandu"
3. What moral lessons you derive from the chapter " The last leaf".
4. Make 30 sentences using prepositions – on, to, too, of, off, at, underneath, beneath, beside, besides, from, at.

**SANSKRIT**

- i) "मम भ्राता " विषयस्य उपरि पञ्च वाक्यानि लिखत ।
- ii) संपूर्ण पाठस्य शब्दार्थ अभ्यासः च पठतु ।
- iii) सुभाषितानि पठित्वा कंठस्थ करोतु ।
- iv) द्व पृष्ठः सुलेखं लिखतु ।

**HINDI**

- 1 -बढती हुई मंहगाई पर एक अनुच्छेद लिखिए जो लगभग 150 शब्दों से कम न हो ।
- 2 - पाठ पुस्तिका क्षितिज भाग 1 के पाठ 6,14,15, माटीवाली मेरे संग की औरतें तक के प्रश्न -उत्तर याद कीजिए ।

**MATHEMATICS**

1. Construct a triangle XYZ in which  $\angle Y = 30^\circ$ ,  $\angle Z = 90^\circ$  and  $XY + YZ + ZX = 11$  cm.
2. Construct a triangle ABC in which  $BC = 7$ cm,  $\angle B = 75^\circ$  and  $AB + AC = 13$  cm.
3. Prove that Parallelograms on the same base and between the same parallels are equal in area.
4. Show that a median of a triangle divides it into two triangles of equal areas.
5. Find the area of a triangle two sides of which are 18cm and 10cm and the perimeter is 42cm.
6. Sides of a triangle are in the ratio of 12 : 17 : 25 and its perimeter is 540cm. Find its area.
7. A park, in the shape of a quadrilateral ABCD, has  $\angle C = 90^\circ$ ,  $AB = 9$  m,  $BC = 12$  m,  $CD = 5$  m and  $AD = 8$  m. How much area does it occupy?

8. Find the area of a quadrilateral ABCD in which  $AB = 3$  cm,  $BC = 4$  cm,  $CD = 4$  cm,  $DA = 5$  cm and  $AC = 5$  cm.
9. If two equal chords of a circle intersect within the circle, prove that the segments of one chord are equal to corresponding segments of the other chord.
10. A circular park of radius 20m is situated in a colony. Three boys Ankur, Syed and David are sitting at equal distance on its boundary each having a toy telephone in his hands to talk each other. Find the length of the string of each phone.
11. The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.

### SCIENCE

Write a note on Neil Bohr. Explain its model of structure of an atom.

2. Differentiate between kinetic energy and potential energy.
3. Explain the different types of sound waves?
4. Write causes and effects of global warming?

### SOCIAL SCIENCE

Q.1 Write different schemes launched by the government to ensure food security in India and make a comparative study or data wise analysis on the Indian states where food security is more and less?

Q.2 Collect at least five news of violation of human fundamental rights and analyze the same?

Q.3 by using Indian political map locates the following:-

1. Major national parks in India.
2. All bio reserves of India.

Q.4 Explain the role of woman's in the following:-

1. French revolution
2. In Germany during hitlers regime

### IT

- 1) Draw the Key board and explain the keys?
- 2) Create a your own gmail id ?
- 3) What is an operating system?