SOUTH POINT HIGH SCHOOL
HOME WORK FOR SUMMER VACATION (2019-2020)
CLASS IX

ENGLISH

1. Describe the nature of the doubt that crosses the poet's mind as he chooses his path in the wood in the poem "The Road Not Taken" ? (2)
(Word Limit : 30 – 40 words)

2. Keeping in mind the plight of our furry and feathered friends during the hot summer months, write an article in 100 to 150 words suggesting steps that would provide relief to their suffering. (8)

BENGALI

একজন অবসরপ্রাপ্ত শিক্ষক তাঁর প্রাপ্য অর্থ দান করলেন সেই বিদ্যালয়ের উন্নতির জন্য – এই বিষয় অবলম্বনে সংবাদপত্রে প্রকাশের জন্য একটি প্রতিবেদন রচনা করো। (৮০ – ১০০ শব্দের মধ্যে)

ছুটির কাজের জন্য নির্দিষ্ট খাতা : Note Book 2

HINDI

स्वास्थ्य में अपेक्षित सुधार लाने के लिए नित्य व्यायाम करने की प्रेरणा देते हुए अपने छोटे भाई को एक पत्र लिखिए।

ECONOMICS (to be done in Economics Note Book)

Study the picture 1.7 given in Page No.8 of the NCERT Text Book and discuss the conditions of the agricultural labourers.

POLITICAL SCIENCE (to be done in Political Science Note Book)

1. What is 'Democracy' ?
2. Enumerate the main features of democracy.

GEOGRAPHY (to be done in the Map Practice Book by R. K. Jain)

1. In the Map Practice Book by R. K. Jain, complete the maps given in pages 8, 12, 14, 16 and 18.
[To be submitted on 12th June]

SCIENCE

Chemistry

1. Why does the aroma of hot cooked food reach us while we pass by a restaurant ?
2. Name the physical states of water that co-exist at 373 K.
3. Arrange the following in increasing order of force of attraction between their respective constituent particles :
carbon dioxide, water, honey, sugar
4. A glass tumbler containing hot water is kept in freezer compartment of a refrigerator (temperature $< 0^0C$). You measure the temperature of the content of the tumbler and represent the change in its temperature as a function of time, draw the temperature vs time graph for this process.
5. Write the S.I unit of Pressure and Density.

Biology

1. Draw and label the different parts of

   a. plant cell

   b. animal cell

Physics

1. Using following data, draw the displacement-time graph for a moving object :

Time (s)	0	2	4	6	8	10	12	14	16
Displacement (m)	0	2	4	4	4	6	4	2	0

   Use this graph to find average velocity for first 4s, for next 4s and for last 6s.

2. The displacement of a moving object in a given interval of time is zero. Would the distance travelled also be zero ? Justify your answer.

MATHEMATICS

1. Find five rational numbers between $\frac{\sqrt{3}}{7}$ and $\frac{\sqrt{10}}{5}$.

2. Geometrically plot $\sqrt{15}$ on the number line .

3. Express $32.02\overline{15}$ in the form of $\frac{p}{q}$.

4. Visualize $\frac{22}{7}$ on the number line up to 4 places of decimal by successive magnification method.

5. Give one example of each of the following :

   (a) The product of two non-integer rational numbers becomes a natural numbers.

   (b) Two composite numbers which are prime to each other.

   (c) An irrational number which is not in the form of $\sqrt{\frac{p}{q}}$ (p, q are integers).

6. AB and CD are two parallel lines. PQ and PR, two transversal intersects AB at the points E, F and CD at the points G, H respectively. IF $\angle BFH = 55^\circ$ and $\angle EGC = 110^\circ$, then find $\angle QPR$.

7. PQ and RS are two parallel lines. OAB is such a triangle that A lies on PQ and B lies on RS, whereas O lies in-between PQ and RS. If $\angle PAO = 30^\circ$ and $\angle AOB = 50^\circ$, find $\angle OBR$.

8. At sharp 3 p.m. the hour hand and the minute hand of a clock makes a right angle with each other. At what time will they form the next right angle?