

# DAV Mukhayamantri public school sakariya

## HOLIDAY ASSIGNMENT 2020-21

### CLASS – 10<sup>th</sup>

### SUB – MATHEMATICS

1. Make an assignment for Similar Triangle in which your topic is (10)
  - (i) Similar Triangle
  - (ii) Criteria for similarity of triangles
  - (iii) Basic proportionality Theorem [or Thales theorem for solution refer NCERT Textbook]
  - (iv) Converse of Basic proportionality Theorem
  - (v) Areas of similar triangles
  - (vi) Pythagoras Theorem
  - (vii) Converse of Pythagoras Theorem
2. A bookseller purchased 117 books out of which 45 books are of mathematics and the remaining 72 books are of physics. Each book has the same size. Mathematics and physics books are to be packed in separate bundles and each bundle must contain the same number of books. Find the least number of bundles which can be made for these 117 books. (2)
3. If the HCF of 408 and 1032 is expressible in the form  $1032y$

–  $408 \times 5$ , then find  $y$ .  
(2)

4. Two tankers contain 650 litres and 1170 litres of petrol respectively. Find the maximum capacity of a tanker which can measure the petrol of either tanker in exact number of times.(2)

5. List the number of corona patients in different states and find the HCF of any 7 states also make a frequency distribution table and draw a frequency polygon for the data.  
(5)

6. Find all the zeroes of  $2x^4 - 3x^3 - 3x^2 + 6x - 2$ , if two of its zeroes are  $\sqrt{2}$  and  $-\sqrt{2}$ .  
(3)

7. If the cost of 2 kg of apples and 1 kg of grapes on a day was found to be Rs. 160. After a month, the cost of 4 kg of apples and 2 kg of grapes is Rs. 300. Represent the situation

8. algebraically. (2)

9. Write the definition of real numbers, classification of real numbers, properties of real numbers and prepare a Real Numbers Chart.  
(5)

10. Write and solve the questions of 5 sample papers of chapter 1 and chapter 2.  
(5)

11. Write and learn the table from 2 to 20 also squares

from 1 to 50 and cubes from 1 to 20.

(4)

## SUB-CHEMISTRY

Q.1.MAKE A PROJECT FILE ON THE TOPIC SOAPS:-PREPARATION THEIR CLEANSING ACTION AND USES?

Q.2.WRITE EXERCISE QUESTIONS OF CHAPTER 1 THREE TIMES IN YOUR NOTECOPY AND LEARN IT?

Q.3.PREPARE A MODEL OF PERIODIC TABLE AND LEARN IT ?

Q.4.PREPARE A PPT ON CHATER 1 YOU HAVE TO EXPLAIN THE CHAPTER IN CLASS WHEN SCHOOL WILL REOPEN?

Q.5 SOLVE ALL THE QUESTION FROM LAST 5 YEAR?

## Subject - hindi

प्रश्न - 1. किसी भी हिन्दी समाचार पत्र में दिए गए 5 विज्ञापनों को काटकर ए-4 शीट में चिपकाएँ तथा घर में उपयोग किए जाने वाले किन्हीं 5 वस्तुओं के विज्ञापन तैयार करें। 5

प्रश्न - 2. पाठ्य पुस्तक में दिए गए रचना के पर वाक्यों के प्रकार के उदाहरण(प्रत्येक वाक्य के 10-10) ढूंढकर कॉपी में लिखें। 5

प्रश्न - 3 दिए गए विषयों पर निबंध लिखें - 10

1) कोविड - 19

- 2) प्रदुषण की समस्या
- 3) गरीबी एवं बेरोजगारी
- 4) आतंकवाद की समस्या
- 5) आधुनिक समाज।

प्रश्न - 5. गत 2020 बोर्ड परीक्षा के तीनों सेट के प्रश्न पत्रों के प्रत्येक प्रश्न का उत्तर लिखें। 10

नोट - (उपर्युक्त सभी प्रश्नों के उत्तर अपने हिन्दी की कॉपी में लिखें)

**Summer vacation homework 2020-2021**

**class-10th. Physics**

**MM:30**

\* Complete light chapter in your fair copy with neat and clean diagram. 3

\* Solve all rules and cases of concave mirror and convex mirror in your fair copy. 2

\* Practice ray diagram and numerical of chapter-light reflection and refraction. 2

\* A student focuses the image of a candle flame, placed at about 2 m from a convex lens of focal length 10 cm, on a screen. After that he moves gradually the flame towards the lens and each time focuses its image on the screen. 3

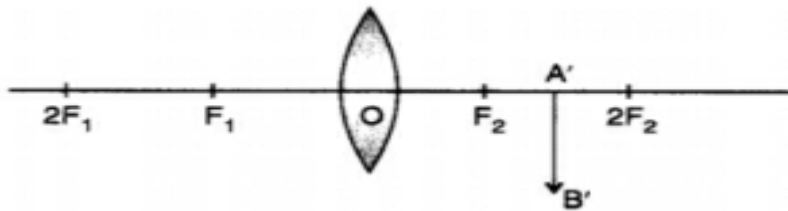
(a) In which direction does he move the lens to focus the flame on the screen?

(b) What happens to the size of the image of the flame formed on the screen?

(c) What difference is seen in the intensity (brightness) of the image of the flame on the screen?

(d) What is seen on the screen when the flame is very close (at about 5 cm) to the lens?

\* An incomplete ray diagram is shown below where the image A'B' for an object AB (placed somewhere in front of lens) is formed after refraction through the convex lens. 3



Observe the above and use the given information to fill in the following blanks :

(i) The object AB would have been placed \_\_\_\_\_ .

(ii) Size of the object would have been \_\_\_\_\_ than the size of image.

\* Draw a path of light ray passing through a prism. Label angle of incidence and angle of deviation in the ray diagram. 3

\* The focal length of concave mirror is 15 cm find the position of the object to obtained a real image 3 times bigger than the object. 3

\* The focal length of the convex mirror is 15 cm where should the object be placed so that image obtained should be 1/3 times that of the object. 3

\* The focal length of convex mirror is 24 cm. an object is placed 48 cm in front of it determine the position of the image and write the nature of the image. 3

\* Draw a labelled diagram of the points given below in the chart paper:- 5

1. Biogas plant (Roll no. 1 to 5)
2. Nuclear power plant (Roll no. 6 to 10)
3. hydro power plant (Roll no. 11 to 15)
4. Electric generator (Roll no. 16 to 20)
5. Electric motor (Roll no. 21 to 24)

## ***SUBJECT- ENGLISH***

*Q(1) Read your supplementary book up to 5 chapter ,identify at least 5 difficult words from each page and write their meaning ,one antonym and three synonyms of each word .Use the difficult words, it's antonym and synonyms in your own sentences and learn their spellings.*

*Q (2) Read any 5 stories other than your book and write it's summary in not less than*

*two pages.*

*Q (3) Solve reading writing and grammar section of board exam's question papers of last five years.*

*Q(4) Choose any five pictures of your brother's & sister's old book cut and paste in your note book and develop your own story in not less than three pages .*

*Note:- All work should be done in your note book.*

## **Sub – Social science**

1.write notes on

a) Giuseppe Mazzini

b) Count family de cavour

c) The Greek war of Independence

d) Frankfurt parliament

e) The role of women in nationalist struggles

2. Why did Nationalist tensions emerge in the Balkans?

3. Briefly trace the process of German and Italy unification. Compare both of them.

4. Explain briefly the concept of ' Horizontal' distribution of power.

5.Explain the third kind of Government in Belgium.

6. What do you understand by Human Development Index?

7.What are the problems associated with indiscriminate use of resources by man?

8.Classify resources on the basis of status of development.

9. Mention the methods to solve the problems of land degradation.

10. Mention the importance of natural resources.

11. On the map of India, show the distribution of soil explaining all details like soil type, crop grown and so on.

Keeping the concept of power in mind, what are the arrangements/ provisions made in the

Constitution and in the government of India. Explain point wise.

## **Subject - biology**

Q.1. Complete last five years sample paper and solve them in to three times. 10

Q.2. Record time and temperature of sun rise and sunset in to one month. 10

Q. 3. What change do you observe in atmosphere during lock down. 5

Q. 4. What is the symptoms and precautions of Corona virus. 5