

SHRAVAN KUMARI SR. SEC. SCHOOL, CHIRAHULA REWA (M.P.)

Summer Assignment 2020-21

Class- Nursery

English	Learn alphabet A to Z.
हिन्दी	अ से अः तक स्वर याद करिए।
Maths	Learn the numbers from 1 to 10.
Rhymes	Learn one English and one Hindi poem from your text book.

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Class-L.K.G.

English	Write and learn alphabet A to Z (five time)
हिन्दी	क से ज तक व्यंजन लिखिए (दस बार)
Maths	Write and learn numbers from 1 to 50 (10 times).
EVS	Learn five fruits name and five vegetables name.
Rhymes	Learn one English poem and one Hindi poem from your text book.

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Summer Assignment 2020-21

Class-U.K.G.

English	Do 10 page Writing in English Copy and Spelling Alphabet A to Z
हिन्दी	दो अक्षर वाले दस शब्द और तीन अक्षर वाले दस शब्द लिखो और याद करों।
Maths	Learn and Write table of 2 and 3 (5 times)
EVS	Learn and Write fruits Name with picture (any five)

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Class-I

English	<ol style="list-style-type: none">1. Write five sentences about myself.2. Learn and write of chapter 1.
हिन्दी	<ol style="list-style-type: none">1. अपनी पाठ्यपुस्तक की कविता झूला लिखकर याद करिए।2. विलोम शब्द 10 लिखिए एवं याद करिए।3. वर्णमाला (स्वर, व्यंजन) याद करो।
Maths	<ol style="list-style-type: none">1. Write and learn table from 2 to 10.2. Write back counting of number from 100 to 1.3. Write and learn number names from 1 to 20
EVS	<ol style="list-style-type: none">1. Write the names of different body parts and paste their pictures.2. Write and learn any 10 fruits name.3. Write and learn any 10 vegetables name.

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Class-II

English	<ol style="list-style-type: none">1. Draw the pictures of Lion & Lamb. 2- Write one page hand writing daily.2. Write & learn name of months and weeks.
हिन्दी	<ol style="list-style-type: none">1. अपनी पाठ्यपुस्तक की कविता "म्याऊँ-म्याऊँ लिखिए एवं याद कीजिए।2. पाठ-2 के सभी प्रश्न-उत्तर लिखकर याद कीजिए।
Maths	<ol style="list-style-type: none">1. Write the counting Numbers 1 to 100.2. Write the number name 1 to 50.3. Write and Learn Multiply table from 2 to 10.
EVS	<ol style="list-style-type: none">1. Learn chapter 1 all question answer.2. Make a family tree of Joint family in your notebook and paste the picture of your Family members on it.
Computer	<ol style="list-style-type: none">1. Draw a diagram of different types of computer.2. Write the uses of computer in school and home.3. What computer can not do?

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Class-III

English	<ol style="list-style-type: none">1. Learn and write question & answer of chapter 1 and 2.2. Read one page daily.3. Learn and write poem of chapter - 2.
हिन्दी	<p>रिमझिम -</p> <ol style="list-style-type: none">1. पाठ 1 एवं 2 के सभी प्रश्न एवं उत्तर लिखकर याद कीजिए।2. प्रतिदिन एक पृष्ठ सुलेख लिखिए।
व्याकरण	<ol style="list-style-type: none">3. वर्णमाला लिखिए एवं याद कीजिए।4. 15 समानार्थी शब्द लिखिए।5. 15 विलोम शब्द लिखिए।
Math	<ol style="list-style-type: none">1. Write the Multiply table from 2 to 100.2. Do exercise 1.1, 1.2, 1.3 solve all question and answer on your notebook.
EVS	<ol style="list-style-type: none">1. Why do we respect our elders?2. Write and learn question & answer of chapter 1 and 2.3. Make a family tree of nuclear family tree and joint family tree on your class work copy and paste the picture of family members on it.
Computer	<ol style="list-style-type: none">1. Write three disadvantages of computer.2. Draw a diagram of keyboard.3. Write any three points of caring your Computer.

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Class – IV

English	<ol style="list-style-type: none">1. Write 10 lines about your family.2. Learn and write poem of chapter - 2.3. Learn and write question & answer of chapter 1 and 2.
हिन्दी	<p>रिमझिम - 1. कुछ तो लगते हैं बजाते बादल। कविता की उपरोक्त पंक्तियों का अर्थ लिखिए।</p> <ol style="list-style-type: none">2. नीचे दिए गए बादलों के चित्र बनाओं और रंग भरें। (क) काले-काले डरावने। (ख) गुब्बारों से गालों वाले। (ग) हल्के-फुल्के सुहाने।3. पाठ-2 'जैसा सवाल वैसा जवाब' के सभी प्रश्न एवं उत्तर लिखकर याद कीजिए।4. प्रतिदिन एक पृष्ठ सुलेख लिखिए।
व्याकरण	<ol style="list-style-type: none">5. कम से कम पाँच-पाँच शब्द ढूँढ़कर लिखिए जिनमें अनुस्वार और अनुनासिक का प्रयोग किया जाता है।6. 'पेड़ हमारे मित्र' के बारे में एक अनुच्छेद लिखिए।
Maths	<ol style="list-style-type: none">1. Write the Roman Numerals from 1 to 50.2. Write the multiply Table from 2 to 10.3. Do exercise 1.1 Solve all question answer on your notebook.
EVS	<ol style="list-style-type: none">1. Write difference between immediate family and extended family.2. Write five sentences about good touch and bad touch.3. Paste picture of your family members in your notebook. Also write your relation with them.

G.K.	1. Write and Learn 25 gk questions in gk notebook.
Computer	<ol style="list-style-type: none">1. Write the uses of following devices.<ol style="list-style-type: none">a) Digital camerab) Web camerac) Joystickd) Touch pade) Hard diskf) Touch screen2. Write full form of the following.<ol style="list-style-type: none">a) CRTb) LCDc) TFTd) CD/DVDe) CPUf) ATM

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Class-V

English	<ol style="list-style-type: none">1. Write a descriptive paragraph on your favorite festival.2. Learn and write word meaning of chapter 1 & 2.3. Learn and write question & answer of chapter 1 and 2.
हिन्दी	<ol style="list-style-type: none">1. 'राख की रस्सी' पाठ के प्रश्नोंत्तर लिखिए और याद कीजिए।2. फसलों से संबंधित किन्ही दो त्योहारों के बारे में लिखिए।
व्याकरण	<ol style="list-style-type: none">1. 'वृक्ष हमारे मित्र' विषय पर अनुच्छेद लिखिए।
Maths	<ol style="list-style-type: none">1. Write the roman numeral of 1 to 100.2. Do exercise – 1.1, 1.2, 1.3
EVS	<ol style="list-style-type: none">1. Suggest some ways to stay healthy.2. Write short notes:<ol style="list-style-type: none">(a) Clean habits(b) Importance of exercise(c) Unhealthy habits3. Write the types of nutrients and their sources.4. Write the types of crops and their examples.5. Make a list of 10 states of India. Find out their popular food items. <p>Note them down in your EVS notebook.</p>
Computer	<ol style="list-style-type: none">1. Make a chart of generations of computer.2. Write the uses of software.

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Class-VI

S.S.T.	<p>1. History:- On a river map of India, mark the following rivers (refers to Atlas and chapter 1 of History)</p> <ol style="list-style-type: none">1. River Kaveri2. River Godavari3. .River Mahanadi4. .River Krishna5. .River Ganga6. River Narmada <p>(2) Social and Political life :-</p> <ol style="list-style-type: none">1. Take any ten states of your choice and collect and write the following information about each:<ol style="list-style-type: none">1. Their food habits2 Their dresses3. Their festivals 4.Their language5. Their folkdance <p>(3) Geography:-</p> <ol style="list-style-type: none">1. Write and learn states and union territories and their capitals.2. Learn and write names of the continents and oceans.
Computer	<ol style="list-style-type: none">1. Draw a chart of flow chart symbols.2. Algorithm to find the sum of three numbers. (no. 5, 6, 9)

हिन्दी	<p>बसंत से भाग-1</p> <ol style="list-style-type: none"> 1. पाठ-1 का चिड़िया का चित्र बनाना है। 2. पाठ-1 और पाठ-2 का प्रश्नोत्तर लिखकर याद करें।
व्याकरण	<ol style="list-style-type: none"> 1. संज्ञा की परिभाषा और प्रकार सहित लिखकर याद करें। 2. निबंध - विद्यालय पर निबंध लिखिए। 3. वर्ण, शब्द, वाक्य की परिभाषा लिखिए।
Maths	<ol style="list-style-type: none"> 1. Make a table of Indian place value and international place value chart. 2. Do exercise 1.1 and 1.2 3. Write the properties of addition and multiplication of whole numbers 4. Do exercise- 2.1 and 2.2. 5. Write the Roman numerals 01 to 100
Science	<ol style="list-style-type: none"> 1. Why do organism need food? Write two reasons. 2. What are different edible part of a plant? Give example. 3. Write three differences between natural and synthetic fibre. 4. Prepare a flow chart on process involve in fibre to get fabrics. Write down the process. 5. Make a project on chart paper of different food components their sources, diseases cause in their deficiency, symptoms of the diseases and their remedies. 6. Activity Visit a nearby tailoring shop. Collect cuttings of fabrics leftover after stitching. Feel and touch each piece of fabric. Now, label some of the fabrics as cotton, silk, wool or Synthetic after asking for help from the tailor. 7. Why we should avoid wastage of food?
English	<ol style="list-style-type: none"> 1. Honeysuckle chapter. 1 and 2 learn and write question answer. 2. Chapter 1 and 2 Honeysuckle and supplementary in Find the hard word and written them. 3. write an Essay on Corona Virus (200 words)
संस्कृत	<ol style="list-style-type: none"> 1. संस्कृत में 1 से 100 तक संख्या लिखे।

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Class-VII

S.S.T.	<ol style="list-style-type: none">1. 18 Famous Historical Monuments of India Built by Mughal Emperors.2. Define Indian constitution in 100 words3. Make a list of different uses of water in our daily life. Have you seen anyone wasting water? How? <p>(Note) -Write all the topics in your class work copy itself.</p>
Computer	<ol style="list-style-type: none">1. What is number system?2. Write types of number system<ol style="list-style-type: none">(a) Decimal number system(b) Octal number system(c) Binary number system(d) Hexadecimal number system3. Define Binary?4. Write the conversion steps from Binary to Decima number system give some examples.5. Write the conversion steps from Decimal to Binary. Give some examples.6.Expalin the following terms<ol style="list-style-type: none">(a) Binary Addition(b) Binary subtraction(c) Binary Multiplication(d) Binary division7.Convert the following decimal number into Binary

	<p>(a) 978 (b)572 (c) 456 (d)701 (e)101</p> <p>8.Convert the following Binary into Decimal</p> <p>(a)1001 (b)1110 (c)1010101 (d)1111 (e)1011 (f)11110 (g)1001 (h)101 (i)10110 (j) 10011</p> <p>(k)110 (l) 1110 (m) 11101(n) 11111 (o) 1000 (p) 10001</p>
हिन्दी	<p>2. “हम पंक्षी उन्मुक्त गगन के” कविता की सप्रसंग व्याख्या लिखिए।</p> <p>3. कविता से संबंधित आकृतियाँ अपनी उत्तर-पुस्तिका में बनाइए।</p> <p>4. आपकी पाठ्य-पुस्तक में दिए गए किन्ही दो कवियों का संक्षिप्त जीवन परिचय लिखिए।</p>
व्याकरण	<p>1. ‘प्राकृतिक आपदा’ विषय पर निबंध लिखिए।</p>
Maths	<p>1. Write roman numerals 01 to 100.</p> <p>2. Do exercise- 1.2, 1.3 and 2.1.</p> <p>3. Write the properties of Addition of integers</p> <p>4. Write the various types of fraction and define it.</p>
Science	<p>1. Draw a neat diagram of human digestive system on chart paper.</p> <p>2. Draw arrangement of teeth and different types of teeth.</p> <p>3. Define Following Key Words:</p> <p>A) Autographs</p> <p>B) Heterotrophy</p> <p>C) Nutrients and Nutrition</p> <p>D) photosynthesis</p> <p>E) Villi</p> <p>F) Parasite</p> <p>G) Pancreas</p> <p>H) Ruminant</p> <p>I) Shearing</p> <p>J) Sericulture</p>

	<p>K) Conduction L) Convection M) Indicator N) Neutralization</p> <p>5. Make a list of substances having different kind of acids and bases; also write the name of that acid and base.</p> <p>6. Prepare a card for your mother using turmeric paste as an indicator on soap solution.</p> <p>7. Draw life history of silk moth. Also write down the discovery of silk.</p> <p>8. Differentiate B/W Autotroph And Hetrotroph, Parasite And Saprophyte.</p> <p>9. Write the various components of foods and their function and digestion in humans.</p>
English	<p>1. Write a note on good habits and learn it.</p> <p>2. Write an essay on My family and learn it.</p> <p>3. Write and learn question and answer chapter 1 and 2 from Honey comb.</p>
संस्कृत	<p>1. संस्कृत में 1 से 100 तक संख्या लिखे।</p> <p>2. सुभाषितानि श्लोक का अर्थ हिन्दी में याद करिये एवं कापी में लिखें।</p>

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Class-VIII

English	<ol style="list-style-type: none">1. Write an essay on Health is Wealth and learn it.2. Write a short note on your parents.3. Write and learn question and answer of chapter 1 and 2 from Honey dew.
Maths-	Chapter -1,2,3 Solve all the questions and answer On your notebook. Write all formula and learn also.
Science-	<ol style="list-style-type: none">1. Discuss the limitations of the drip irrigation system in respect to a large Country like ours.2. What is the role of antiseptics in bacterial infections? Sum up these discussions and report the brief to your teacher.3. Make a Presentation On either of the following. “Commercial Use of Microorganisms in the field of medicine.”4. Suggest ways to minimize the damage to the environment due to Synthetic polymers.5. Study the wetting characteristics of various fires.
संस्कृत	<ol style="list-style-type: none">1. संस्कृत में 1 से 100 तक संख्या लिखे।
हिन्दी	<p style="text-align: center;">Hindi Project and Assignment</p> <ol style="list-style-type: none">1. असली नायकों पर निबंध लिखें जो कोरोना महामारी को मिटाने के लिए दिन-रात हमारी सेवा कर रहे, लगभग 250-300 शब्दों में।2. होममेड मास्क तैयार करें, और कोरोना महामारी के दौरान मास्क का उपयोग करने के फायदे लिखें।

S.S.T.	<ol style="list-style-type: none"> 1. List of British governor general during British period in India. 2. Write difference between governor general and viceroy. 3. Write in 100 words what would happen if natural resources disappeared? <p>(Note) - Write all the topics in your class work copy itself.</p>
Computer	<p>ARTIFICIAL INTELLIGENCE'</p> <ol style="list-style-type: none"> 1. What is Artificial intelligence or AI? 2. Explain types of AI <ol style="list-style-type: none"> a) Artificial narrow intelligence (ANI) b) Artificial general intelligence 3. Explain artificial intelligence versus Human intelligence 4. Explain fields related to AI? <ol style="list-style-type: none"> a) Machine learning b) Deep learning c) Data science d) Robotics 5. Explain natural language processing (NLP) 6. Write some application of AI? 7. Explain domains of AI? 8. Explain smart homes to smart cities 9. Write limitation of AI today? 10. Write uses for computer vision technology 11. Write component of NLP
G.K.	Write 100 gk questions in gk copy

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Class-IX

S.S.T	<p>(1) History:- Write and learn questions and answers of chapter 1 and 2 in your history notebook.</p> <p>(2) Social and political life: - Make a chart showing comparison between democracy and dictatorship with examples.</p> <p>(3) Geography:-</p> <ol style="list-style-type: none">1. Find out area wise smallest and Largest state of India.2. Find out the state which do not have an international border or lie on the coast.3. Classify the states into four groups each having common frontiers with <ol style="list-style-type: none">(i) Pakistan(ii) China(iii) Myanmar(iv) Bangladesh. <p>4. Economics:- Read chapter 1 - The story of village Palampur</p>
Maths	<p>Solve all question and answer in your notebook of Chapter 1,2 and 3 Write all formulae and learn also.</p>
Physics	<p>1. A bus starting from rest moves with a uniform acceleration of 0.1m/s for two minutes. Find the speed acquired by the bus.</p>

2.

Velocity (m/s)	20	20	10	20	0
Time (s)	0	5	7	10	15

The above table shows the velocity of the motor bike at various intervals of time. Plot a velocity- time graph.

Calculate:

- (a) Deceleration between 5s and 7s
- (b) Acceleration between 7s and 10s
- (c) Deceleration between 10s and 15s
- (d) Total distance travelled by the motorbike in 15s.
- (e) Average velocity of the motorbike.

3. The table given below shows distance (in cm) traveled by the bodies A B and C.

Read this data carefully and answer the questions which follow.

Distance (in cm) covered by different bodies

Time	Body A	Body B	Body C
1st second	20	20	20
2nd second	20	36	60
3rd second	20	24	100
4th second	20	30	140
5th second	20	48	180

- (a) Which of the body is moving with
 - (i) Constant speed?
 - (ii) Constant acceleration?
- (b) Which of the bodies covers

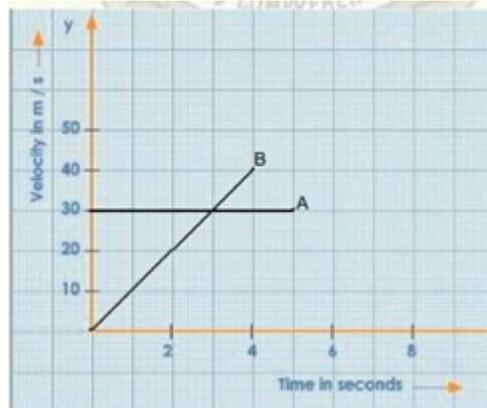
- (i) Maximum distance in 3rd second?
- (ii) Minimum distance in 3rd second?
- (c) Which of the bodies is moving with non-uniform acceleration?
- (d) Sketch a distance time graph for motion of
 - (i) body A
 - (ii) body C
- (e) How much distance is covered by body C in 5s?
- (f) How much distance is covered by body B in last three seconds?
- (g) Which of the bodies covers least distance in first three Seconds?
- 4. Read the given time (t) vs. displacement (s) data carefully and answer the questions which follow:

Time (t) in seconds	Displacement (s) in metres
0	0
2	8
4	16
6	16
8	8
10	0

- (i) Sketch a displacement – time graph for this motion.
- (ii) Sketch a distance-time graph for the same motion.
- (iii) For which time intervals the body possesses
 - (a) uniform retaralation
 - (b) Constant velocity
- (iv) What will be the displacement of the body at (a) t = 3sec (b) t = 7sec
- (v) Give one example of this kind of motion in everyday life situations.

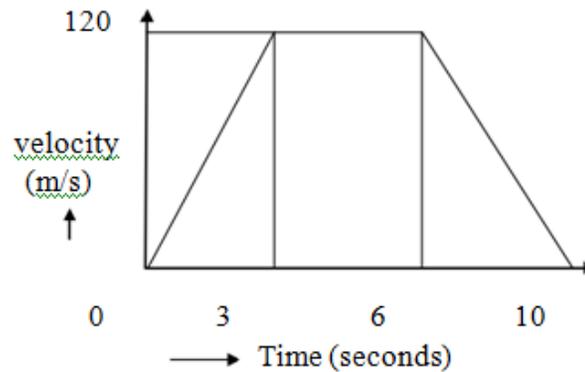
5. Read the given information carefully and answer the question that follow:
 A hockey ball, of mass 200 g, travelling from west to east, at 10m/s is struck by a hockey stick. As a result, the ball gets turned back and now has a speed of 5m/s. The ball and the hockey stick were in contact for 0.2s.
- Calculate the initial and final momentum of the ball.
 - State the direction of momentum in each case.
 - Calculate the rate of change of (a) momentum (b) rate of change of momentum?
 - Calculate the force exerted by the hockey stick on the ball and state its direction.

6. **Instruction:** The velocity-time graph for motion of two bodies A and B is as shown. Observe the graph carefully and answer the following questions:



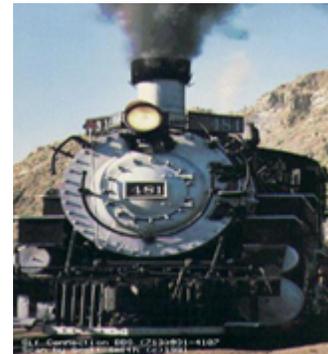
- Which of the two bodies has a higher velocity at time (a) $t = 2s$ (b) $t = 4s$?
Which of the two bodies has (a) constant velocity (b) increasing velocity?
At what time is the velocity of the two bodies same?
What is the velocity of A and B at time $t = 1s$?
What is the change in the velocity of body B over a 2 second interval?

7. The velocity-time graph of an object of mass 50 g is as shown. Observe the graph carefully and answer the following questions



- (a) Calculate the force on the object in the time interval 0-3s.
 (b) Calculate the force on the object in the time interval 6-10 s
 (c) Is there any time interval in which no force acts on the object? Justify your answer.

8. A train of mass 6.84×10^6 kg is moving at a speed of 80 km/h. The brakes, which produce a net backward force of 1.93×10^6 N, are applied for 25.0 seconds.



- a. What is the new speed of the train?
 b. How far has the train traveled in this time?

9. A hockey ball, of mass 200 g, travelling from west to east, at 10m/s is struck by a hockey stick. As a result, the ball gets turned back and now has a speed of 5m/s. The ball and the hockey stick were in contact for 0.2s.

- (i) Calculate the initial and final momentum of the ball.
 (ii) State the direction of momentum in each case.
 (iii) Calculate the rate of change of momentum of the ball.

	<p>(iv) What are the SI units of (a) momentum (b) rate of change of momentum?</p> <p>(v) Calculate the force exerted by the hockey stick on the ball and state its direction.</p> <p>10. Read the given terms/situations given in columns A and B carefully and match the two:</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Column A</th> <th style="text-align: left;">Column B</th> </tr> </thead> <tbody> <tr> <td>(a) Push</td> <td>(i) Taking out a note book from a table drawer</td> </tr> <tr> <td>(b) Pull</td> <td>(ii) Using a bow and an arrow</td> </tr> <tr> <td>(c) Stretch</td> <td>(iii) A ball rolling down an incline</td> </tr> <tr> <td>(d) Acceleration</td> <td>(iv) Opening a door to get into a room.</td> </tr> <tr> <td>(e) Squeeze</td> <td>(v) Batting</td> </tr> <tr> <td>(d) Change in direction</td> <td>(vi) Brushing teeth</td> </tr> </tbody> </table>	Column A	Column B	(a) Push	(i) Taking out a note book from a table drawer	(b) Pull	(ii) Using a bow and an arrow	(c) Stretch	(iii) A ball rolling down an incline	(d) Acceleration	(iv) Opening a door to get into a room.	(e) Squeeze	(v) Batting	(d) Change in direction	(vi) Brushing teeth
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Bio	<p>PART A</p> <p>Q1: What is COVID -19 and what is its causative agent?</p> <p>Q2: What does COVID -19 stands for?</p> <p>Q3: What are the symptoms of COVID -19?</p> <p>Q4: Are antibiotics effective in preventing or treating COVID -19? Give reason for your answer.</p> <p>Q5: Why vaccine for COVID -19 is difficult to prepare and taking so long?</p> <p>Q6: What is the difference between self isolation, self quarantine and social distancing?</p> <p>Q7: How can you protect yourself from the infection of COVID-19?</p> <p>Q8: What precautions are you taking these days before consuming fruits and vegetables?</p> <p>Q9: What precautions are you taking while buying groceries and when receiving a delivery at home</p>														

these days?

Q10: Can you get infected by COVID-19 through the air?

Q11: How long does the virus survive on surfaces?

Q12: Will taking extra vitamins supplements help against COVID-19 infection?

PART B

Q1: Which organelle would you associate with elimination of old and worn out cells?
Why?

Q2: Describe an activity to demonstrate endosmosis and exosmosis. Draw a diagram in support of the activity.

Q3: a. Draw a plant cell and name seven important organelles found in it.

b. Name one organelle that can make some of its own protein in a plant cell and also mention one function of such an organelle.

Q4:a) Where are chromosomes located?

b) What are they composed of ?

c) What is chromatin material and how does it change just before the cell divides?

d) What is their chemical composition?

e) How many pairs of chromosomes are present in humans?

Q6: Who discovered cell and how? From where do the new cells come?

Q7: Draw a neat diagram of an animal cell and label the following organelles:

a. Plasma membrane

b. Golgi apparatus

c. Centriole

d. Rough endoplasmic reticulum

Q8: Why are mitochondria called Power house of the cell? Give three similarities and one difference between mitochondria and plastid.

Q10: Put a drop of blood in three type of liquids:

	<p>a. Pure water b. Salt solution c. Water containing 5M glucose and 0.9% NaCl</p> <p>What will happen to the blood drop and why? Explain your answer</p> <p>Q11: Draw a diagram of prokaryotic cell and label on it the following: Nucleoid, Ribosomes, Plasma membrane.</p> <p>Q12: What is the difference in the type of cell division that takes place in sex cells and in the skin?</p> <p>Q13. What is membrane biogenesis? How does it takes place?</p>
CHEMISTRY	<p>Q1 explain:-</p> <p>A. Why liquids are more compressible as compared to solids?</p> <p>B. List any two property of liquid that are common to gases?</p> <p>C. How does melting point of solid indicate the strength of its inter-particle forces of attraction?</p> <p>D. Which characteristic of gas is used in supplying oxygen cylinder to hospital?</p> <p>E. Why a gas cylinder cannot be half filled?</p> <p>F. Name the property of gas that helps aquatic plants and animals to survive in water</p> <p>G. Ice, water and steam are different states of the same chemical compound. In what respect do these differ?</p> <p>H. (a) -- define evaporation. Out of nylon and cotton clothes, which will be more comfortable during summer and why?</p> <p>(b) -- is evaporation and boiling the same? If not then why</p> <p>I. Give reasons for the following</p> <p>(a) -- a liquid generally flows easily.</p> <p>(b) -- ice at 0°C appears cooler in the mouth than water at 0°C.</p> <p>(c) -- doctor advice to put strips of wet cloths on the forehead of a person having high</p>

	<p>temperature.</p> <p>J. How do surface area and wind speed affect the rate of evaporation? Explain.</p>
हिन्दी	<p style="text-align: center;">Hindi Project and Assignment</p> <p>1. कोरोना से सुरक्षित रहने के लिए छात्र कैसे योगदान दे सकते हैं ? इस विषय में लगभग 300-350 शब्दों में निबंध लिखें।</p> <p>2. चित्र के साथ समझाएँ अध्याय कबीर की सखियाँ।</p>
English	<p>1. Write 50 verb forms (V₁, V₂, V₃)</p> <p>2. Write 20 conjunctions and use them in sentences.</p> <p>3. Use model verbs in sentences.</p> <p>4. Write story 'The Fun They Had' (From Beehive) in your own words.</p> <p>5. Write a letter to the Superintendent of police of your district complaining about poor patrolling by the police in your area, resulting in petty Crimes.</p> <p>6. Write an article on the topic 'Sound Distancing in reference of 'Korona'</p> <p>Note – Work should be done in a file.</p>
Computer	<p>'ARTIFICIAL INTELLIGENCE'</p> <p>1. Define Artificial Intelligence or AI?</p> <p>2. Write history of AI</p> <p>3. explain fields closely related to AI</p> <p>4. Write important phases in development of AI?</p> <p>5. What is weak AI?</p> <p>6. What is strong AI?</p> <p>7. Write limitation of weak AI?</p> <p>8. Write about notes on</p> <p>(a) Data (b) computer vision (c) natural language processing 8. Write real life usage</p>

	<p>of AI</p>
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9. Write short notes on

(a) machine learning

(b) Neural networks

10. Write 5 application of AI

SHRAVAN KUMARI SR. SEC. SCHOOL, CHIRAHULA REWA (M.P.)

Summer Assignment 2020-21

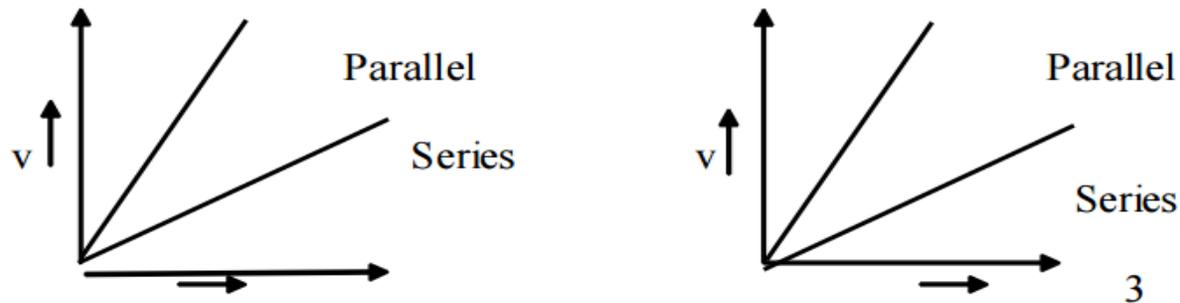
Class-X

Maths	<ol style="list-style-type: none">1. Explain Euclid division lemma by three Examples.2. Solve exercise 1.1, 1.3, 2.3 and 5.13. Prove that $\sqrt{7}$ and $3-\sqrt[2]{5}$ is on irrational.4. Explain introduction of two Mathematicians.5. Explain definition of following with example.<ol style="list-style-type: none">(i) Prime number(ii) Composite number(iii) Linear equation two variables.
S.S.T.	<ol style="list-style-type: none">1. Make a project showing how industries are polluting our water resources.2. Take any Indian industry or service of your choice. Collect information and photographs from newspapers, magazine, clippings, books, television, internet, on the following aspects of the industry.<ol style="list-style-type: none">(i) Various producers/companies in the industry(ii) Is the product exported to other countries(iii) Are there MNCs among the producers(iv) Competition in the industry(v) Conditions of work in the industry(vi) Has there been any major change in the industry in the past fifteen years?(vii) Problems that people in the industry facing.

Section A
Conceptual Question

1. Calculate the number of electrons constituting one Coulomb of charge
2. How do we connect voltmeter and ammeter in an electric circuit? What is likely to happen?
If the positions of these instruments are interchanged?
3. A bulb cannot be used in place of a resistor to verify Ohm's law. Justify this 2 statement with reason.
4. State the type of combination used for connecting different electric appliances in circuit. Give reason.
- 5.

Physics



Two students perform the experiments on series and parallel combination of two given resistors R_1 and R_2 and plot the following V-I graphs. Which of the two diagrams correctly represents the labels 'series and parallel' on the plotted curves? Justify your answer.

6. Explain the following:
 - (i) Copper and Aluminium wires are employed for electricity transmission.
 - (ii) Heating devices are made of an alloy rather than a pure metal.
 - (iii) Tungsten is used for filament of electric lamp.

7. Two metallic wires of the same material are connected in parallel. Wire A has length “ l ” and radius r , wire B has a length $2l$ and radius $2r$. Calculate the ratio of their equivalent resistance in parallel combination and the resistance of wire A.
8. Why are electric bulbs filled with chemically inactive nitrogen or argon?
9. Derive an expression for the equivalent resistance of three resistors R_1 , R_2 and R_3 connected in series.
10. Match the correct range of resistivity with the materials given:

a. Conductor	-	i) $10^6 \Omega m$
b. Alloys	-	ii) 10^{12} to $10^{17} \Omega m$
c. Insulators	-	iii) 10^6 to $10^{-8} \Omega m$
11. Derive an expression for Joule’s law of heating. Give two examples for applications of heating effect of electric current.
12. A wire of resistivity is stretched to double its length. Find its new resistance and resistivity.

Section B

NUMERICAL PROBLEMS

13. 100J of work is done in transferring 20C of charge between two points in a conductor. Find the resistance offered by the conductor, if a current of 2A flows through it.
14. Calculate the resistance of a metal wire of length 2m and area of cross section $1.55 \times 10^{-6} m^2$, if the resistivity of the metal be $2.8 \times 10^{-8} \Omega m$? ()
15. A battery of 12V is connected to a series combination of resistors 3Ω , 4Ω , 5Ω and 12Ω . How much current would flow through the 12Ω resistor?
16. Nichrome wire of length l and radius ‘ r ’ has resistance of 10Ω . How would the

resistance of the wire change when (i) only the diameter is doubled? (ii) Only length of the wire is doubled?

17. Two devices of rating 44W, 220V and 11W, 220V are connected in series. The combination is connected across a 440V main. The fuse of which of the two devices is likely to burn when the switch is ON? Justify your answer.

18. A wire of resistance 10Ω is bent in the form of a closed circle. What is the effective resistance between the two points at the ends of any diameter of the circle?

Two resistors with resistances 5Ω and 10Ω are to be connected to a battery of 6V so as to obtain:

(i) Minimum current

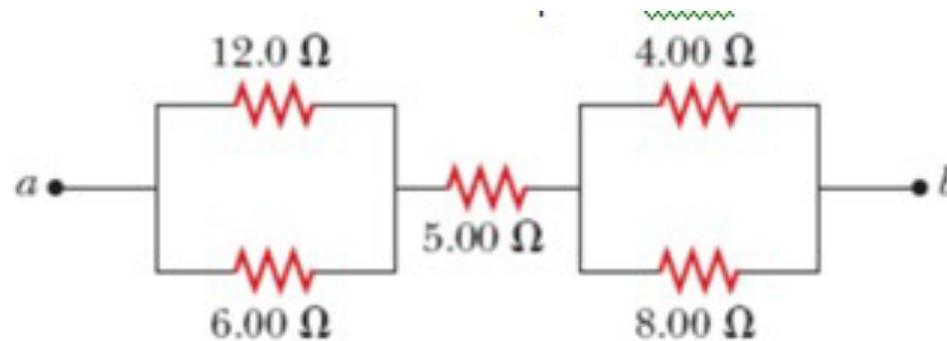
(ii) Maximum current. How will you connect the resistances in each case?

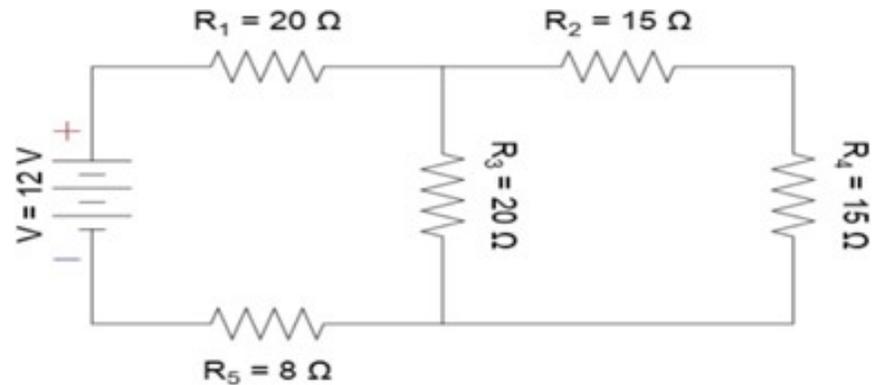
20. Two identical resistors are first connected in series and then in parallel to a source of supply. Find the ratio of heat produced in two cases.

21. A torch bulb is rated 5V and 500mA. Calculate its (i) power, (ii) resistance, (iii) energy consumed when it is lighted for 4 hours.

22. An electric heater rated 880W operates 6h/day. Find the cost of energy to operate it for 30 days at Rs 3.00 per unit.

23. Calculate the net resistance between the points a and b in the circuit diagram shown.





24. From the above diagram, determine
- i) The equivalent resistance of the entire circuit
 - ii) The current through each resistor
 - iii) The total current from the power supply
- The voltage drop across each resistor

Biology

1. Name the following -
 - (a) The process in plants that links light energy with chemical energy
 - (b) Organisms that can prepare their own food
 - (c) The cell organelle where photosynthesis occurs
 - (d) Cells that surround a stomatal pore
 - (e) Organisms that cannot prepare their own food
 - (f) An enzyme secreted from gastric glands in stomach that acts on Proteins.
2. "All plants give out oxygen during day and carbon dioxide during night". Do you agree with this statement? Give reason.
3. How do the guard cells regulate opening and closing of stomatal pores?

4. Differentiate between an autotroph and a heterotroph.
5. Is 'nutrition' a necessity for an organism? Discuss.
6. What would happen if green plants disappear from earth?
7. How does aerobic respiration differ from anaerobic respiration?
8. Differentiate between an artery and a vein.
9. Why is small intestine in herbivores longer than in carnivores?
10. What will happen if mucus is not secreted by the gastric glands?
11. What is the significance of emulsification of fat?
12. Why does absorption of digested food occur mainly in the small Intestine?
13. Why is the rate of breathing in aquatic organisms much faster than in terrestrial organisms?
14. Why is blood circulation in human heart called double circulation?
15. What is the advantage of having four chambered heart?
16. Name the energy currency in the living organisms. When and where is
17. Explain the role of mouth in digestion of food.
18. What are the functions of gastric glands present in the wall of the stomach?
19. Name the correct substrates for the following enzymes
(a) Trypsin (b) Amylase
(c) Pepsin (d) Lipase
20. Why do veins have thin walls as compared to arteries?
21. What will happen if platelets were absent in the blood?
22. Plants have low energy needs as compared to animals. Explain.
23. Why is transpiration important for plants?
24. How do leaves of plants help in excretion?

	<p>Answer the following in detail -</p> <ol style="list-style-type: none"> 25. Explain the process of nutrition in Amoeba. 26. Describe the alimentary canal of man. 27. Explain the process of breathing in man. 28. Explain the importance of soil for plant growth. 29. Draw the diagram of alimentary canal of man and label it. 30. How do carbohydrates, proteins and fats get digested in human beings? 31. Explain the mechanism of photosynthesis. 32. Describe the flow of blood through the heart of human beings. <p>Describe the process of urine formation in kidneys</p>
Chemistry	<p>Q1. Explain:--</p> <ol style="list-style-type: none"> A. Write the balanced chemical equation to represent the following reaction: - iron react with steam to form iron (ii, iii) oxide and hydrogen gas. B. Balance the chemical equation given below: $\text{Al}_2\text{O}_3 + \text{NaOH} \longrightarrow \text{NaAlO}_2 + \text{H}_2\text{O}$ <p>Write the balanced chemical equation for the following reaction: Carbon monoxide reacts with hydrogen gas at 340 atm to form methyl alcohol.</p> <ol style="list-style-type: none"> D. Which one is the chemical change --fermentation of fruit juice or diluting of fruit juice? E. Which is a chemical change --- electrolysis of water or sodium chloride exposed in sunlight? F. Name the reaction in which decomposition of vegetable matter into compost takes place? Why? G. Respiration is considered as exothermic reaction. Explain why? H. Write the essential condition for the following reaction: (a) $2\text{AgCl} \longrightarrow 2\text{Ag} + \text{Cl}_2$ And write one use of the reaction.

	<p>(b) complete the following reaction: $2\text{FeSO}_4 \rightarrow \text{Fe}_2\text{O}_3 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$</p> <p>I. Oxidation and reduction process occurs simultaneously. Justify your statement with the help of an example.</p> <p>J. Identify the substance oxidized and that are reduced in the following reactions: (a) $\text{ZnO} + \text{C} \rightarrow \text{Zn} + \text{CO}$ (b) $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$ (c) $\text{MnO}_2 + 4\text{HCl} \rightarrow \text{MnCl}_2 + 2\text{H}_2\text{O} + \text{Cl}_2$</p>
हिन्दी	<ol style="list-style-type: none"> पठित पाठों, काव्य खण्ड:- 'सूर के पद एवं 'राम-लक्ष्मण-परशुराम संवाद तथा गद्य खण्ड:- 'नेताजी का चश्मा' एवं 'बालगोविन भगत' को तैयार करें। परियोजना कार्य – हिन्दी साहित्य के इतिहास के आधुनिक काल के छायावादी प्रमुख चार कवियों – प्रसाद, निराला, पंत एवं महादेवी वर्मा का परिचय देते हुए उनका साहित्यिक वर्णन कीजिए।
English	<ol style="list-style-type: none"> Write the story 'A Letter to God' (First Flight) using your own words. Summaries 'A Triumph of Surgery' (Sub. Reader) Write a paragraph on the topic 'The Storm' Write 15 prepositions and use them in sentences. Write an article on 'Korona and its effect. Write a letter to the editor of a local daily, urging people to use Mask make proper distancing and to have patience while travelling in the time of korona. Write 'Model verbs' and use them in sentences. <p>Note – (Complete your work in a file)</p>
Computer	<ol style="list-style-type: none"> What is Internet? Write notes on Protocols used in Internet (a) TCP/IP (b) HTTP What is Word Wide Web (WWW) Write the terminology of WWW What is URL?

6. Write about IP Address?
 7. What is HTML?
 8. What is SearchEngine and components of Search Engine?
 9. What is Email and advantage of usingEmail?
 10. What is Telnet?
 11. What is FTP and FTPserver?
 12. Write short notes on
 - (a) Newsgroup
 - (b) Video Conferencing
 - (c) E-commerce
 - (d) E-banking
 - (e) E-shopping
 - (f) E-reservation
 - (g) E-learning
 - (h) Social Networking
 - (i) Blogs
- Advantage and disadvantage of E-learning