RISHI GALAV PUBLIC SCHOOL

Summer Vacation Homework 2020-21

Class- XII

Economics

Answer the following questions-

1. Distinguish between intermediate goods and final goods. Explain the importance of such distinction?
2. Distinguish between stock and flow variables with examples?
3. Explain (i) how income is a flow, and (ii) how the flow of income is circular?
4. Between investment and capital, which is a stock and which is a flow variable? Explain with an illustration.
5. What was the condition of India's infrastructure on the eve of independence?
6. How British government exploited Indian economy for the benefit of British economy?
7. Was there any positive impact of British rule on India?
8. What is national income, explain?
9. What is factor and non factor income, explain with the help of examples?
10. What is domestic territory?

Prepare an essay on 'impact of corona pandemic on India's economy '

Physical Education

⇨ Make notes own and collect information on topics which are given below:

1. Advantages of planning.
2. Objective of planning.
3. Write about different types of committee in sport.
4. Briefly explain about food myth.
5. Make balanced diet chart for your parents.
6. Do you practice these yoga asans at home:
   a. Vajrasan
   b. Trikonasan
   c. Ardhmatsyendrasana
   d. Bhujangasana
   e. Paschimottanasana
   f. Pawanmuktasana
   g. Gomukhasana
   h. Tadasana
   i. Ardhachakrasana
   j. Salabhasana
7. Write notes on any one game of your choice out of the list below, and equipments, rules, terminologies and skills.
   a. Basket ball
   b. Football
   c. Kabaddi
   d. Kho-kho
   e. Volley ball
   f. Hockey
   g. Cricket

Chemistry

1. Complete the NCERT question in one copy of three chapters finished till 30th April and write the notes which were given in PDF form. The chapters are coordination compound surface chemistry solution. Do 5-5 numerical from each colligative property. Write the name of 20 coordination compound. Read the chapter 16 chemistry in everyday life and try to solve the NCERT questions.

Accountancy

1. Complete chapter 1- Non Profit Organization. Do all questions and illustrations.
2. Complete all questions of chapter 2- Partnership fundamental till past adjustments.

Physics

GENERAL INSTRUCTIONS:

1. All questions are compulsory.

2. Students are required to do this assignment in their class notebook.

3. Students are required to make one project on any topic from the prescribed Syllabus mentioned in the practical book.

1. Draw an equipotential surface:
   a) In a uniform electric field
   b) For a point charge <0.

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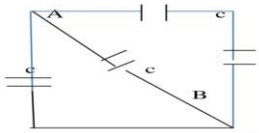
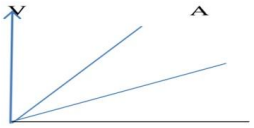
2. How will the capacitance of a capacitor change when a dielectric slab is introduced between the plates of a capacitor?
3. How does the resistivity of a conductor depend upon the number density of free electrons and temperature?
4. Show mathematically that the potential at a point on the equatorial line of an electric dipole is zero.
5. A hollow metal sphere of radius 5cm is charged such that the potential on its surface is 10V. What is the potential at the centre of the sphere?
6. A charge of 12 C is given to hollow metallic sphere of radius 0.1m. Find the potential at (i) the surface of the sphere (ii) centre of the sphere.
7. Calculate the Coulomb force between a proton and an electron separated by 0.8 x 10-15 m.
8. Calculate the Value of electric field exactly balancing the weight of an electron.
9. Two capacitors 3 farad & 6 farad are connected in series witha 6 V battery. Which one will have higher potential?
10. Calculate the net capacitance of the given network, if each capacitor is 5 microfarad.



11. If the plates of a charged capacitor are further separated while the capacitor is still connected to the charging battery, what will happen to the energy?
12. The V-I graph for two metals is shown below. Which one will have higher resistivity



13. How does a torque affect the dipole in an electric field?
14. 27 drops of same size are charged at 220V each. They collapse to form a bigger drop. Calculate the potential of the bigger drop.
15. Draw a plot showing the variation of electric field & potential with distance due to a point charge.
16. A wire of resistance 5 ohm is drawn out so that its length is increased to twice its original length. Calculate its original resistance.
17. A lamp of 100 W works at 220 volt. Calculate its resistance & current capacity?
18. Why are thick copper wires used as connecting wire?
19. Why is the use of a potentiometer preferred over that of a voltmeter for measurement of E.M.F of a cell?
20. Define resistivity of the material of a wire. State its S.I. unit.
21. The storage battery of a car has an E.M.F. of 12 V. If the internal resistance of the battery is 0.4 ohm, what is the maximum current that can be drawn from the battery

Experiments (Write in lab manual) ROHIT

SECTION–A

1. To determine resistivity of two / three wires by plotting a graph for potential difference versus current.
2. To find resistance of a given wire / standard resistor using metre bridge.
3. To verify the laws of combination (series) of resistances using a metre bridge.

   OR

   To verify the laws of combination (parallel) of resistances using a metre bridge.
4. To compare the EMF of two given primary cells using potentiometer.
5. To determine the internal resistance of given primary cell using potentiometer.
6. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
7. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.

   OR

   To convert the given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same.

SECTION-B

1. To find the value of v for different values of u in case of a concave mirror and to find the focal length.
2. To find the focal length of a convex mirror, using a convex lens.
3. To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and 1/v.
4. To find the focal length of a concave lens, using a convex lens.
5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence

RISHI GALAV PUBLIC SCHOOL

Summer Vacation Homework 2020-21

Class- XII

and angle of deviation.

6. To determine refractive index of a glass slab using a travelling microscope.
7. To find refractive index of a liquid by using convex lens and plane mirror.
8. To draw the I-V characteristic curve for a p-n junction diode in forward bias and reverse bias.
9. 9. To draw the characteristic curve of a zener diode and to determine its reverse breaks down voltage.

Business Studies

1. Study the projects for final practical examination as allotted in the class. Perform all rough sketch of the project. In case topic not allotted till date, contact teacher for allotment of topic.

2. Do any one activity:

- Make Mind-map of any 2 chapters of your book on chart papers.
- Make charts introducing Henry Fayol & F W Taylor and their contributions.
- Make charts introducing Corporate Social Responsibility [CSR] & what social activities any two organisation are doing during COVID-19.

Dear Parent,

School is missing its students. I hope you are utilising Lockdown period constructively for development of your child. School has conducted the online classes for the entire month of April. Almost 2-3 chapters of all subjects are finished. School is sending summer vacation homework to keep the students learning in the best possible manner. You are requested to help the student in completing the homework. In case of any query, contact +91 9109329218 [WhatsApp Message / SMS only]. See you after vacations.

Teachers & Principal