DELHI PUBLIC SCHOOL, SRINAGAR

Winter Assignment for Class 10th (Session 2016)

ENGLISH

Q. Write a Diary based on the chapter 'How I taught my grandmother to read'. Consider yourself as the grandmother. Word limit :80 to 100

This will be considered as a sub -component of FA 1 and it carries 8 marks.

URDU

سرمائی عملی کام برائے جماعت دہم

نظم   1. موضوع ''پانی کی آلودگی'' پر ایک پاور پوائنٹ پرزنٹیشن تیار کیجئے۔

2 ۔   اور نثر کی وضاحت تفصیل کے ساتھ کریں اور اردو ادب سے

مرزا   دونں کی چند بہترین مثالیں دیجئے۔

3.   غالبؔ کے لاجواب انداز بیان کے چند نمونے دیوانِ غالبؔ سے

پیش کیجئے۔

4.   اردو قواعو میں رموز و اوقاف کی کیا اہمیت ہے؟

5. سکتہ اور ختمہ کا استعمال بیان کیجئے۔

MATHEMETICS

Project 1:   **Geometry in real life.**
Can geometry be used in real life?
If yes where and how? Give Examples?

Project 2:   **Volume and surface area of Cube and Cuboid**
We know the formulae for finding the Volume and Surface Area of a Cuboid and Cube.
Are these formulae helpful in real life? How can we use them in real life situations?

Project 3:   Male - Female ratio
How much and how has the male female ratio changed over the generations?
What is the estimated Male Female ratio for the next generation taking in account the last 3 generation?

HINDI
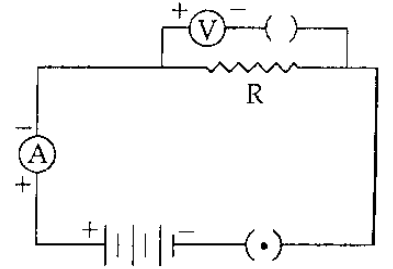
अभ्यास कार्य

कक्षा -दसवीं जमा करने की तिथि १०-३-१६

प्र० हिन्दी के प्रसिद्ध कहानीकार 'मुंशी प्रेमचंद' का प्रसिद्ध उपन्यास "गबन ' को पढ़कर उसका सार अपने शब्दों में लिखिए !

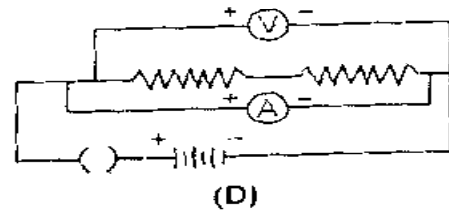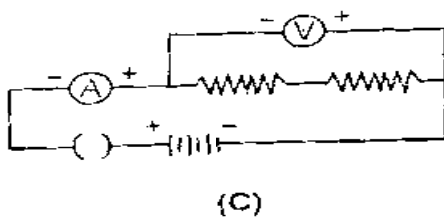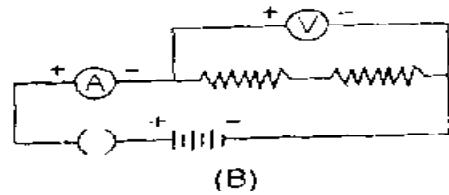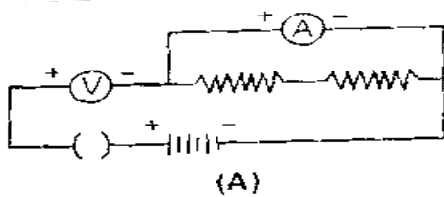(अभ्यास कार्य हस्तलिखित होना चाहिए)

PHYSICS

Q1.   For the circuit arrangement shown in the given figure, the student would observe
a) Some reading in both the ammeter and the voltmeter
b) No reading in either the ammeter and the voltmeter
c) Some reading in the ammeter and no reading in the voltmeter
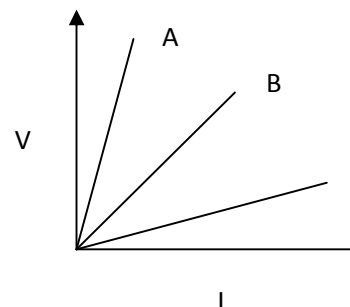d) No reading in the ammeter and some reading in the voltmeter

Q2.   To determine the equivalent resistance of two resistors when connected in series, the correct way of connecting the ammeter and voltmeter in the circuit is

Q3.   A student performs an experiment and plots the following graph for the two resistors R_1 and R_2 and their series combination. Which graph represents the series combination?

a)   A
b)   B
c)   C
d)   None of above

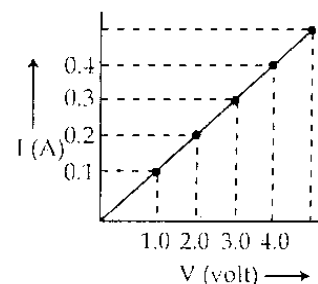Q4.   In a Voltmeter, there are 10 divisions between 0 mark and 0.5 V mark. The least count of the voltmeter is
a)   0.05 V
b)   0.01 V
c)   0.02V
d)   0.03 V

Q5.   When two or more resistors are connected in series, the physical quantity that remains same is
a)   Resistance   b)   Potential difference
c)   Current   d)   All of these

Q6.   In the experiment to study the dependence of current on potential difference across a resistor, a student obtained the graph as shown in diagram. The value of resistance of the resistor is:
a)   0.1 Ω
b)   1.0 Ω
c)   10 Ω
d)   100 Ω

Q7.   The Ammeter is always connected in
a)   Series with the device through which current is to be measured
b)   Parallels with the device through which current is to be measured
c)   Either in series or in parallels.
d)   None of above

Q8.   The device used to vary current in a circuit is:
a)   Ammeter   b)   Voltmeter
c)   Thermometer   d)   Rheostat

Q9.   The SI unit of a physical quantity is Ampere. The physical quantity is

a)   Current   b)   Charge
c)   Potential difference   d)   All of these

Q10.   The given wire made of material resistivity 'X' is stretched to double its length. The new resistivity of the wire is;
a)   2X

b)   X
c)   3 X
d)   X/2

Q11.   State two advantages of Hydro Power Plants?

Q12.   What is a good fuel? Give one example of good fuel.

Q13.   Why is Parallel arrangement used for domestic circuits?

Q14.   Why is Tungsten used almost exclusively for Filament of incandescent lamps?

Q15.   Draw a labelled diagram of a biogas plant.

Q16.   i.   Give the commercial unit of electrical energy.

       ii.   An electric heater of resistance 15 Ω takes a current of 10A. Calculate the heat developed in 5 s.

Q17.   i.   Derive the relation for the equivalent resistance of a combination of three resistors connected in
series.

       ii.   Show how would you connect three resistors each of resistance 3Ω so that the combination
              has a total resistance of (a) 9Ω.   (B) 1 Ω   (C) 2 Ω

Q18.   i.   What is electric Power? Write the expressions for electric power. Define the SI unit of
              electric power.
       ii.   An electric motor takes 5A current from a 220 V line. Calculate the power. Also calculate
              the energy consumed in 5 hours.

Q19.   Draw a diagram of a DC Motor to explain its construction and labell the following parts:
        Armature coil, Magnetic poles, Split rings, Brushes and Battery. What is the role of split rings?

SOCIAL SCIENE

Winter Assignment	Class : (10th)
SESSION	2015-16
SUBJECT	SOCAIL SCIENCE
Topic	NATURE'S FURY
Nature of task	Individual Activity
Learning Objectives	The students will explore the causes and numerous effects of earth tremors on humans along with mitigation strategies adopted by the government & people.
Duration	Winter vacation
Tools	The students will be required to use A-4 size ruled/ Blank sheets, colors, sketch pens, pictures of plate movements, earthquake hit people/ places.
Execution of task / Procedure	The students will prepare a write up based on: 10 most devastating earthquakes that have rocked India along with their year of occurrence and magnitude The estimated cause of earth tremor and aftershocks in Nepal, the epicenter & intensity. The mitigation strategies adopted by Nepal & Indian government.
Values imparted through the Activities	Awareness about the cause-effect relationship between the Earth and humans
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Learning Objectives	The students will explore the causes and numerous effects of earth tremors on humans along with mitigation strategies adopted by the government & people.
Duration	Winter vacation
Tools	The students will be required to use A-4 size ruled/ blank sheets, colors, sketch pens, pictures of plate movements, earthquake hit people/ places & resources, plus their creativity/ drawings
Execution of task / Procedure	The students will prepare a write up based on:. 10 most devastating earthquakes that have rocked India along with their year of occurrence and magnitude The estimated cause of earth tremor and aftershocks in Nepal, the epicenter & intensity. The mitigation strategies adopted by Nepal & Indian government.
Values imparted through the Activities	Awareness about the cause-effect relationship between the Earth and humans

Winter Assignment	Class : (10th)
SESSION	2015-16
SUBJECT	SOCAIL SCIENCE
Topic	Political parties
Content Coverage	Regional / state parties: - 1. National conference 2. peoples democratic party 3. Panthers party ANY REGIONAL/ STATE PARTY OF YOUR CHOICE
Learning Objectives	To enable students to understand the concept of Regional /state parties
	1. Use of written information 2. Use of newspaper / magazine clippings 3. Use of pictures 4. Use of maps to show their geographical location
Execution of task / Procedure	1. Choose any one regional / state party given above in the content coverage section. 2. Trace the: - 1. EVOLUTION 2.IDEOLOGY OF THE PARTY 3.LEADER OF THE PARTY 4. THEIR POLITICAL HISTORY 5.THEIR POLITICAL STATUS TODAY 6. THEIR GEOGRAPHICAL LOCATION 3. CONCLUSION : - why you have taken up this party ? give reasons
Duration	Winter vacations
Values imparted through the Activities	Values of democracy – liberty Equality fraternity