VIDYA VIHAR RESIDENTIAL SCHOOL
Parora, Purnea, Bihar

Summer Vacation Home Work
Class – Xth Session 2018-19

Biology| Mr. ATH

. Draw a colourful neat and clean diagram of the followings:-

(I) Human Digestive system
(II) Human Excretory system.
(III) Opening and closing of stomatal pore.

Physics | Mr. BPY

Section A

1. **If the current of 0.15 A flow through a wire for 60 sec then find the amount of charge that flows through the circuit.**
2. **If in an electric circuit the current passing through a conductor is doubled, What will be the change in heat produced?**
3. **What is the resistance of ideal Voltmeter? How much work is work is done in moving a charge of 4 C from a point of 220 V to another point of 230 volt?**
4. **What do you understand by the statement that the potential difference between two points is 1 volt?**
5. **Determine the value of minimum resistance that can be made using 6 resistors each If ¼ ohm.**

Section B

1. **What is the maximum number of 40 watt tube lights that can be connected in parallel which can safely from a 240 volt supply with 5 A fuse?**
2. **Why are the coils of electric posters made of an alloy rather than a pure metal?**
3. **A) The absence of which particles make certain materials insulators?**
   B) Give two examples of material referred in.
4. **Name the physical quantities having the following S.I. Units:-**
   a) Coulomb sect b) coulomb c) volt d) ohm.

5. An instrument is connected in series with the conductor through which current is flowing:

a) Name the instrument
b) Name the quantity measured by this instrument.

Section C

1. **A heater coil is rated 100 w, 200V. It is cut in two identical parts and both parts are connected together in parallel is the same sources of 200 V. Calculate energy liberated per sec in the new combination.**
2. **Define Kilowatt hour and power is 1 kWh = 3.6 $\times 10^6$ Joule.**
3. **Show that electric power is given by V^2/R. What is the S.I. unit of electric power?**
4. **What is mean by heating effect of electric circuit? Define an expression for it.**
5. **Define an expression for the equivalent resistance of a combination of then resistances connected in parallel.**

Section D

1. **How can you verify ohm's law in your laboratory?**
2. **How are substances classified on the basis of resistivity? Give one example of each class of substances.**

Section E

1. **Suppose you are working with an electric iron of resistances 20 Ohm and flowing current of 5 A. Can you calculate the heat developed by that iron in 0.5 min. Also find the same heat.**
2. **You are given with two different resistors of same material less-different thickness, and asked to tell, which one is of higher value without measuring them, how will you active the correct answer?**
3. **A student is asked to verify ohm's law experimentally Draw the circuit diagram that shows as appropriate arrangement.**

Chemistry | Mr. NR

Chapter : Chemical Reactions & Chemical Equation.

1. **Passage comprehension Type**
2. **Assertion – Reasoning Type**
3. **Matrix Matching Type**
4. **Subjective based question**
   (Foundation course for class X career Point)

Geography | Miss. SCH

Resource and development chapter.. (back exercise) all

History | Mrs. PR

Frame questions from sources given in the chapter Nationalism in India.

Civics | Mrs. PR

Exercise questions from chapter – 1.

Maths| Mr. GCS

Book R. S. Agarwal
Ex. 1 (A) – 3, 7, 8, 10
Ex. 1 (B) – 4, 9, 16, 17, 26
Ex. 1 (D) – 3 (V, VII, IX)
Ex. 1 (E) – 2, 6, 17, 19
Ex 2 (A) – 7, 14, 17, 19
Ex 2 (B) – 7, 10, 14
Ex 2 (C) – 1, 8, 21, 22, 23, 25
Ex. 3 (A) – 19, 22, 28, 29

Computer Science | Mr. A. K. Singh

Complete all the exercises of chapter 3.

English| Mr. CKJ

1. Story writing
2. Lesson 1 & 2 read and revise (Supplementary Reader).

English| Mrs. RM

Write a story with the help of the given hints and assign a suitable title to it.
Hints:
Park; an old man sitting on the bench; twilight; face covered with hat; walking stick lying on the ground; two urchings eating together from the same paper plate.

Hindi | Mr. AK / CKN

1. हिन्दी की चर्चित पांच लघुकथाएँ (लिखित रूप में) |
2. हिन्दी के चर्चित एकांकीकार विरचित 'दो एकांकी' (लिखित रूप में) |