

PALLAVAN UPV , JHALAWAR
SUMMER ASSIGNMENT
CLASS X – BIOLOGY

1. How exchange of gases take place in plants.
2. Differentiate between photosynthesis and respiration.
3. Explain the mechanism of breathing in human beings.
4. Define double blood circulation.
5. What is excretion? How is waste excreted from human body?
6. Explain the blood circulation in human beings.
7. Describe human digestive system in detail.

Chemistry
(Periodic table)

- Q1. Explain mendeleev's periodic law & characteristics of Periodic table.
- Q2. What were the limitations of Dobereiners classification.
- Q3. Name _____
- (a) Three elements that have a single electron in their outer most shells.
- (b) Three elements with filled outer most shells.
- Q4. What were the limitations of Newlands law of octaves.
- Q5. Explain modern periodic law & limitations of it's periodic table.

Class X computer

- Q.1 Make a chart of internet services.
- Q.2 What is difference between server and client (Min.3).
- Q.3 Explain the following:
- a. WWW b. Website & WebPagesc. Blogs d. URL e. HTTP

CLASS-10 PHYSICS Chapter –ELECTRICITY

1. Define the term "electric current.
2. Define the term 'resistivity' of a material.
3. How is a Voltmeter connected in the circuit to measure the potential difference between two points . 4.
4. You have two metallic wires of resistances 6 ohm and 3 ohm. How will you connect these wires to get the effective resistance of 2 ohm?
5. State Ohm's law. "The resistance of a conductor is 1Ω ." What is meant by this statement?
6. Why are coils of electric toaster made of an alloy rather than a pure metal?
7. Why is the series arrangement not used for domestic circuits?
8. A wire of resistivity 'r' is stretched to double its length. How does it affect the (a) resistance (b) resistivity?
9. Derive the equation for resultant resistance of Resistors in series
10. How much work is done in moving a charge of 3 coulomb from a point at the volts 115 to a point at 125 volts?[30j]
11. Study the following data and write which set of value should be rejected so that ohm's law holds good for the remaining set of values. Draw the graph and find out the mean resistance (3) V(volts) 2.5 5.0 10.0 15.0 20.0 25.0 I(A) 0.1 0.2 0.3 0.6 0.8 1.0
- 12 A wire of resistance 20 ohm is bent in the form of a closed circle. What is the effective resistance between the two points at the end of any diameter of the circle? 9
- 13 Two wires A and B are of equal lengths, different cross-sectional areas and made of the same metal. (i) Name the property which is same for both the wires. (ii) Name the property which is different for both the wires. (iii) If the resistance of wire A is four times the resistance of wire B, calculate (a)the ratio of the cross-sectional areas of the wires. (b)the ratio of the radii of the wires.

- 14.. A resistor of 8ohm is connected in parallel with another resistor X. The resultant resistance of the combination is 4.8 ohm . What is the value of X?
- 15 How will you connect three resistors of 2 ohm , 3 ohm , 5 ohm respectively so as to obtain a resultant resistance of 2.5 ohm ? Draw the diagram to show arrangement
16. A wire of resistance 5 ohm is bent in form of closed circle. What is the effective resistance between the two points at ends of any diameter of circle?
- 17 Why electrons flow in a wire when connected to a battery ? Q2 Define 1) Electric current 2) Potential difference
- 18 Find new resistance of wire if it is stretched to twice its original length. Original resistance was 20 ohm. Also how its resistivity will change .
- 19 Which combination we prefer for domestic circuit, parallel or series? Give reason
- 20 Find the total resistance in the diagram below.
- Q21 Why we use fuse in domestic circuit?
- Q22 Define 1) Resistivity 2) Electric circuit
- Q23 Find new resistance of wire which is doubled on itself. If Original resistance of wire is 50 ohm .
- Q24 Write factors affecting resistance of a wire .
- Q25 Explain working of bulb and fuse ?

CLASS X ENGLISH

READ ALL THE CHAPTERS OF BOTH THE BOOKS WHICH HAVE BEEN TAUGHT, LEARN THE MEANINGS AND ANSWER BY HEART.

Subject-Hindi

1. संज्ञा व सर्वनाम के प्रकारों का चार्ट बनाए व 5—5 उदाहरण लिखें।
2. कबीर व मीरा के 5—5 पदों को लिखें।
3. महिला सशक्तिकरण पर एक अनुच्छेद लिखें।