## DAV PUBLIC SCHOOL, KAILASH HILLS

2017-2018

Class X

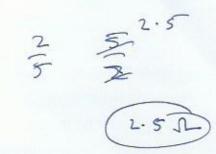
Periodic Test-II

Science

	Marks: 80
Time: 3hrs	(1)
Q.1. Which kind of mirror is used as a rear view mirror in vehicles?	(±)
Q.Z. Explain the mode of nutrition shown by mushrooms. Salors physic	(1)
y	when baking
Q.3. Give the chemical name of washing soda and its formula. What happens	(2)
soda is heated? Nazlez Sodiom Carbonate	
To dain with a suitable diagram and equations electrolytic refining of copper	. (2)
Q.4. Explain with a suitable and	s between
9.5. What is synapse? How is nerve impulse transmitted at synapse? & 500000	e ending ties) write the
Q.6. State two differences between metals and nonmetals.(chemical proper	(3)
equations and also give a suitable example.	Aen .
equations and also give a suitable example. Teacher with regulary was	ore (3 points)
Differentiate between roasting and calcination giving example of En	(3)
Q.7. Differentiate between roasting and calcination giving example of Zn Solkhitere (anomale one amalgams? Give the	composition of
Q.8. Why are alloys preferred over metals.	
brass and also one use.	
((u+lead) OR	
Explain Thermite reaction and also give its application.(write the equ	nation involved)
Explain Thermite reaction and also give its depression	(3)

Q.9. Discuss the role played by secretions of liver in the digestion process.	
Name the end products of digestion of fats? Partialy Digeston of Lipale	(3) Ang
Q.10. a) What are tropic movements? Give two examples of tropic movements.	
b) Name a plant hormone which causes wilting of leaves.	(3)
Q.11.a) Identify endocrine glands 'A' and 'B' in the	
figure.	
b) Name the hormones secreted by these glands and	
	3)
parint Good 1	
saration 1 00 1	
1 (A) along	
testis testistrone (testo sterone) (Adrenaline)	
Q.12. Draw ray diagrams and also state the position, size and nature of image formed	hya
0.12. Draw ray diagrams and also state the position, size and nature of image formed	C
convex lens when object is placed at a) 2F1 b) Between F1 and the optical centre O of lens.  Red = 1 mg	-42
a) 2F1  Det 12	2)
b) Between F <sub>1</sub> and the optical centre O of lens.	,2)
017000000000000000000000000000000000000	
Q.13. How far should an object be placed from a concave mirror of focal length 20cm to o	
its real image at a distance of 30cm from the mirror? What will be height of the image	II the
object is 6cm tall? – 15 cm	101
	(3)
0.14. In the circuit given below:	
5.2	\
	1-
	#2
32 22	
LMW MW-	
Pag Pag	e 2 of 5
140	
, H	

dr



- a) Find the equivalent resistance of the circuit . つ・ワル
- b) The current drawn from the battery. 1.6 A ( v=1R)

OR

State Joule's law of heating.

Find the amount of current flowing through an electric iron of resistance  $20\Omega$  if 15000J of heat is produced in it in 30sec. (3)

Q.15. Ravi was doing an experiment by using a voltmeter, unfortunately it fell from his hand and broke. Fearing the scolding from teacher his classmates advised him not to tell the teacher but he told her. On listening to him patiently, the teacher did not scold him as it was just an accident and used the opportunity to show the whole class the internal structure of voltmeter. a) Mention any two values displayed by Ravi.

b) What is the use of voltmeter? How is it connected in the circuit?

(3)

Q.16. a) Draw a ray diagram to show the path of light when it falls obliquely on a rectangular glass prism. Show that incident ray is parallel to the emergent ray of light.

b) Speed of light in glass is 2X10<sup>8</sup>m/s and its refractive index is 1.5. What is the speed of light in medium whose refractive index is 4/3? (5)

Q.17. a) When marble reacts with mineral acid HCL a gas is liberated. Identify the gas evolved and also give the test for the gas. Write the chemical reactions involved.

b) Explain the following reactions with suitable equations:

1. Precipitation reaction Insoluble substance is formed

2. Photochemical decomposition - Decomposition with sunlight & chemi

3. Redox reaction - oxidationa Reduction (5

Q.18. a) How are reflex actions different from voluntary responses? (three points of Differences).

spiral chord

Brau'n

CNS

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b) Raman met with an accident and suffered from brain injury. As a result he is not able to	
maintain body equilibrium.	
i) Which part of the brain might have been affected due to accident? (englished)	
ii) Name a structure which protects our brain during mild accidents. (encuric (5)	)
Q.19. What is meant by resistance of a conductor? List four factors on which resistance of conductor depends.  Opposite force, temp. Notice of modern length force.  An unknown resistor is connected across a cell of potential difference of 2V. A current of	a Section
200mA is recorded by ammeter connected in the circuit. Calculate the resistance of the	
resistor in ohms. (5	5)
Q.20. a) How do metals react with nonmetals? What type of bond is formed? State its	
characteristics. Show the bond formation in sodium chloride.	
b) What happens when Ferrous sulphate is heated? Write your observation and also identified	ify
the gas liberated.  Io nic Bond  Nat (2 Na) Fesoy = 15	)
Q.21.a) What are the different ways in which glucose is oxidized to provide energy in vario	us
organisms?	
b) Define double circulation. How many chambers are present in the heart of organisms w	ith —
double circulation?	
OR	
a) Write the three events occurring during the process of photosynthesis.	518
b) What are the differences between the transport of materials in xylem and phloem? (5	
U 1 ds	
Q.22. Identify parts 'A' and 'B' observed in a slide under microscope.	
Mantion one function performed by (P)	)
. Guard cell . Shoot toot	,
. Guerro Co . Shoot root	
6783	
B C L Z	
4 and	
Jonath	

2.23. In the experiment to show that CO2 is released during respiration, set up was arranged as in the figure given below:

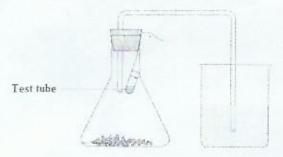


Fig: Production of carbon dioxide gas during respiration in conical flask

- a) Which substance is taken in test tube?
- b) Which observation makes us conclude that Co2 gas is produced during respiration? (2)

024. Give the significance of pH in digestive system What are anta acids? Name a compound of sodium used as anta acid.

Baking Soda Bases notrilize Acid (2)

Q25. What happens when magnesium ribbon reacts with dil. Sulphuric acid? Write the chemical reaction involved and identify the gas liberated.

(2)

Mg + H2504 

Mg So4 + H21

Q.26. a) Draw a schematic diagram of a circuit consisting of a cell of 1.5V,  $10\Omega$  and  $15\Omega$  resistors and a plug key all connected in series.

b) Mention any one disadvantage of the series combination.

Q.27. Mention any two differences between real image and virtual image. (2)

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