

(ii) What is the common name of the compound CaoCi<sub>2</sub>?3 (iii) What is neutralisation reaction? Give one example. Write equation also.

17. Write the main Function of nervous System?

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[P.T.O.]

- 18. Write any three differences between aerobic and anaerobic respiration.
- 19 What name is given to the glands that secrete hormones in humans? What are the main Function of hormones?
- 20. (a) Why are coils of electric toasters and electric irons made of an alloy rather than a pure metal?
  - An electric motor takes 5 amp from a 220V line. 5

    Determine the power of the motor and the energy consumed in 2 hrs.

## OR

Two Lamps, one rated 60W at 220V and the other 40W at 220V, are connected in parallel to the electric supply at 220V.

- (a) Draw a circuit diagram to show the connection.
- (b) Calculate the current drawn from the electric supply.
- (c) Calculate the total energy consumed by two Lamps together when they operate for one hour.
- 21. State Ohm's Law. Draw a graph between Voltage and current for a metallic Conductor. Draw a Circuit diagram of a Circuit which consists of battery, ammeter, Voltmeter, resistor, rheostat and a key.

## OR

- (a) State Fleming's Left hand rule
- (b) Name some devices in which electric motors are used.
- Name different types of Chemical reactions. Give one example of each.

## OR

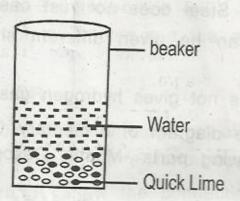
Difference between metals and non-metals (any five point)

23/ (a) Show the Formation of MgO by the transfer of electrons.

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(b) Name the Cation and anion
(c) Write the properties of ionic Compounds.
OR
Give reason for the following
(a) Gold and Platinum are used in Jewellery.
(b) Copper cannot displace hydrogen from dil. acids
(c) / Stainless Steel does not rust easily.
(d) Metals can be given different shapes according to ouneeds.
(e) Zinc does not gives hydrogen gas on reacting with HNO
Draw the diagram of alimentary Canal of man and laber the following parts -Mouth, Oesophagus, Stomach, intestine.
(b) Where do Carbohydrates, proteins and Fats get digeste in human beings?
her saw meters and the notice OR tose of the system was left
What is the advantage of having Four-Chambered heart? Draw neat and clean labelled diagram of huma heart.
25. SECTION B
For rusting of iron, the essential requirement is -
(a) air (b) water
(c) Open Surface Metal (d) All of the above
26. pH of pure water is
(a) 3 3 4 4 6 6 (b) 7 6 6 (c) 7
(c) 10 (d) 9
27. The acidic nature of hydrochloric acid is due to the present of which one of the following ions in solution
(a) Hydrogen ions (b) Chloride ions

- (c) Hydroxide ions
- (d) Sulphide ions
- 28. Which one of the following is observed when water and quick Lime are mixed :
  - (a) A vigrous reaction takes place
  - (b) Outer surface of beaker becomes hot
  - (c) Water vapour comes out of the beaker
  - (d) All of the above

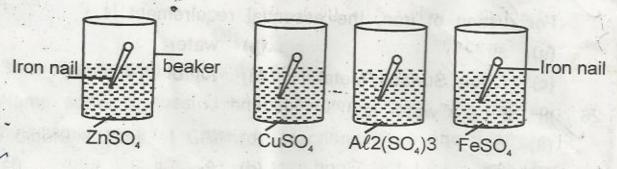


- 29. Solution of Zinc Sulphate(I), Copper Sulphate(II), Aluminium Sulphate(III), Iron Sulphate(IV) were taken in four beaker. An Iron nail was put in each solution and the system was left undisturbed for about an hour. In which Setup or set the iron nail would be coated.
  - (a) I and II

(b) II and III

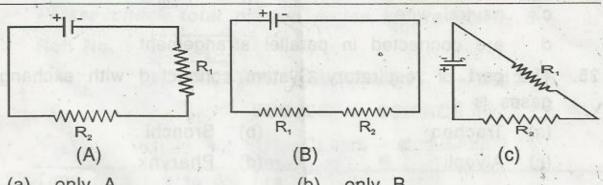
(c) only in II

(d) only in IV



30. Two resistances R<sub>1</sub> and R<sub>2</sub> are connected in series Combination. Which of the following Figure shows the correct combination?

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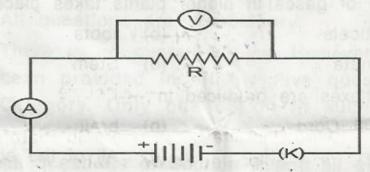


(a) only A

(b) only B

(c) only C

- (d) All the Figures
- 31. Which two Circuit Components are connected in parallel in the following Circuit diagram?



- (a) Key and Voltmeter
- (b) Voltmeter and resistor
- (c) Voltmeter and ammeter
- (d) Ammeter and resistor
- 32.  $V\alpha I$ . This relation was given by -
  - (a). Faraday

(b) Watt

(c) Ohm

- (d) Coulomb
- 33. Resistance of a Conductor depends on -
  - (a) its length

- (b) Area of Cross-Section
- (c) Material of the Conductor
- (d) All the above
- 34. Electric appliances having metallic body, are connected with for safety purpose
  - a. a Fuse wire

b. an earthing

-				
	C.	neutral wire		AND THE PARTY OF T
	d.	are connected in paralle	el arr	angement
35.	The	part of respiratory Syst	em d	connected with exchange
		es is -		
	(a)	Trachea	(b)	Bronchi
	(c)	Alveoli	(d)	Pharynx (A)
36./	Saliv	ary amylase acts upon -	-	(a) only A
0,	(a)	Fats Path 14 - 19	(b)	proteins
	(c)	Starch	(d)	Glucose
37. /	Exch	ange of gases in higher	plan	ts takes place through -
/	(a)	Centicels	(b)	roots
	(c)	Stomata	(d)	Stem
38./	Spina	al reflexes are produced	in -	
		Spinal Cord	(b)	brain
	(c)	Heart	(d)	All of the above
39./	The	hormone that is used to	keep	flowers fresh is -
~		Auxin	(b)	SIMPLIFICA DUR ARV (B)
	(c)	cytokinin	(d)	ethylene
		h one of the following ng indigestion?	HISTH	of medicines is used for
	(a)	Antibiotic	(b)	Analgasic
	(c)	Antacid (d)	(d)	Antiseptic
41./	Whic	h of the following elemen	nts is	a non metal?
10836	(i)	7 X (ii) 24 Y 12		(iii) 35 Z
42.	f a	charge flows in a circuit	in t	second, the current will be
	(a).	Qxt ampere	(b)	Qxt <sup>2</sup> ampere
2 to 1	(c)	$\frac{t}{Q}$ ampere.	(d)	Q <del>*</del> ampere