2.	Which	among the following is an olfactory receptor?
	(A)	Vanilla
	(B)	Groundnut
	(C)	Tomato
	(D)	Carrot
3.	Hydro	ogen ions cannot exist alone. Hence it is always shown as
	(A)	$\mathrm{H^{+}}$ (aq) or $\mathrm{H_{3}O^{-}}$
	(B)	$\mathrm{H}^{\scriptscriptstyle +}$ (aq) or $\mathrm{H}_{\scriptscriptstyle 3}\mathrm{O}_{\scriptscriptstyle 2}$
	(C)	$\mathrm{H^{\scriptscriptstyle{+}}}$ (aq) or $\mathrm{H_3O^{\scriptscriptstyle{-}}}$
	(D)	$\mathrm{H^{\scriptscriptstyle +}}\ (\mathrm{aq})\ \mathrm{or}\ \mathrm{H_2O_2}$
4.	Sonal	i had tooth decay because her pH of the mouth was
	(A)	Higher than 5.5
	(B)	Lower than 5.5
	(C)	Equal to 5.5
	(D)	Lower than 6.6
5.	Fuel	used in Thermal Power plant is
	(A)	Plutonium
	(B)	Uranium
	(C)	Water
	(D)	Fossil fuel

6.	Magn	esium ribbon is rubbed before burning because it has a coating of	
	(A)	Magnesium chloride	
	(B)	Magnesium sulphide	
	(C)	Magnesium oxide	
	(D)	Magnesium iodide	
7.	Bariu	m chloride reacts with sulphuric acid to give barium sulphate	and
	hydro	chloric acid. The balanced equation is	
	(A)	$\mathrm{BaCl_2} \ + \ \mathrm{H_2SO_4} \longrightarrow \ \mathrm{BaSO_4} \ + \ \mathrm{H_2Cl}$	
	(B)	$\mathrm{BaCl_2} \ + \ \mathrm{H_2SO_4} \longrightarrow \ \mathrm{BaSO_4} \ + \ \mathrm{H_2Cl}$	
	(C)	$\mathrm{BaCl_2} \ + \ \mathrm{H_2SO_4} \longrightarrow \ \mathrm{BaSO_4} \ + \ 2\mathrm{HCl}$	
	(D)	$\mathrm{BaCl_2} \ + \ \mathrm{H_2SO_4} \longrightarrow \ 3\mathrm{BaSO_4} \ + \ 3\mathrm{HCl}$	
8.	A par	t of the solar cooker which is responsible for greenhouse effect is	···· ·
	(A)	Mirror	
	(B)	Glass sheet	
	(C)	Black coating inside the box	
	(D)	Outer covering of the box	
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9.	The	gas liberated when a metal reacts with a base is
	(A)	Nitrogen
	(B)	Hydrogen
	(C)	Oxygen
	(D)	Carbon dioxide
10.	A slı	urry which is removed from the biogas plant is rich in
	(A)	Nitrogen and calcium
	(B)	Phosphorus and carbon dioxide
	(C)	Nitrogen and phosphorus
	(D)	Nitrogen and potassium
11.	A٠	The state of the s
	The	function of part A seen in the figure is
	(A)	Information acquired at its end
	(B)	Converts chemical signal
	(C)	Converts mechanical signal
	(D)	Information travels in the form of shock

12.	An a	lloy of Cu and Zn is
	(A)	Bronze
	(B)	Nichrome
	(C)	Brass
	(D)	Solder
13.	$Na_2S$	$O_4 + BaCl_2 \longrightarrow 2NaCl + BaSO_4$
	In th	is reaction the precipitate obtained is
	(A)	Yellow precipitate of NaCl
	(B)	White precipitate of $Na_2SO_4$
	(C)	Orange precipitate of $\mathrm{BaCl}_2$
	(D)	White precipitate of ${\rm BaSO}_4$
14.	Char	nges in the environment due to which an organism responds is
	called	l
	(A)	Hormone
	(B)	Response
	(C)	Coordination
	(D)	Stimulus

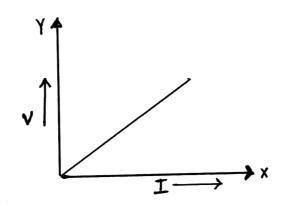
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15.	Fe +	$\text{CuSO}_4 \longrightarrow \text{FeSO}_4 + \text{Cu}$
	Less	reactive metal in the above reaction is
	(A)	Iron
	(B)	Sulphur
	(C)	Oxygen
	(D)	Copper
16.	A pai	rt of the brain which controls breathing in human body is
	(A)	Hypothalamus
	(B)	Cerebrum
	(C)	Medulla
	(D)	Cerebellum
17.	A pro	cess of changing carbonate ores into oxides in limited supply of oxygen
	is	
	(A)	Calcination
	(B)	Oxidation
	(C)	Roasting
	(D)	Refining
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18.	A me	thod of contraception which protects from acquiring sexually transmitted
	diseas	se
	(A)	Condoms
	(B)	Copper-T
	(C)	Oral pills
	(D)	Surgery
19.	An el	ectric motor takes 15 A from 220 V line. Its energy consumed in 2 hours
	will b	oe
	(A)	4.3 KWh
	(B)	2.5 KWh
	(C)	6.6 KWh
	(D)	1.1 KWh
20.	Bana	na, Jasmine and Orange have lost their capacity to produce
	(A)	Buds
	(B)	Flower
	(C)	Roots
	(D)	Seeds

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- (A) Insulin
- (B) Adrenaline
- (C) Testosterone
- (D) Thyroxine



- (A) Resistance
- (B) Conductivity
- (C) Resistivity
- (D) Electric charge

23.	If wa	ter is added to a concentrated Nitric acid, the mixture splashes	s out
	causir	ng burns because it is a highly reaction.	
	(A)	Endothermic	
	(B)	Thermal	
	(C)	Combination	
	(D)	Exothermic	
24.	Type	of reproduction seen in Hydra is	
	(A)	Spore formation	
	(B)	Fragmentation	
	(C)	Budding	
	(D)	Binary fission	
25.		egg is carried from the ovary to the womb through a thin	tube
	(A)	Ureter	
	(B)	Oviduct	
	(C)	Vas deferens	
	(D)	Oesophagus	
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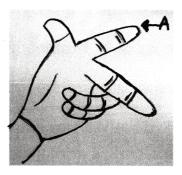
26.	When	calcium reacts with water it starts floating because		
	(A)	Bubbles of oxygen are formed		
	(B)	Bubbles of carbon dioxide are formed		
	(C)	Bubbles of nitrogen are formed		
	(D)	Bubbles of hydrogen are formed		
27.	Defici	ency of growth hormone leads to dwarfism. A gland which secretes this		
	hormone is			
	(A)	Pituitary		
	(B)	Adrenal		
	(C)	Pancreas		
	(D)	Thyroid		
28.	A cir	cuit has a charge of 3C moving through it in 4 sec. An electrical		
	compo	onent will show the current as		
	(A)	12 A		
	(B)	0.75 A		
	(C)	0.1 A		
	(D)	0.45 A		
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29.	Magn	etic field lines around a current carrying a straight conductor indicates
	a pat	tern of
	(A)	Straight lines
	(B)	Concentric circles
	(C)	Square shape
	(D)	Rectangular shape
30.	Overl	oading is due to:
	(i)	When live wire and earth wire come in contact
	(ii)	When the live wire and neutral wire come in contact
	(iii)	Fault in the appliances
	(iv)	Accidental hike in supply voltage
	(A)	Only (i) is correct
	(B)	Only (ii), (iii) and (iv) are correct
	(C)	Only $(ii)$ and $(iv)$ are correct
	(D)	Only (i) and (iv) are correct
31.	When	an ova does not fertilize in females, the cycle which takes place
	is	
	(A)	Implantation
	(B)	Menopause
	(C)	Fertilization
	(D)	Menstruation

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- (A) Battery
- (B) Switch
- (C) Electric bulb
- (D) Rheostat



- (A) Force
- (B) Field
- (C) Current
- (D) Direction

34.	A sol	enoid behaves like a magnet because
	(A)	Magnetic field lines are in the form of parallel straight lines
	(B)	Magnetic field lines cross each other
	(C)	Magnetic field lines are perpendicular
	(D)	Magnetic field lines intersect each other
35.	A de	vice which reverses the direction and flow of current in an electric
	motor	is
	(A)	commutator
	(B)	battery
	(C)	gear
	(D)	bar magnet
36.	Teste	s located in the scrotum are present outside the abdominal cavity
	becau	se
	(A)	Temperature of scrotum is very high
	(B)	Temperature of scrotum is less than the body temperature
	(C)	Temperature of scrotum is moderate
	(D)	Temperature of scrotum is below 0 degrees

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37.	Sham	a was advised by his physician to take less sugar in his diet as he was
	suffer	ring from a disease called
	(A)	Goitre
	(B)	Cancer
	(C)	Blood pressure
	(D)	Diabetes
38.	A pe	riod of adolescence when reproductive tissues begin to mature
	is	······································
	(A)	Reproduction
	(B)	Puberty
	(C)	Propagation
	(D)	Germination
39.	An e	lectric iron draws a current of 4 A connected to 320 V mains. Its
	resist	ance will be
	(A)	$1000~\Omega$
	(B)	80 Ω
	(C)	$44~\Omega$
	(D)	1280 $\Omega$
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40.	Gases	s filled in an electric bulb in order to prolong the life of the filament
	are	······································
	(A)	Nitrogen and argon
	(B)	Nitrogen and hydrogen
	(C)	Argon and hydrogen
	(D)	Argon and ammonia

## Space For Rough Work