a.	exothermic reactions
b.	salts
	SO3
	both
	Walli Dian
2. The r	eaction Cu + xHNO3 (cone.) $\rightarrow$ Cu(NO3)2 + yNO2 + zH2O The values of x, y and z are
	,and
	4
	2 4, 2 and 2
	0
/	
3 Gust	atory rec <mark>ept</mark> ors will detect
J. Gust	atory receptors will detect
	a. light
	b. Smell
	c. Touch
(LS)	d. Taste
4. Right	part of the human heart contains
	a. Oxygenated blood
	b. Deoxygenated blood
	c. Mixed blood
	d. No blood
	ransport of soluble products of photosynthesis is called translocation and it occurs in the part of
the vaso	cula <mark>r tiss</mark> ue called
a. Xyler	n
b. Scler	renchym
c. Phloe	em

6. In human each kidney has large numbers of filtration units called
a Neutrons
b. Neurons
c. Neptune
d. Nephrons
7. The element used as the index of the wealth of a country is –
a. Platinum
b. Aluminum
c. Gold
d. Mercury
8. The soldering wire is an alloy of
a. Copper and tin
b. Lead and tin
c. Aluminium and lead
d. Copper and aluminium
9. The stainless steel is an alloy of –
a. Iron, nickel and chromium
b. Iron and nickel

c. Iron and chromium

d. Nickel and chromium

10. Subsequent members of homologous series differ by how many atomic mass units?
a. 16
b. 14
c. 24
d. 28
11. The organic compounds having functional group are known as:
a. Aldehyde
b. Ketone
c. Carboxylic acids
d. Alcohol
0 0 =
12. Cooking oils contain
a. Saturated hea <mark>lthy acid</mark> s
b. Saturated acids
c. Unsaturated healthy acids
d. Unsaturated fatty acids
13. An atom of an element has the electronic configuration 2, 8, 2. To which group does it belong?
a. 2nd group
b. 4th group
c. 6th group
d. 3rd group

a. atomic number
b. density
c. atomic weight
d. melting point
15. In which group are inert elements placed? '
a. Group 8
b. Group 10
c. Group 1
d. Group 18
16. 'Dupp' sound is produced during closure of:
a. Biscuspid valve
b. Semilunar valves
c. Tricuspid valve
d. Both (b) and (c)
17. Typical 'lubb-dupp' sounds heard during heartbeat are due to :
a Closing of bicuspid and tricupid valves

14. In modern periodic table, elements are arranged according to their

b. Closing of semilunar valves

d. Blood under pressure through aorta

c. Closure of bicuspid-tricuspid valves followed by semilunar valves

a. Oesophagus
b. Stomach
c. Mouth
d. Ileum
19. Which of the following is an involuntary action?
a. Whispering b. Beating of heart
c. None of the above
d. Hitting a volleyball
20. Accidents can happen due to motion of the body.
a. Coordinated
b. Both A and B
c. Uncoordinated
d. None of the above
21. Dancing is a activity.
a. Voluntary
b. Coordinated
c. None of the above
d. Both A and B

18. The part of the digestive system where no digestion takes place is

<ul><li>a. virus</li><li>b. protozoa</li><li>c. Plasmodium</li><li>d. bacteria</li></ul>	
23. Which of the following is the correct sequence of events of sexual repro a. pollination, fertilisation, seedling, embryo	duction in a flower?
b. seedling, embryo, fertilisation, pollination	
c. pollination, fertilisation, embryo, seedling	
d. embryo, seedling, pollination, fertilization	
24. Characters that are transmitted from parents to offspring during reprod  a. only similarities with parents	uction show
b. only variations with parents	
c. neither similarities nor variations	
d. both similarities and variations with parents	N A
25. If the fossil of an organism is found in the deeper layers of Earth, then was a the extinction of organism has occurred thousands of years ago b. the extinction of organism has occurred recently c. the fossil position in the layers of Earth is not related to its time of extinct d. time of extinction cannot be determined	

22. AIDS is a sexually transmitted disease caused due to an infection by a

26.A trait in an organism is influenced by
a. paternal DNA only
b. maternal DNA only
c. both maternal and paternal DNA
d. neither by paternal nor by maternal DNA
27. Select the group which shares maximum number of common characters.
a. two genera of two families
b. two genera of a family
c. two species of a genus
d. two individuals of a species
28. If the object is placed at focus of a concave mirror, the image is formed at
a. focus
b. infinity
c. centre of curvature
d. between F and O.
29. The F2 phenotype ratio of a monohybrid cross studied by Mendel is
a.1:1
b.2:1
c. 3:1
d. 4:1

Mendelism?
a. TT
b. Tt
c. tt
d. Either TT or Tt
31. One can not see through fog because:
a. light is scattered by the droplets in fog
b.light surfers total reflection by the droplets in the fog
c. the refractive index of fog is in infinity
d. fog absorbed <mark>light</mark>
32. The rising and setting of sun appear red because of :
a. reflection
b. defraction
c. scattering
d. refraction
33. A rainbow can be seen in the sky
a. When the sun is in front of you.

b. Only at the time of sun rise.

c. When the sun is overhead.

d. When the sun is behind you.

a. 3	
b.1.2	
c.12	
d. 0.3	
3 <mark>5. C</mark> onsi	der a circuit which contains a resistance free battery and a single resistance \$\$R\$\$ . If a
second re	esistance is added in <mark>parallel</mark> wit <mark>h \$\$R\$\$</mark> .
a. The vo	ltage across \$\$R\$\$ will decrease
b. The cu	rrent through \$\$R\$\$ will increase
c. The tot	cal current drawn from the battery will increases
d. The po	wer d <mark>issipated</mark> in \$\$R\$\$ will decrea <mark>se current drawn</mark> from battery will increase
36 Coin	placed in a bowl when seen from a place just disappears. When water is poured into the bowl
	disturbing the coin, the coin
a. Will no	ot be seen
b. Appea	rs above the water surface
c. Appeai	rs very much deep inside the water
	es visible again
37 In ou	r houses we receive AC electric power of with a frequency of
a. electric	
b. 220V, !	50 Hz.
c. Magne	tic field

o color	naid
a. soler	
b. met	allic
c. s	
d. lines	alent Sea
39. Fie	eld lines are shown closer together where the magnetic field is
a. none	
b. curre	ent
c. elect	rric
d. Grea	ater
110	
	e energ <mark>y availa</mark> ble due to the differenc <mark>e in the temper</mark> ature of water at the <mark>surface</mark> of the ocean deeper levels is called :
a. tidal	energy
b. none	e of these
c. wind	d energy
d. sola	ir energy
41. In a	a neutral atom ne and np represent number of electrons & protons, then :
a. ne =	· np
b. ne >	- np
c. None	e of these
d. ne <	

- 42. The mass of an  $\alpha$  particle is :
- a. Equal to sum of masses of two protons and two neutrons
- b. Equal to mass of four neutrons
- c. Equal to mass of four protons
- d. Less than sum of the masses of 2 protons & 2 neutrons
- 43. Which of the following chemical equations is an unbalanced one
- a. 2NaHCO3 → Na2CO3 + H2O + CO2
- b.  $2AI + 6H2O \rightarrow 2AI(OH)3 + 3H2$
- c. 2C4H10 + 12O2 → 8CO2 + 10H2O
- d.  $4NH3 + 5O2 \rightarrow 4NO + 6H2O$
- 44. Symbol Δ used while representing some chemical changes stands for -
- a. light
- b. pressure
- c. catalyst
- d. heat
- 45. The best way to dispose waste is by
- a. Making a paste of all domestic waste and putting them in a river
- b. Throw the waste on road side
- c. Dumping all domestic waste in litter bin
- d. Separating biodegradable and non biode gradable waste before disposing in bins

## **Answer Sheet:**

1.B 2.C 3.D 4.B 5.C 6.D 7. C 8.D 9.A 10.B 11.C 12.D 13.A 14.A 15.D 16.B 17.C 18.A 19.B 20.C 21.D 22.A 23.C 24.D 25.A 26.C 27.D 28.B 29.C 30.D 31.A 32.C 33.D 34.A 35.C

