Science

Exam Time : 01:00:00 Hrs

Total Marks : 60

60 x 1 = 60

1) Which of the statements about the reaction below are incorrect?

$2PbO(s) + C(s) \rightarrow 2Pb(s) + CO_2(s)$

(a) Lead is getting reduced

(b) Carbon dioxide is getting oxidized

(c) Carbon is getting oxidized

(d) Lead oxide is getting reduced.

(a) (a) and (b) (b) (a) and (c) (c) (a), (b) and (c) (d) All of these

2) $Fe_2O_3 + 2Al \rightarrow Al_2O_3 + 2Fe$.

The reaction is an example of a

(a) Combination of reaction (b) Double displacement reaction

(c) Decomposition reaction (d) Displacement reaction.

3) What happens when dilute hydrochloric acid is added to iron fillings? Tick the correct answer

(a) Hydrogen gas and Iron chloride are produced.

(b) Chloride gas and Iron hydroxide are produced. (c) No reaction takes place

(d) Iron salt and water are produced

4) Which of the following is not a physical change?

(a) Boiling of water to give water vapour. (b) Melting of ice to give water.

(c) Dissolution of salt in water.

(d) Combustion of Liquefied Petroleum Gas(LPG).

5) A solution turns red litmus blue; its pH is likely to be?

(a) 1 (b) 4 (c) 5 (d) 10

6) A solution reacts with crushed egg-shells to give a gas that turns lime-water milky. The solution contains.

(a) NaCl (b) HCl (c) LiCl (d) KCl

7) 10 ml of a solution of NaOH is found to be completely neutralised by 8 ml of a given solution of HCl. If we take 20 ml of the same solution of NaOH, the amount HCl solution (the same solution as before) required to neutralise it will be

(a) 4 ml (b) 8 ml (c) 12 ml (d) 16 ml

8) Which one of the following types of medicines is used for treating indigestion?

(a) Antibiotic (b) Analgesic (c) Antacid (d) Antiseptic

9) Which of the following pairs will give displacement reactions?

(a) NaCl solution and copper metal (b) $MgCl_2$ solution and aluminium metal

(c) $FeSO_4$ solution and silver metal (d) $AgNO_3$ solution and copper metal

10) Which of the following methods is suitable for preventing an iron frying pan from rusting?

(a) Applying grease (b) Applying paint (c) Applying a coating of zinc

(d) All of the above

11) An element reacts with oxygen to give a compound with a high melting point. This compound is also suitable in water. The element is likely to be

(a) Calcium (b) Carbon (c) Silicon (d) Iron

12) Food cans are coated with tin and not with zinc because

(a) Zinc is costlier than tin (b) Zinc has a higher melting point than tin

(c) Zinc is more reactive than tin (d) Zinc is less reactive than tin

13) Ethane, with the molecular formula C_2H_6 has

(a) 6 covalent bonds (b) 7 covalent bonds (c) 8 covalent bonds

(d) 9 covalent bonds

14) Butanone is a four-carbon compound with the functional group

(a) carboxylic acid (b) aldehyde (c) ketone (d) alcohol

15) While cooking, if the bottom of the vessel is getting blackened on the outside, it means that

(a) the food is not cooked completely. (b) the fuel is not burning completely.

(c) the fuel is wet. (d) the fuel is burning completely.

16) Which of the following statements is not a correct statement about the trends when going from left to right across the periods of periodic Table?

(a) The elements become less metallic in nature.

(b) The number of valence electrons increases.

(c) The atoms lose their electrons more easily.

(d) The oxides become more acidic.

17) Element X forms a chloride with the formula XCl_2 , which is a solid a high melting point. X would most likely be in the same group of the Periodic Table as :

(a) Na (b) Mg (c) Al (d) Si

18) The kidneys in human beings are a part of the system for

(a) Nutrition (b) Respiration (c) Excretion (d) Transportation

19) The xylem in plants is responsible for

(a) Transport of water (b) Transport of food (c) Transport of amino acids

(d) Transport of oxygen

20) The autotrophic mode of nutrition requires

(a) Carbon dioxide and water (b) Chlorophyll (c) Sunlight (d) All of the above

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4	*MATHS*	24	*SOCIAL*
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6	*SOCIAL*	26	*SCIENCE*
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12	*MATHS*	24	*MATHS*
13	*SCIENCE*	25 SUN	*SCIENCE/ENGLISH*
14	*SOCIAL*	26	*SOCIAL*
15	*MATHS*	27	*MATHS*
16	*SCIENCE*	28	*SCIENCE*
17	*SOCIAL*	29	*SOCIAL*
18 SUN	*MATHS*	30	*MATHS*
19	*SCIENCE*	FEB 1	*SCIENCE*
20	*SOCIAL*	2 SUN	*SOCIAL*
21	*MATHS*	3	*MATHS*

21) The breakdown of pyruvate to give carbon dioxide, water and energy takes place in

(a) Cytoplasm (b) Mitochondria (c) Chloroplast (d) Nucleus

22) Which of the following is the plant hormone?

(a) Insulin (b) Thyroxin (c) Oestrogen (d) Cytokinin

23) The gap between two neurons is called a

(a) Dendrite (b) Synapse (c) Axon (d) Impulse

24) The brain is responsible for

(a) Thinking (b) Regulating the heart beat (c) Balancing the body

(d) All of the above

25) Asexual reproduction takes place through budding in

(a) amoeba (b) yeast (c) plasmodium (d) leishmania

26) Which of the following is not a part of the female reproductive system in human beings?

(a) Ovary (b) Uterus (c) Vas deferens (d) Fallopian

27) The anther contains

(a) sepals (b) ovules (c) carpel (d) pollen grains

28) A mendelian experiment consisted of breeding tall pea plants bearing violet flowers with short pea plants bearing white flowers. The progeny all bore violet flowers, but almost half of them were short. This suggests that the genetic make-up of the tall parent can be depicted as

(a) TTWW (b) TTww (c) TtWW (d) TtWw

29) An example of homologous organs is

(a) Our arm and a dog's fore-leg (b) Our teeth and an elephant's tusks.

(c) Potato and runners of grass. (d) all of the above

30) In evolutionary terms, we have more in common with

(a) A Chinese school-boy. (b) A chimpanzee (c) A spider (d) A bacterium

31) Which one of the following materials cannot be used to make a lens?

(a) Water (b) Glass (c) Plastic (d) Clay

32) The image formed by a concave mirror is observed to be virtual, erect and larger than the object.Where should be the position of the object?

(a) Between the principal focus and the centre of curvature

(b) At the centre of curvature (c) Beyond the centre of curvature

(d) Between the pole of the mirror and its principal focus.

33) Where should an object be placed in front of a convex lens to get a real image of the size of the object?

(a) At the principal focus of the lens (b) At twice the focal length (c) At infinity

(d) Between the optical cantre of the lens and its principal focus

34) A spherical mirror and a thin spherical lens have each a focal length of - 15 cm. The mirror and the lens are likely to be

(a) both concave (b) both convex

(c) the mirror is concave and the lens is convex.

(d) the mirror is convex, but the lens is concave.

35) No matter how far you stand from a mirror, your image appears erect. The mirror is likely to be

(a) plane (b) concave (c) convex (d) either plane or convex

36) Which of the following lenses would you prefer to use while reading small letters found in a dictionary?

(a) A convex lens of focal length 50 cm (b) A concave lens of focal length 50 cm

(c) A convex lens of focal length 5 cm (d) A concave lens of focal length 5 cm

37) The human eye can focus objects at different distances by adjusting the focal length of the eye lens. This is due to

(a) Presbyopia (b) Accommodation (c) Near sightedness (d) Far sightedness

38) The human eye forms the image of an object at its

(a) Cornea (b) Iris (c) Pupil (d) Retina

39) The least distance of distinct vision for a young adult with normal vision is about

(a) 25 m (b) 2.5 cm (c) 25 cm (d) 2.5 m

40) The change in the focal length of an eye lens is caused by the action of the

(a) Pupil (b) Retina (c) Ciliary muscles (d) Iris

41) A piece of wire of resistance R is cut into five equal parts. These parts are then connected in parallel. If the equivalent resistance of this combination is R' then the ratio R/R' is

(a) 1/25 (b) 1/5 (c) 5 (d) 25

42) Which of the following terms does not represent electrical power in a circuit?

(a) I^2R (b) IR^2 (c) VI (d) V^2/R

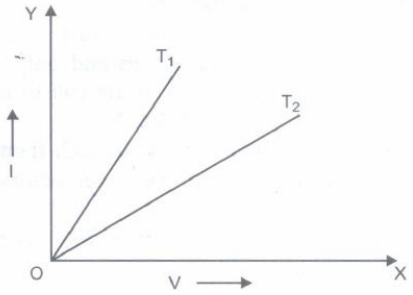
43) An electric bulb is rated 220 V and 100 W. When it is operated on 110 V, the power consumed will be

(a) 100 W (b) 75 W (c) 50 W (d) 25 W

44) Two conducting wires of the same material and of equal lengths and equal diameters are first connected in series and then parallel in a circuit across the same potential difference. The ratio of heat produced in series and parallel combination would be

(a) 1:2 (b) 2:1 (c) 1:4 (d) 4:1

45) For metallic conductor voltage uses current graph is shown at two different temperatures T_1 and T_2From the graph it follows:



(a) $T_1 = T_2$ (b) $T_1 > T_2$ (c) $T_1 < T_2$ (d) None of above

46) The magnetic field inside a long straight solenoid-carrying current

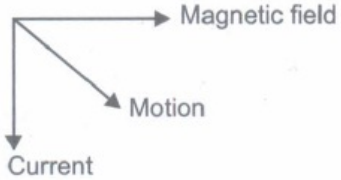
(a) is zero (b) decrease as we move towards its end

(c) increases a swe move towards its end (d) is the same at all points.

47) Which of the following property of a proton can change while it moves freely in a magnetic field ?

(a) mass (b) speed (c) velocity (d) momentum

48) A positively charged particle (alpha-particle) projected towards west is deflected towards north by a magnetic field. The direction of magnetic field is



(a) towards south (b) towards east (c) downward (d) upward

49) A rectangular coil of copper wire is rotated in a magnetic field. The direction of the induced current changes once in each

(a) Two revolutions (b) One revolution (c) Half revolution

(d) One-fourth revolution

50) Which of the following correctly describes the magnetic field near a long straight wire ?

(a) The field consists of straight lines perpendicular to the wire.

(b) The field consists of straight lines Parallel to the wire.

(c) The field consists of radial lines originating from the wire.

(d) The field consists of concentric circles centred on the wire.

51) The phenomenon of electromagnetic induction is

(a) the process of charging a body.

(b) the process of generating magnetic field due to a current passing through a coil.

(c) producing induced current in a coil due to relative motion between a magnet and the coil.

(d) the process of rotating a coil of an electric motor.

52) The device used for producing electric current is called a

(a) generator (b) galvanometer (c) ammeter (d) motor

53) The essential difference between an AC generator and a DC generator is that

(a) AC generator has an electromagnet while a DC generator has permanent magnet.

(b) DC generator will generate a higher voltage.

(c) AC generator will generate a higher voltage

(d) AC generator has slip rings while the DC generator has a commutator.

54) At the time of short circuit, the current in the circuit

(a) reduces substantially (b) does not change (c) increases heavily

(d) vary continuously

55) A solar water heater cannot be used to get hot water on

(a) A sunny day (b) A cloudy day (c) A hot day (d) A windy day

56) Which of the following is not an example of a bio-mass energy source?

(a) Wood (b) Gobar-gas (c) Nuclear energy (d) Coal

57) Most of the sources of energy we use represent stored solar energy. Which of the following is not ultimately derived from the Sun's energy?

(a) Geothermal energy (b) Wind energy (c) Natural energy (d) Bio-mass

58) Which of the following groups contain only biodegradable items?

(a) Grass, flowers and leather (b) Grass, wood and plastic

(c) Fruit-peels, cake and lime-juice (d) Cake, wood and grass

59) Which of the following constitute a food-chain?

(a) Grass, wheat and mango (b) Grass, goat and human

(c) Goat, cow and elephant (d) Grass, fish and goat

60) Which of the following are environment -friendly practices?

(a) Carrying cloth-bags to put purchases in while shopping

(b) Switching off unnecessary lights and fans

(c) Walking to school instead of getting your mother to drop you on her scooter

(d) All of the above

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