QB365 Question Bank Software

10th Science Important Questions with Answer Keys For - 2024

10th Standard

Science

Total Marks: 50

CHOOSE THE CORRECT ANSWER: $50 \times 1 = 50$ 1) Impulse is equals to (a) rate of change of momentum (b) rate of force and time (c) change of momentum (d) rate of change of mass 2) Newton's III law is applicable (a) for a body is at rest (b) for a body in motion (c) both a & b (d) only for bodies with equal masses 3) A small bulb is placed at the principal focus of a convex lens. When the bulb is switched on, the lens will produce (a) a convergent beam of light (b) a divergent beam of light (c) a parallel beam of light (d) a coloured beam of light 4) A convex lens forms a real, diminished point sized image at focus. Then the position of the object is at **(b) infinity (c)** at 2f **(d)** between f and 2f 5) If V_B, V_G, V_R be the velocity of blue, green and red light respectively in a glass prism, then which of the following statement gives the correct relation? (a) $V_B = V_G = V_R$ (b) $V_B > V_G > V_R$ (c) $V_B < V_G < V_R$ (d) $V_B < V_G > V_R$ 6) If a substance is heated or cooled, the change in mass of that substance is (a) positive (b) negative (c) zero (d) none of the above 7) Kilowatt hour is the unit of (a) resistivity (b) conductivity (c) electrical energy (d) electrical power 8) The frequency, which is audible to the human ear is (a) 50 kHz (b) 20 kHz (c) 15000 kHz (d) 10000 kHz In the nuclear reaction ${}_{6}X^{12} \xrightarrow{\alpha \ decay} {}_{z}Y^{A}$, the value of A & Z. **(b)** 8, 4 (c) 4, 8 (d) cannot be determined with the given data 10) Which of the following is a triatomic molecule? (a) Glucose (b) Helium (c) Carbon dioxide (d) Hydrogen 11) During transpiration there is loss of (a) Carbon dioxide (b) Oxygen (c) Water (d) None of the above 12) Which of the following process requires energy? (a) Active transport (b) Diffusion (c) Osmosis (d) All of them 13) Where you will create category of blocks? (a) Block palette (b) Block menu (c) Script area (d) sprite

14) Parallel forces acting in the same direction, the resultant force is

(a) $F_{net} = F_1 - F_2$ (b) $F_{net} = F_1 + F_2$ (c) $F_{net} = F_2 - F_1$ (d) $F_{net} = F_2 + F_1$

15) SI unit of G is

(a) Nm^2kg^{-2} (b) Nm^2kg^2 (c) $Nm^{-2}Kg^2$ (d) $Nm^{-2}kg^{-2}$
16) Convex lenses are used in
(a) camera (b) magnifying lens (c) microscope (d) all the above
17) The amount of light entering the human eye is
(a) Ciliary muscles (b) Pupil (c) Cornea (d) Iris
18) Convex lens focus a real, point sized image at focus, the object is placed
(a) At focus (b) Between F and 2F (c) At infinity (d) At 2F
19) SI unit of heat is
(a) calorie (b) joule (c) kilo calorie (d) kelvin
20) The expansion of can be seen when a thermometer is placed in warm water.
(a) Solids (b) Liquids (c) Gases (d) plasma
21) Which of the statements given below is true?
(a) The real expansion is always more than that of apparent expansion
(b) The real expansion and apparent expansion are equal
(c) The real expansion is always lesser than that of apparent expansion (d) None of the above
22) A heating element used in the electric iron box and the electric heater is
(a) Tungsten (b) Nichrome (c) Lead (d) All the above
23) In which one of the following heating effect the current is undesirable? (a) also twic increase (b) also twic masters (c) for a spring (d) also twic leads.
(a) electric iron (b) electric motor (c) fuse wire (d) electric bulb 24) Farthquake produces
24) Earthquake produces (a) Littergound (b) Infragound (c) audible gound (d) none
(a) Ultrasound (b) Infrasound (c) audible sound (d) none 25) are sound waves with a frequency greater than 20 kHz.
(a) Audible waves (b) infrasonic waves (c) infrasonic waves (d) a and c
26) The velocity with which the wave travels through the medium is called
(a) Wave velocity (b) particle velocity (c) either a or b (d) none
27) According to Doppler effect, when the source and the listener are moving towards each other, the apparent
frequency is
(a) more than the actual frequency (b) less than the actual frequency (c) equal to the actual frequency
(d) more or less than the actual frequency
28) If the exposure is about 100 R, it may causes
(a) skin disorder (b) hair loss (c) leukemia (d) death
29) Minimum size of a system in which at least 1 neutron is available for further fission is called
(a) cut - off size (b) critical size (c) range of reactor (d) capability criteria
30) Isotope of element is used to age of old oil painting.
(a) Carbon (b) Californium (c) Americium (d) Phosphorous
31) The vapour density of the Helium gas is
(a) Equal to 1 (b) Less than 1 (c) Greater than 1 (d) 0
32) Volume of 2 mole of hydrogen gas is
(a) 22.4 litre (b) 44.8 litre (c) 2 litre (d) 11.2 litre
33) Solubility of CaO with the increases in temperature.
(a) increases (b) decreases (c) remains constant (d) None of these

34) Physical changes are called as
(a) Reversible reaction (b) Irreversible reaction (c) Periodic (d) Non-periodic
35) Ethyl alcohol is mainly manufactured by
 (a) destructive distillation of wood (b) fermentation of molasses (c) dehydrogenation (d) Oxidation of ethane in the presence of K₂Cr₂O₇/H⁺
36) In vascular bundles, Xylem and phloem are present in different radii alternating with each other.
(a) Collateral (b) Bicollateral (c) Concentric (d) Radial
37) The shape of the wound in the skin of the host caused by leech is
(a) V (b) X (c) U (d) Y
38) Blood group Was recognized by Decastello and Steini in 1902.
(a) A (b) B (c) AB (d) O
39) It is slightly alkaline, non-living intercellular substance which constitutes about 55% of the blood.
(a) Formed elements (b) Plasma (c) Lymph (d) Blood cells
40) The term Auxin was introduced by
(a) Went (b) Kogi (c) Charles Darwin (d) Kurosawa
41) Mark the one, which is NOT a physiological effect of auxin?
(a) Cell elongation (b) Stem elongation (c) Cell differentiation (d) Rooting
42) Regeneration is seen in
(a) Plasmodium (b) Spirogyra (c) Hydra (d) Amoeba
43) The uterus prepares itself to receive the fertilized egg every
(a) Year (b) Day (c) Week (d) Month
44) According to Lamarck, the acquired characters are transmitted to the offspring by the process of
(a) mutation (b) inheritance (c) gradual change (d) degeneration
45) For his contributions to the world food supply, Dr. Norman E. Borlaug was awarded the Nobel Peace Prize in the year
(a) 1960 (b) 1970 (c) 1972 (d) 1975
46) World AIDS Day is observed on
(a) 1 st December (b) 15 th December (c) 24 th November (d) 1 st May
47) The statutory warning found in all cigarette advertisements and packs is
(a) Quit smoking today to get happiness tomorrow(b) Smoking is injurious to Health.(c) We need to burn calories daily, not tobacco.(d) Tobacco is killing us, don't let it kill you.
48)is not obtained from petroleum.
(a) Biogas (b) Diesel (c) Gasoline (d) LPG
49) Medical wastes are disposed by method.
(a) Segregation (b) Sanitary landfill (c) Incineration (d) Composting
50) The device which helps in explaining the concepts easily through pictures is known as ' Communication Device'.
(a) Art (b) Tele (c) Mobile (d) Visual