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# Physics viva questions with answers class 11 pdf

We have collected viva voice questions with solution which are very probable questions asked on Lab exam. They are categorized experiment wise, open the link given below to read question-answer of respective experiment. Experiment-wise Viva Voice Questions With Answer: Vernier Calliper Screw Gauge Spherometer Surface Tension Young's Modulus Addition of Vectors Value of  $g$  at Pole Laws of Pendulum A.C. Supply Resonance Tube Focal Length of Convex Lens By Two Pin Method Focal Length of Concave Lens By Concave Mirror Refractive Index of Liquid Refractive Index of the Material of Prism Refractive Index of Material of Glass Slab Setup of Compound Microscope Open the link to read all Question-answer. Viva Voice Questions Unit: Viva Voice Questions Subject: Physics Grade XI Q.1: What type of waves are produced in the air column?Ans. Longitudinal or compressional stationary waves. Q.2: An open end is a node or antinode?Ans. An antinode. Q.3: Is there a node or antinode at the close end of water level?Ans. A node. Q.4: Where resonance is produced?Ans. In the air column. Q.5: Can you call it an organ pipe?Ans. Yes, a closed organ pipe. Q.6: What is an organ pipe?Ans. The organ pipes are wind pipes in which the air column resonates. Q.7: What is sound?Ans. Physically the compressional waves produced in a material medium. Psychologically the sensation or hearing produced in the brain. Q.8: What is the relation between the velocity of sound and the temperature?Ans.  $V \propto \sqrt{T}$  | For 1°C rise of temperature the velocity of sound increases by 0.6 m/s. QA.9: What is meant by end-correction? Ans. The distance between the open of the tube and the antinode at the position of tuning fork. Q.10: How can you find the end correction (E)?Ans. By using the relation  $E = 0.3 d$  | Where d is the internal diameter of the tube. Q.11: What is the fundamental frequency ( $\nu$ )?Ans. The minimum frequency that can produce resonance. Q.12: What are harmonies or overtones?Ans. The multiples of fundamental frequency ( $\nu_1$ ) that can produce resonance. In a closed organ pipe or resonance tube the overtones are  $3\nu_1, 5\nu_1, 7\nu_1, 9\nu_1, \dots$  or odd integral multiple of fundamental frequency. Q.13: Define time period.Ans. It is the time required to complete one vibration or oscillation. It is reciprocal of frequency and measured in seconds. Q.14: What is resonance?Ans. Resonance is a phenomenon in which there is a marked increase in the amplitude of a vibrating, body by the influence of a second vibrating body having the same time period as the first. Q.15: What is an echo?Ans. Echo is the effect produced when sound wave is reflected on striking a solid obstacle like wall or rock. You may also like to read: Page 2 Q.1: What is a screw?Ans. Screw is a simple machine related to inclined plane. Q.2: What is meant by "gauge"?Ans. The gauge means device or instrument. Q.3: Name two main parts of a screw-gauge?Ans. (a) A nut (b) A bolt or screw Q.4: What is meant by pitch of a screw?Ans. Pitch is the distance between two nearest (consecutive or successive) threads along the axis of screw. Q.5: How is the pitch found?Ans. By dividing the distance covered by the screw in a known number of rotations by the total number of relations. Q.6: What is the least count (L.C.) of the screw gauge?Ans. L.C. of screw gauge = 0.001 cm. Q.7: How the L.C. of a screw gauge is found?Ans. By using the relation: L.C. = (Pitch of the screw / No. of circular scale divisions) Q.8: What is meant by zero error of a screw-gauge?Ans. The error which arises when the zero of circular scale does not coincide with the zero of the main scale upon joining the two studs. Q.9: When the zero-error is positive?Ans. If the zero of the circular scale lies above the reference line, provided that the fixed and movable studs are in contact. Q.10: What is the degree of accuracy of the screw gauge?Ans. Degree of accuracy = L.C. or Reading power = 0.001 cm Q.11: What is mechanical advantage of a screw gauge?Ans. Like a screw jack mechanical advantage of a screw gauge is  $2\pi r/h$ ; where 'r' is the radius of cylinder of the screw and 'h' is the pitch. Q.12: What is meant by range of the screw gauge?Ans. The maximum length of the main scale. Q.13: What is formula for area of cross section of wire?Ans. Area of circle =  $2\pi r$  Q.14: What is back lash error?Ans. Within a nut there is a little space for the play of screw. Due to continuous use this space increases. Thus when the screw is turned in one direction the stud moves as usual. However, when the screw is rotated in the opposite direction, the stud does not move for a while. This error is called Back lash error. In short "Back lash error is the error introduced on reversing the direction of rotation". Q.15: How back lash error is avoided?Ans. By turning the screw in one direction only. Q.16: What are "precision instrument"?Ans. The instrument that can measure up to a fraction of a mm, e.g., vernier caliper, screw gauge and spherometer. Q.17: What is Pi ( $\pi$ )?Ans. Ratio between the circumference of a circle to its diameter.  $\pi = (\text{Length of Circumference} / \text{diameter})$  Q.18: Does the diameter of the screw depend on temperature?Ans. Yes it does. Diameter increases with the increase of temperature and decreases with the decrease of temperature. Page 3 Viva Voice Questions Unit: Viva Voice Questions Subject: Physics Grade XI Q.1: Why the instrument is given the name "spherometer"?Ans. Because it is used to determine the radius of curvature of a spherical surface. Q.2: What is the pitch of a spherometer?Ans. The distance covered by the circular disc in one complete rotation along the main scale. Mostly pitch of spherometer = 1 mm = 0.1 cm. Q.3: How do you find the least count of spherometer?Ans. L.C. of spherometer = (Pitch of screw / No. of divisions an circular scale) = (0.1 cm / 100) = 0.001 cm. Q.4: What is meant by 'radius of curvature' of a surface?Ans. The radius of that sphere from which the surface is cut. Q.5: What is the radius of curvature of phone surface?Ans. Infinite. Q.6: What is the formula for the radius of curvature?Ans.  $R = (a^2/6h) + (h/2)$  Where, a = mean distance between the legs of the spherometer, and h = height or depth of a surface Q.7: Is there any zero error in a spherometer?Ans. Spherometer may have a zero error. Z.E. in spherometer = reading on the plane glass sheet Q.8: When the zero error (Z.E.) is positive and when negative?Ans. Positive: If the edge of the circular disc is at zero of main scale and the zero of the circular scale is ahead of the edge of main scale, the Z.E. is negative. Q.9: Can you measure the radius of curvature of wrist-watch glass by using a spherometer?Ans. No, because the wrist-watch glass is small and all the legs of the spherometer cannot rest on it. Q.10: What will be the effect of:(a) changing the pitch or(b) changing the number of circular divisions upon accuracy or least count.Ans. (a) If we decrease the pitch the L.C. will decrease and hence the accuracy increases.(b) If we increase the No. of circular divisions, the accuracy increases since the L.C. decreases. Q.11: What are the other uses of spherometer?Ans. (a) In finding a small increase in length during finding the coefficient of linear expansion.(b) In finding the small change in length due to the change in the weight suspended during the determination of young's modulus. Q.12: Why main scale is marked on both sides of zero?Ans. To measure both height and depth. Q.13: Is paper insertion method for testing the touching position of the screw is correct?Ans. No, because the thickness of ordinary paper (0.01 cm) is greater than the L.C. Q.14: Define focal length?Ans. The distance between the pole and the principal focus of spherical mirror is called the focal length. The focal length of spherical mirror is half of its radius of curvature. You may also like to read: Page 4 Viva Voice Questions Unit: Viva Voice Questions Subject: Physics Grade XI Q.1: Define surface tension?Ans. "The tangential cohesive force acting along the unit length of the surface of a liquid" $T = F / L$  Where F = total force along a line L = length of the line in this experiment:  $F = mg$  = weight of the pan + weight in the pan.  $L = 2$  (length of the slide) + 2 (breadth of the slide). Sometime we neglect the breadth since it is very small. Q.2: What are units of surface tension in C.G.S. and S.I. (M.K.S.) system?Ans. Dynes / cm (C.G.S.) Newton / meter (M.K.S.) Q.3: What are cohesion and adhesion force?Ans. Cohesion force is the attractive force between like molecules, whereas, the adhesion is the attractive force between unlike molecules, e.g. attraction between glass slide and the liquid. Q.4: What are the factors affecting the surface tension?Ans. (a) Nature of liquid (b) Nature of the surface in contact (c) Temperature Q.5: What is the effect of temperature on the surface tension?Ans. Surface tension decreases with the rise of temperature. Q.6: Define critical temperature.Ans. The temperature at which the surface tension is zero. Q.7: Why the free surface of water is concave but that of mercury is convex?Ans. The free surface of water is concave because: Cohesion force between water molecules >> adhesion force between water and gas molecules Because the free surface of mercury is convex because Cohesion force >> adhesion force Q.8: What is the shape of free surface at critical temperature? Ans. The surface tension will decrease. Q.10: Define angle of contact.Ans. Angle of contact, for a pair of solid and liquid, is defined as "the angle between tangent to the liquid surface drawn at the point of contact and the solid surface inside the liquid." Q.11: Give some practical applications of surface tension.Ans. (a) A drop of falling liquid is always in spherical shape.(b) We use oily substances to set out hairs.(c) We use soaps and detergent for cleaning clothes.(d) A thin layer of water over the umbrella protects us against light rain.(e) Capillary action e.g. rising of oil in the wick of a lamp.(f) Flying insects can walk on water surface without getting their feet wet. You may also like to read:

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