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## Chapter 1 : CBSE Class 12 Physics Theory Question Paper Set 3 N

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However, there is an internal choice in one question of 2 marks weight-age, one question of 3 marks weight-age and all three questions of 5 marks weight age. Please note that the paper given here is only a sample. You can use log table if necessary. Use of calculator is not permitted. Sample Question Paper 1. A vibrating simple pendulum of period  $T$  is placed in a lift which is accelerating upward. What will be the effect on the time period? Sound waves from a point source are propagating in all directions. What will be the ratio of amplitudes at distances of 8 m to 25 m from the source? MSE Chandigarh 7. Is greater than or less than? Weight of a body should be greater in day or night. Obtain an expression for time period of pistons. Give a method for the measurement of large distance. In which of these cases, a body can be considered as point object: A railway carriage moves over a straight track with acceleration  $a$ . A passenger in the carriage drops a stone. What is the acceleration of the stone  $w$ . Two masses 8 kg and 12 kg are connected at the two ends of a light inextensible string that goes over a frictionless pulley. Find the acceleration of the masses and the tension in the string when the masses are released. Which of them has uniform acceleration? A particle of mass  $0$ . The coefficient of friction between the object and the road is  $0$ . The particle moves to a point B, at a distance of 2 m from A. What is the speed of the particle at B? What is the effect of internal and external forces on the velocity of centre of mass. Or Derive expression for torque in cartesian co-ordinates from rotation of a particle in a plane. A rocket is fired from the earth towards the sun. Neglect the effect of other planets etc. Explain displacement in  $S$ . Find the relation between them. Glycerine flows steadily through a horizontal tube of length 1. If the amount of glycerine collected per second at one end is 4. What is the pressure difference between the two ends of the tube? Derive an expression for molar heat capacity. A monkey is sitting on a tree. Rahim seeing the Monkey brought some fruits and gave them to the Monkey, and ran into the house immediately. On hearing the sound produced when Rahim was running the monkey was scared and climbed the nearby tree. In which of the following cases will be rope will break. Or  $i$  inside a liquid drop. Or a Calculate average  $K$ . Give various relations for it. Sample Question Paper Solutions.

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## Chapter 2 : Download CBSE 12th Physics Board Exam Solved Question Paper

*CBSE Class 11 Physics Sample Papers with Solutions - Pdf Physics is the branch of science which deals with matter and its relation to energy.*

Questions 1 to 8 carry one mark each, questions 9 to 18 carry two marks each, questions 19 to 27 carry three marks each and questions 28 to 30 carry five marks each. However, an internal choice has been provided in one question of two marks, in one question of three marks and all three questions of five marks each. You have to attempt only one of the given choice in such questions.

1. Name the fundamental force which is responsible for the stability of the nucleus.

2. A pebble of mass  $m$ . Given the direction and magnitude of the net force on the pebble, a) During its upward motion b) During its downward motion

3. A body is initially at rest. It undergoes one-dimensional motion with constant acceleration. What is the moment of inertia of a rod of mass  $M$ , length  $l$  about an axis perpendicular to it through one end? Give the location of the centre of mass of a ring. Does the centre of mass of a body necessarily lie inside the body? Draw the position-time graph of an object moving with negative velocity. While considering the motion of an object under the gravitational influence of another object, which of the following quantities are conserved. Find the percentage error in  $R$ . Check the dimensional consistency of the equation. Fig shows the  $x-t$  plot of one dimensional motion of a particle. If not suggest a suitable physical context for this graph. Find  $V$  vs  $t$  and  $a$  vs  $t$  of the particle. What is impulse of a force, how it is related to momentum. OR A body constrained to move along the  $Z$ -axis of a co-ordinate system is subject to a constant force  $F$  given by  $\vec{F} = F\hat{z}$ . What is the work done by this force in moving the body through a distance of  $4m$  along the  $Z$ -axis? Prove work-energy theorem for a constant force. Define centre of gravity of a rigid body. What are the factors on which the moment of inertia of a body depends? Does the escape speed of a body from the earth depend on a) mass of the body b) the height of the location of the body from where the body is launched? Explain the variation of acceleration due to gravity with a) altitude b) depth

3. State i) theorem of parallel axes ii) theorem of perpendicular axes

3. A pump on the ground floor of a building can pump water to fill a tank of volume  $30m^3$  in 15 minutes. Explain why a) a horse cannot pull a cart and run in empty space b) a cricketer moves his hands backwards while holding catch. What is the average resistive force exerted by the block on the bullet? What will be the ratio of i) maximum heights attained by them and ii) of horizontal ranges.

OR What is a projectile? Show that the path of the projectile is parabolic. Explain any two uses of dimensional equations. Write any two of its limitations. A woman starts from her home at 9:00. Choose suitable scales and plot the  $x-t$  graph of her motion. Find the magnitude and direction of centripetal acceleration in case of uniform circular motion of an object. Find the resultant velocity of the boat. Obtain an expression for the potential energy of a spring and discuss the nature of its variation. Show that the total energy of the spring is constant in all positions. OR Answer the following questions with reasons: They start from rest. The radii of the bodies are identical. Which of the bodies reaches the ground with maximum velocity? The radius of the cylinder is  $R$ . What is the kinetic energy associated with rotation of the cylinder? What is the magnitude of angular momentum of the cylinder about its axis?

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Board Exams Distribution of subjects for February March and April CBSE has issued a circular providing details regarding the board exams to be held for class 10 and class 12 in The circular gives details of the subjects for which the exams will be held in February , March and April How to score good marks in exams? The examination season is approaching soon with pre boards for class 10 and class 12 being planned in the month of January in many schools in India followed by board exams starting during last week of February with main papers exams to be held starting March. The students feel tensed with mounting pressure from parents and teachers leading to lack of preparation and loosing confidence. The sample papers have been issued along with the marking schemes. Have you lost your CBSE mark sheet? In case you have passed your CBSE examination post and you have misplaced your mark sheets then this is a good news for you! This facility is available for students who have passed the Board examinations in or later. CBSE will be charging fees for Easier Question Papers for class 10 and class 12 this year CBSE has recently released the sample question papers for class 10 and class 12 board exams for The sample papers were released last week with marking schemes which the students can download in pdf format and practise them to understand the type of questions which are going to come in the board exams. CBSE has also released the marking schemes for all the papers to help students to Tips to improve your learning StudiesToday Our education system is developing day by day and the standards of problem and questions as well with them. That is why you need good and effective Tips to improve your learning. In order to survive and top the competitions, students have to go through a lot. Many books, many concepts, many problems and questions that are not easy to be solved. In order to achieve a good result and top their Many students tend to concentrate more on books which have been published by private publishers and less on the books which have been published by NCERT National Council of Educational Research and Training. There are doubts amongst students and parents on whether they should do the studies as per the NCERT books or as per other books available in the market. This article will address these

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### Chapter 4 : CLASS 11 “ HALF YEARLY EXAMINATION SAMPLE PAPER -1 “ Ask Physics

*CBSE Sample Papers for Class 12 Physics Solved Set 1 Section A. calendrierdelascience.com plot of the variation of potential difference across a combination of three identical cells in series versus current is as.*

Why does sun appear red at sunrise and sunset? As, wavelength of red colour is maximum in comparison of other colours of visible spectrum and amount of scattering is inversely proportional wavelength of light, therefore red colour is scattered least and enter our eyes. Name the essential components of a communication system. Essential components of a communication system are: Information source, transmitter, communication channel, receiver, Question3: In what way is the behavior of a diamagnetic material different from that of a paramagnetic, when kept in an external magnetic field? When diamagnetic substances are placed in external magnetic field, are feebly magnetized opposite to the direction of magnetic field. When paramagnetic substances are placed in external magnetic field, are feebly magnetized in the direction of magnetic field. The plot of the variation of Potential difference across a combination of three identical cells in series, versus current is shown below. What is the emf and internal resistance of each cell? It is given that cells are connected in series, therefore the combined resistance of the cells is given by: Find the work done in the process. Complete the path of ray through the prism. From which face will the ray emerge? Why is it kept low? What is the role of a bandpass filter? Modulation Index indicates the depth of modulation. In order to avoid distortion modulation index is always kept low less than 1. A band pass filter rejects low and high frequencies and allows a band of frequencies to pass through. Clearly both the positions will give same reading. Ammeter has very little resistance due to which it is connected in series to the circuit so that all the current flows through it and it can measures the value of current accurately. How would the ionization energy change when electron in hydrogen atom is replaced by a particle of mass times that of the electron but having the same charge? Ionization energy is the minimum amount of energy required to remove an electron from the outermost orbit of a neutral atom in its ground state. But here, electron in hydrogen atom is replaced by a particle having mass times of electron. Therefore, ionization energy will be increase times. Please download the PDF from the link given below.

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