Uniform circular motion worksheet 1

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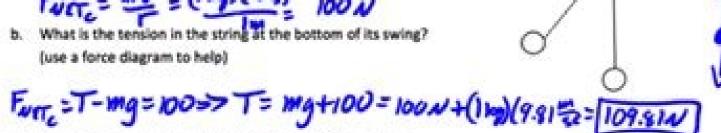
1. A child is on a swing. What direction is the centripetal force on the child when they are at the bottom of the swing? What direction is the child's velocity? What direction is the child's acceleration? Draw vectors.



2. A bucket full of water is swung in a vertical circle by a rope. Where in its motion is the tension in the rope a maximum? Where in its motion is the tension in the rope a minimum?

- 3. A pendulum bob with a mass of 1 kg is connected to a string and allowed to swing so that its speed at the bottom of is swinging motion is 10 m/s.
 - a. What is the centripetal force on the pendulum bob?

(use a force diagram to help)



4. What is the period of a pendulum that has a length of 0.5 meters?

5. The period of the pendulum in a grandfather clock is 2 second (1 second over ("tick") and 1 second back ("tock")). How long is the pendulum in a grandfather clock?

6. On planet X a pendulum with a length of 0.5 m has a period of 1.0 second. What is the acceleration due to gravity (g) on

7. A plane comes out of a power dive, turning upward in a curve of radius 1500 m. The plane's speed is 300 m/s. a. What is the Centripetal force on the pilot if he has a mass of 80 kg?

b. What force must the seat of the plane apply to his body for this motion to happen? (use a force diagram)





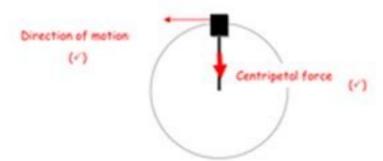
Circular Motion

1. An object which is rotating in a uniform circular path takes three seconds to make one complete rotation each time. Describe and explain the speed and velocity of the object which is moving in a regular circular motion around a fixed point.

The speed of the object will be constant (*) because the same distance is being travelled in the same amount of time. (*)

The velocity will be constantly changing (+) as the direction which the object is moving is constantly changing. (<)

2. A teacher decides to whirl a rubber bung on the end of a piece of string anticlockwise around his head to demonstrate centripetal force to their class. a) Draw and label on arrow on the diagram to represent the direction of motion in this experiment.



b) Draw and label an arrow on the diagram to represent centripetal force in this

c) Explain, as fully as possible, the factors which can affect the centripetal force acting on the bung.

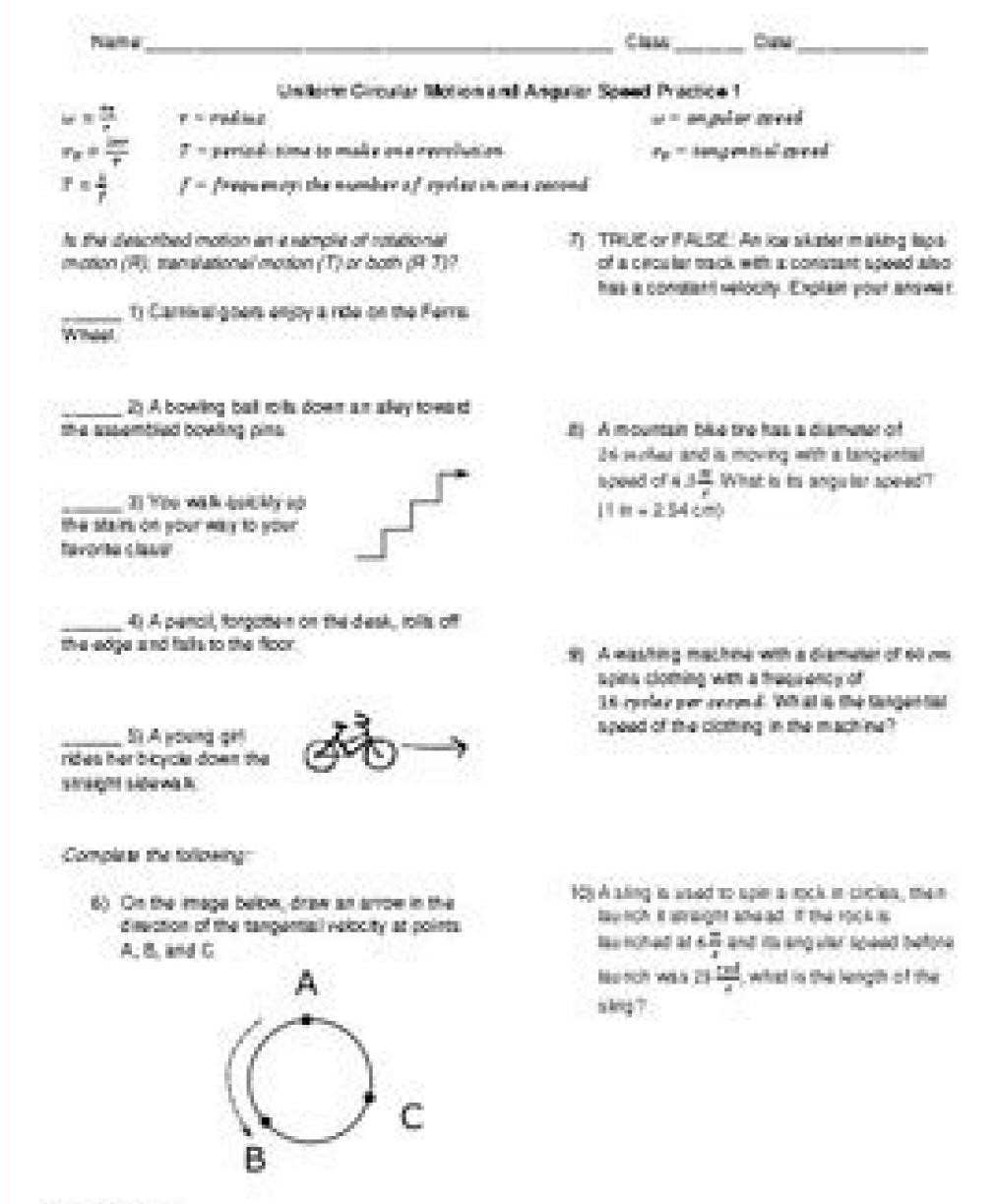
The greater the mass of the bung (4) the larger the centripetal force (4) will be. In addition, the shorter the length of string (<) that the bung is attached to the larger the centripetal force (1) will be. When the speed of the bung's rotation is increased (<) then the centripetal force will be larger. (<)

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Indian Army Technical Graduate Course Syllabus.Indian Army Technical Graduate Course (TGC-136)Starting date of application11th May 2022Closing date of application09th June 2022Job CategoryArmy syllabusJob
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 Army JCO Syllabus Details 2022DescriptionDetailsJob DesignationJunior Commissioned Officer (JCO)No. of Vacancies 152Category NameSyllabusExam DateUpdated SoonJob LocationAcross IndiaOfficial Websitejoinindianarmy.nic.inIndian Army Exam Pattern for Pandi Vacancies 2022The Selection process for Indian Army JCO Recruitment 2022 is
 having three rounds. Where the Candidates are shortlisted for Screen tests and allowed to attend written Exams are allowed for personal Interviews. However, have a look at the Indian Army Exam Pattern for ICO Recruitment 2022 below. Also, check the Indian Army Syllabus details in the following
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Websitewww.joinindianindianarmy.nic.inExam Pattern for Soldier General DutyS. No.Name of the SubjectsQuestionsMarks1General Knowledge15302General Science20403Maths1530Total50100Indian Army Soldier Technical Exam Pattern 2022S. No.Name of the SubjectsQuestionsMarks1General Knowledge15302General Science20403Maths1530Total50100Indian Army Soldier Technical Exam Pattern 2022S. No.Name of the SubjectsQuestionsMarks1General Knowledge15302General Science20403Maths1530Total50100Indian Army Soldier Technical Exam Pattern 2022S. No.Name of the SubjectsQuestionsMarks1General Science20403Maths1530Total50100Indian Army Soldier Technical Exam Pattern 2022S. No.Name of the SubjectsQuestionsMarks1General Science20403Maths1530Total50100Indian Army Soldier Technical Exam Pattern 2022S. No.Name of the SubjectsQuestionsMarks1General Science20403Maths1530Total50100Indian Army Soldier Technical Exam Pattern 2022S. No.Name of the SubjectsQuestionsMarks1General Science20403Maths1530Total50100Indian Army Soldier Technical Exam Pattern 2022S. No.Name of the SubjectsQuestionsMarks1General Science20403Maths1530Total50100Indian Army Soldier Technical Exam Pattern 2022S. No.Name of the SubjectsQuestionsMarks1General Science20403Maths1530Total50100Indian Army Soldier Technical Exam Pattern 2022S. No.Name of the SubjectsQuestionsMarks1General Exam Pattern 2022S. No.Name of the SubjectsQuestionsM
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MarksMinimum MarksPaper IGeneral Awareness10040Paper-IIKnowledge specific to the particular religious denomination will consist of Objective Type QuestionsIndian Army Junior Commissioned Officer Written Exam Syllabus 2022 PdfGeneral AwarenessCurrent AffairsAuthorsInternational and national
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Science0520Maths1040Computer Science0520IIEnglish2510032Total50200The aggregate pass marks will be 80 MarksDownload Indian Army Clerk Written Exam Syllabus 2022 PdfGeneral KnowledgeAbbreviations - National and InternationalSports - National and InternationalAwards & Prizes - National awards, Gallantry awards, Nobel
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volume of a cube, cuboids cone, cylinder, sphereTrigonometric ratios of an angle A of a right-angle triangle, Simple applications of Trigonometric ratios for solving problems of height and distance using trigonometrically
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 propertiesCircles - Properties, arc, chords, tangents, secants, and angles subtended by arcs. Statistics Histograms with given intervals Classification of data, problems related to statistical techniques. Parallelogram Circles Arcs, chords, tangent
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matterAtomic theory, molecules, and atomsStructure of atom electronsProtons and neutronsThe composition of the nucleus - atomic number, Valence electrons, and valencyPreparation and properties of Hydrogen, Oxygen, Nitrogen, and Carbon-di-oxideOxidation and Reduction, Acid, bases, and saltsElectrochemical cellConstruction
of a simple voltaic cell; working of an electrochemical cellLead storage battery and dry cellClassification of elements along a period and in the groups Carbon and its compounds Introduction Allotropies of carbon and
their occurrenceStructure, related property and usesHydrocarbon and its elementary structure, related property and usesPetroleum products, an introductory account of synthetic fibers, plastics, rubber, soaps, and detergentsExtraction of metalsMetals and non-metalsOccurrence,
general metallurgical operations for extraction of pure metalProperties of metals and covalent compoundsChemical bondFormation of ionic and covalent bondFormation bondFormation of ionic and covalent bondFormation b
and amount of metal deposited during electrolysis Electroplating Syllabus of Indian Army - Chemistry Natural Resources Water Water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin of life in water as a natural resource Origin 
waterDependence of man on natural resources - minerals from earth metals and non-metals. use of non-metals are on living organisms, the role of trees, the release of carbon dioxide
from fossil fuels and automobilesCorrosion of metals, damage of historical monuments from acidic gasesToxic effects of metallic particles, asbestos etc. on living organism's carbon monoxide and its ill effectsSmog, air pollution noise pollution and its effects on human beingsThese are the syllabus topics of chemistry as per the Indian Army Syllabus
2022 Pdf.PhysicsMotion, Force, and EnergyMatterPhysical measurementsScalar and vector quantitiesSimple machinesStructure of matterMotionMotion and displacement, uniform and non-uniform motionSpeed and velocityAcceleration, equations of motion-derivation and simple numericalForceMeaning of force, the inertia of a body, Newton's laws
of motion, momentum, Relationship between forcesAcceleration and mass of an object-simple numerical based on theseGravitationNewton's law of gravitationNewton's law of gravitation free-fall, and acceleration due to gravitySimple pendulum and restoring forceThe relationship between length and time periodWork and EnergyEnergy, mechanical energy - potential and
kinetic - their formulaeConcept of work, work was done by a constant force, the relationship between work and energy, simple numerical on work and energyLightReflection, the law of refraction, the law of refraction, refraction, the law of refraction, t
energyMechanical work and heatHeat and temperature Measurement of temperature, the idea of Celsius and Fahrenheit scales and their conversion, specific heat, simple numerical based on it. The idea of conversion of heat into work and vice versa, the meaning of a mechanical equivalent of heat - its determination by Joule's experiment The external
and internal combustion engine Electricity A source of energy, conductors, and resistance - Ohm's law, simple numerical based on the heating, the effect of the current, quantitative relationship between heats, electric current, the resistance of common electrical appliances based on the heating
effectMeasurement of electrical energy - its unit, electrical power, simple numericalMagnetismType of magnet, properties of magnet, 
of a wave, propagation of a wave through a mediumTypes of wavesLongitudinal and transversePeriodic motion(graphical treatment)Definitions of displacement, amplitude, frequencyTime period, wavelength and unitsRelationship between wavelengthsFrequency and velocity of aWave, simple numerical, the energy
transferred during propagation of wavesDomestic electric circuit Elementary ideas about wiring, fuse, possible hazards and safety measuresSun as a Source of energyAbsorption of solar energy by the earthPhotosynthesisSolar heaters, solar cells; wind energy - windmills; electricity from sea wavesFuelsBiomass as a fuel-biogas, fossil fuels-coal, types
of coal; petroleumFractional distillation of fuels and its determinationIgnition of fuels.
work and vice-versaMeaning of mechanical equivalent of heat - its determination by joule's experiment (simple numerical based on work and energy conversion) External combustion engine (basic idea) Working on internal combustion engine (basic idea) Working on in
nuclear fusion, nuclear fissionChain reactionEnergy released duringFissionExamples of uncontrolled fission and fusionThe simple idea of a nuclear reactor and atomic power plantRadiation hazardsEnergy crisis -causes and possible solutions for overcoming itIndian Army Nursing Assistant SyllabusPreparing for the Indian Army Exam using the Indian
Exam Pattern 2022 Pdf helps you to score high marks on the CEE test. Let's read the Indian Army Exam Pattern 2022 in the following section. Indian Army Written Exam Pattern 2022 for Nursing Assistant Subject Total MarksPass Marks General Knowledge 200 80 MathsBiologyChemistryBiologyTaxonomyCell and Molecular
BiologyReproductionGenetics and evolutionHuman health and diseasesBiochemistryPlant physiologyBiotechnology and its applicationsBiodiversity, ecology, and environmentDirect Links for downloading the
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Syllabus of the Indian ArmyReasoningSyllogismSeating Arrangement - Circular table and Line (North and South)PuzzleBlood RelationsStatement and ArgumentPassage and conclusionCoding and decodingOrder and rankingMaking judgmentsInequality or Decision MakingData SufficiencyLogical ReasoningInput-OutputNumber seriesNumerical
AbilityPie - ChartsBar GraphsData AnalysisLine GraphsCase letsClocksVolumeSurface areaHeight and distancesPermutation and combinationSimple and workTime and DistanceRateProfit and LossMixture & AllegationStocks and sharesPartnershipEquations and
ProbabilityGeneral EnglishSources & PronounActionSources & conjunctiveTenseInterrogative sentenceSpelling mistake detectionSpotting the errorMood & voicePropositionSourcesDegree (positive comparative & superlative)Phrases & IdiomsSourcesAntonymsIndian Army Syllabus
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