CHUKWUEMEKA ODUMEWU OJUKWU UNIVERSITY, ULI AR IMENT OF INDUSTRIAL PHYSICS: GENERAL PHYSICS 1 - PHY101 HUST SEMESTER EXAMINATIONS 2018/2019 ACADEMIC SESSION NAME______BEGNO ANSWER ALL QUESTION. TIME ALLOWED I HOUR DEPT: 1. Consider a ball of mass 0.20 kg travelling with velocity of 28 ms⁻¹ directly towards a wall, the ball hits the wall and bounces off in the opposite direction with a velocity of 20 mg⁻¹. Find the impulse of the force B. 19.2 Ns. C. 29 6 Ns. D. 49.9 Ns. 2. A collision is defined as elastic if ; The total kinetic energy after collision is equal to that before collision The coefficient of restitution is equal to zero. 11 The total kinetic energy after collision is less than the kinetic energy before collision. The total kinetic energy after collision is greater than the kinetic energy before collision. the angular momentum 1, of the particle with respect to a fixed point is defined as; 1 = r x P. $\mathbf{H}, L = \mathbf{r} \mathbf{x} \mathbf{\omega} \mathbf{r}.$ $C, L = r \pi m$ D.L = r x wFour the work done by a crane when it exacts a force of 3000N on a load and lifts it 20 m. A 000001 B. 6000/. C. 600 / D. 60 J. The energy possessed by an object as a result of its rotational motion can best be described as; A. Rotational kinetic energy. B. Translational kinetic energy. C. Translational potential energy. D. Positional potential energy. 6. Find the kinetic energy of a train of mass 300000 kg travelling at 50 m/s. A. 375000 kJ. B. 285000 kf. C. 175000 kJ 7. A orane lifts a load of 20,000 N through a distance of 10m in 45 Calculate the output power of the crane. D. 85000 kl B. 500 kW. D. 1750 kW. C. 1500 kW. 8. The contripctal force required to maintain a car moving round a circular tract is supplied by: A. Friction at the wheels. B. Gravity. C. Magnetic force, D. Tension. 9. A tangential force of 0.0005 N applied on a solid surface of area 20 cm² caused a deformation through angle of 0.007", calculate the shear modulus? A. 35.7 N/m2 H. 0.357 N/m² C. 3.57 N/m¹ D. 3571.4 N/m¹ 10. Which of the following is true about a cohesive liquid A. Adheres to other substances B. Has a concave menitcus C. Has a convex meniscus D. None of these 11. In an adiabatic process A. Heat is generated B. Heat is absorbed C. Heat is transmitted D. Heat is constant 12. Calculate the viscous force on a liquid of surface area 2000 cm2 flowing with velocity gradient of 0.4 s-3? (Take the coefficient of viscosity = 7 Ns/m²) A. 5600 N B. 0.56 N C. 56 N D. 560 N 13. The molar heat capacities of a gas at constant pressure and at constant volume are 137 J/kgK and 98 J/kgK respectively, calculate the adiabatic bulk modulus of the gas at 2.5 atmospheric pressure. B. 354130.875 N/m⁴ C. 3.495 N/m⁴ D. 1.788 N/m⁴ A. 181194.431 N/m⁴ 14. The surface tension on a soap bubble is 20 N/m and the diameter is 30 cm, calculate the excess pressure inside the bubble? A. 533.3 N/m² B. 266.67 N/m² C. 5.3 N/m² D. 2.7 N/m² 15. The yield point can be defined as A. The stress/load beyond which the material becomes clastic B. The stress/load from which the material becomes elastic The stress/load from which the material becomes inelastic C. The stress/load beyond which the material becomes inelastic. D. 16. A diver inside a river displaces 75 cm3 of water of density 1000 kg/m3, calculate the uptbrust on him. (Take g=10 C.750000N D. 75000N A. 0.075N H. 0.75N 111/52) 17. In the measurement of blood pressure, the maximum value is called D. Stroke volume C. Diastolic B. Heart rate A. Systolic 18. Which of the following is not a fundamental quantity? D. Electric current B Time C. Density A. Leugth 19. The accuracy of a micrometer screw gauge is D. 1.0 x 10⁴ m C. 1.0 x 10" m B. 1.0 x 10° m A.1.0 x 10-2 in 20. Which of the following is not true about the weight of a body? A. It varies according to position B. It is a derived quantity C. Its unit is N. D. It is a scalar quantity 21. Compute the acceleration of a forry which starts from rest and accelerates uniformly until it attains a velocity of 22. Calculate the magnitude of the gravitational force between two objects of mass 90 kg and 120 kg separated by a B. 4.0 m/s² D. 2.3 x 10" N distance of 15 m. (Take G 7 6.67 x 1011 Nm2/kg2). C. 3.2 x 10⁻⁷ N B. 3.2 x 10" N A. 4.2 × 10⁺ \$ BIADI MICHAEL HEMERINA SMITHKING> DOWDLOOD

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. PHysic 101 (1)2018/2019 Session Duggested Substives by Eage. Plasme N07 NO1 M= 0.20kg, V2 28m5 1 y = - Doms f= 20000, d=10m, t= 4.5 Power= wome = fred = 20000×10 bit ft = Mby => SOKNT A · > 0120 (-20) -28) 1BI -> 0.20(-48) >> 2.60 AL NO 3 1509 f= 0.005 N, A= 200m => 0.002m2 0=0.0070 part share modulai (G) = Ad A L: rxp = mrv A L= angular momentum of Aurticle : => 0.005× 0.002× 0.007 r = radius of Particle me mays of particle -> 35.714 NS/m2/Jame NO 4 NO10 f- 3000N, h= 20m [A] (C) (vor. done = fxd = 3000 × 20 NO 11 = 60,000 mg (22) D MOG NO12 SrA = 2000 cm2 >> 0.2m2 V.9 = 0.45-1 NOG B 5 = 7 ms/m2 m = 300000, V= 50mls, but F= - 2A dr => 7 X012 X 014 K-E = Y2mv2 => Y2×300000×50 = OIST Notans >> 7500 Ks / and N50-13 NO Connect option. Cp=137-5/KgK, Cv=985/KgK P= 215 atm, but Y= 9cv=14 גאווח הוושר BR SESA PRESIDENT 2020/2021 Download more at Learnclax.com

Physic 1d1 2018/2019, Session Suggested Solutions By Eig. Thismi NO13 Continues CL NOUS also 1 atm = 101325 mm TAL · : Distatm = n N020 · x = 253312.5Mm2 TEL here K= PY = 253312,5× 1.4 NO 21 N=Omls, V= amis, t= 5 sec [C] = 35463715 NSmª/ $a = \frac{v - u}{1} = \frac{2 - 0}{5} = 0.4 \text{ ms}^2$ wo correct optim NO14 Surface Tension = 20 Mm A ND22 M,=90kg, Ma= 120kg, r=15m diameter = 30cm => 0.3m $P = \frac{47}{8} = \frac{4\times20}{0.15} = 533.3 \text{ G} = 6.67 \times 10^{-1} \text{ Mm}^2/\text{Hg}^2$ radius = 0.15m 0.15 Mm2/ F= GMM2 = 6.67 X10" × 90× 120 (15) NOIS f= 3.2×15 2 More BL ICI N023 (25) NOTG 9=10mb2, h=80m, 1=? Vohime= 75cm3, f=1000kg/m3 V2= 42-28h :: 4= 1.296 reptoniet = mg 4= J2×10×80 => 40m/2/ C but f= m : m= fr.v = 1000×75 NSD-24 = 75000 1CT along = 10m/si NO25 :: upthmut = 75000×10 151 = 750000 m N026 = ASOKNI [C]

PH1 \$10 101 2018 2019 Stasion Suggested Solidions by Zup. Plasma NO 35 NORT AI NOD8-MD 29 N030 T=4sec, A=socm => Dism Vmax = IWZm but T= 25 - W= 25/7 = 25 = hance Vman = I DAX OISM B = 0.785m15/ 28 MO31 N032 M033 D NO34 (121-3+5K)-(-5i+113+9K) -> 122-5+5K+51-113-9K--> 17i-12i -4K/las TD