

Model Question Paper 1- 21BS12 I-SEM with effect from 2021
(CBCS Scheme)

USN

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First Semester B.Sc. Degree Examination

Subject Title: Mechanics and Properties of Matter (Physics)

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.
 02. Draw neat sketches where ever necessary.
 03. **Constants :** Speed of Light " c " = 3×10^8 ms $^{-1}$, Boltzmann Constant " k " = 1.38×10^{-23} JK $^{-1}$,
 Planck's Constant " \hbar " = 6.625×10^{-34} Js, Acceleration due to gravity " g " = 9.8 ms $^{-2}$,
 Permittivity of free space " ϵ_0 " = 8.854×10^{-12} F m $^{-1}$.

Module - 1			Marks
Q.01	A	State and explain law of conservation of angular momentum. Derive the expression for work done by a torque.	08
	B	Derive Kepler's second law of planetary motion.	08
	C	Calculate the angular velocity of the wheel of a vehicle moving at a speed of 180 km/h. The diameter of the wheel is 0.11m.	04
OR			
Q.02	A	What is elastic and inelastic collisions. Discuss elastic collision between two particles which do not stick together in laboratory frame of reference.	08
	B	Discuss the conservation of linear momentum in case of variable mass. Mention the expression for single stage rocket.	08
	C	A grinder is in the form of a circular disc of mass 10 kg and diameter 0.4 m. Calculate the constant torque that has to be applied so that the disc acquires an angular velocity of 4 revolution/second in 5 seconds. Also calculate the rate at which work is done by torque at the end of 5 seconds.	04
Module-2			
Q. 03	A	Obtain an expression for kinetic energy of a rotating body.	08
	B	Derive an expression for moment of inertia of rectangular lamina.	08
	C	A fly wheel is a uniform disc of mass 72 kg and radius 0.5 m. Calculate Moment of Inertia and its kinetic energy when it is rotating at 70 r.p.m	04
OR			
Q.04	A	State and prove the theorem of perpendicular axes as applied to moment of inertia.	10
	B	Define moment of inertia and explain its physical significance.	06
	C	Calculate the MI of a rectangular plate of mass 1 kg about an axis through its center of gravity and perpendicular to its plane. Its length is 0.2 m and breadth 0.1m. Find its radius of gyration about the same axis	04
Module-3			
Q. 05	A	Define simple harmonic motion. Obtain an expression for total energy of a particle executing simple harmonic motion.	10
	B	Define Resonance. Explain Helmholtz resonator.	06
	C	A 20 gm oscillator with natural frequency 10 rad/s is vibrating in damping medium. The damping force is proportional to the velocity of the vibration. If the damping coefficient is 0.17, how does the oscillation decay.	04
OR			

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Scheme

K Morrison

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Basics The relay should be attached to the body of the vehicle near the front headlight and TIPM using a one-way plastic fastener. This fastener isn't designed to come ... 2012 Dodge Durango fuse box diagram 2012 Dodge Durango fuse box

diagram ; Fuse MINI. 20A, M25. Fuel Pump Motor Output / Diesel Lift Pump [Export Only] ; Fuse MINI. 10A, M26. Driver

Door Switch Bank. 2012 Dodge Durango Fuse Box Info | Location | Diagrams 2012 dodge durango hemi 5.7 fuel pump relay

Jan 18, 2022 — The part number is new and I have installed the part. Is it okay to switch back from the fuel pump external relay to the TIPM internal relay ... Where is the fuel pump relay located on my 2011 Nov 24, 2013 — The TIPM or totally

integrated power distribution module located under the hood provides power directly to the fuel pump. Amedee. How To

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