

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

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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 " = $3 \times 10^8 \text{ ms}^{-1}$, Boltzmann Constant " k " = $1.38 \times 10^{-23} \text{ JK}^{-1}$,
 Planck's Constant " h " = $6.625 \times 10^{-34} \text{ Js}$, Acceleration due to gravity " g " = 9.8 ms^{-2} ,
 Permittivity of free space " ϵ_0 " = $8.854 \times 10^{-12} \text{ F m}^{-1}$.

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				

Vtu Mca Question Papers

**Koley, Santanu, Barman,
Subhabrata, Joardar, Subhankar**

Vtu Mca Question Papers:

Novel Research and Development Approaches in Heterogeneous Systems and Algorithms Koley, Santanu, Barman, Subhabrata, Joardar, Subhankar, 2023-03-07 Almost every element of life from commerce and agriculture to communication and entertainment has been profoundly altered by computing. Around the world, people rely on computers for the creation of systems for energy transportation and military use. Additionally, computing fosters scientific advancements that advance our basic understanding of the world and assist in finding answers to pressing health and environmental issues. **Novel Research and Development Approaches in Heterogeneous Systems and Algorithms** addresses novel research and developmental approaches in heterogeneous systems and algorithms for information-centric networks of the future. Covering topics such as image identification and segmentation, materials data extraction, and wireless sensor networks, this premier reference source is a valuable resource for engineers, consultants, practitioners, computer scientists, students, and educators of higher education, librarians, researchers, and academicians. [IGNOU MCA Previous Years Unsolved Papers All in One](#)

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Problem Solving Skills The unsolved papers encourage students to think critically and apply their theoretical knowledge to practical problems This process of self discovery helps in strengthening core concepts and improving analytical skills

Practice Time Management One of the biggest challenges in any exam is managing time effectively By solving previous years papers under timed conditions students can practice completing the papers within the given time frame helping them avoid last minute rushes during the actual exams

Self Evaluate After attempting the unsolved papers students can cross check their answers with textbooks or online resources This process of self evaluation is invaluable in identifying areas of weakness and focusing on them before the exams

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Identify Important Topics Previous question papers are an excellent indicator of frequently asked topics By solving these papers students can focus on key areas that have a higher probability of appearing in the exams

Enhance Problem Solving Skills The unsolved papers encourage students to think critically and apply their theoretical knowledge to practical problems This process of self discovery helps in strengthening core concepts and improving analytical skills

Practice Time Management One of the biggest challenges in any exam is managing time effectively By solving previous years papers under timed conditions students can practice completing the papers within the given time frame helping them avoid

last minute rushes during the actual exams Self Evaluate After attempting the unsolved papers students can cross check their answers with textbooks or online resources This process of self evaluation is invaluable in identifying areas of weakness and focusing on them before the exams **IGNOU MCA Previous Years Unsolved Papers Part 2** Manish Soni,2024-11-10

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