

S. No.	Note: Attempt any five questions, Selecting two from section II and two from Section III. Q.No. I in section I is compulsory.	Mark
Section-I		
Q.No.1	Attempt any four parts of the following (a) Can the sum of the magnitude of two vectors ever be equal to the magnitude of the sum of these two vectors? Explain. (b) Is it possible for the angular momentum of an object to be zero if the angular velocity is non-zero? Is it possible for the angular velocity of an object to be zero if the angular momentum is non-zero? Explain. (c) Calculate the mass of the electron having energy of $0.511 \text{ MeV}/c^2$. (d) Can a body have kinetic energy without having momentum? Can a body have momentum without having kinetic energy. Explain your answers. (e) Is the force of friction conservative? Explain it.	2×4
Section II		
Q. 2(a)	State and prove Stoke's theorem..	4
(b)	Define Gravitational Potential energy and Gravitational Potential, and the Expression for Gravitational Potential energy using integration technique.	4
Q.3(a)	Define Conservative and non-conservative forces. Show that spring force is a conservative force.	4
(b)	What is an Isolated system. Show that in an Isolated system of particles, the total relativistic energy remains constant.	4
Q.4 (a)	What are elastic and inelastic Collisions? Show that in the absence of an external force total momentum of the system remains constant.	4
(b)	State and prove Bernoulli's equation.	4
Section III		
Q. 5(a)	Find ∇r^n , if $\vec{r} = x\hat{i} + y\hat{j} + z\hat{k}$.	4
(b)	How much work must be done to increase the speed of an electron from (i) $0.18c$ to $0.19c$ and (ii) $0.98c$ to $0.99c$? Note that the speed increase (0.01) is the same in each case.	4
Q.6 (a)	The coefficient of static friction between the tires of a car and a dry road is 0.62 . The mass of the car is 1500 kg . What maximum braking force is obtainable (a) on a level road and (b) on an 8.6° downgrade.	4
(b)	An object of 2.0 kg mass makes an elastic collision with another object at rest and continues to move in the original direction but with one forth of its original speed. What is mass of the struck object?	4
Q.7(a)	A swimmer moves through the water at speed of 0.22 m/sec . The drag force opposing this motion is 110 N . How much power is developed by the swimmer.	4
(b)	An office window is 3.43 m by 2.08 m . As a result of the passage of a storm, the outside air pressure drops to 0.962 atm , but inside the pressure is held at 1.00 atm . What net force pushes out on the window.	4
Q.8(a)	A projectile is fired vertically from the Earth's surface with an initially speed of 9.42 km/s . Neglecting atmospheric friction, how far above the Earth's surface will it go?	4
(b)	A stream of bullets whose mass m is each 3.8 g is fired horizontally with a speed of 1.00 m/s into a large wooden block of mass $M (=12 \text{ kg})$ that is initially at rest on a horizontal table. If the block is free to slide without friction across the table, what speed	4

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Table of Contents F582 Past Papers 2009

1. Understanding the eBook F582 Past Papers 2009
 - The Rise of Digital Reading F582 Past Papers 2009
 - Advantages of eBooks Over Traditional Books
2. Identifying F582 Past Papers 2009
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an F582 Past Papers 2009
 - User-Friendly Interface
4. Exploring eBook Recommendations from F582 Past Papers 2009
 - Personalized Recommendations
 - F582 Past Papers 2009 User Reviews and Ratings
 - F582 Past Papers 2009 and Bestseller Lists
5. Accessing F582 Past Papers 2009 Free and Paid eBooks
 - F582 Past Papers 2009 Public Domain eBooks

- F582 Past Papers 2009 eBook Subscription Services
- F582 Past Papers 2009 Budget-Friendly Options
- 6. Navigating F582 Past Papers 2009 eBook Formats
 - ePub, PDF, MOBI, and More
 - F582 Past Papers 2009 Compatibility with Devices
 - F582 Past Papers 2009 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of F582 Past Papers 2009
 - Highlighting and Note-Taking F582 Past Papers 2009
 - Interactive Elements F582 Past Papers 2009
- 8. Staying Engaged with F582 Past Papers 2009
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers F582 Past Papers 2009
- 9. Balancing eBooks and Physical Books F582 Past Papers 2009
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection F582 Past Papers 2009
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine F582 Past Papers 2009
 - Setting Reading Goals F582 Past Papers 2009
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of F582 Past Papers 2009
 - Fact-Checking eBook Content of F582 Past Papers 2009
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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