

University of Sargodha

M.A/M.Sc. Part-I/Composite Exam 2nd A- 2019 & 1st A-2020

Mathematics: IV

Mechanics

Maximum Marks: 100

Time Allowed: 3 Hours

Note: Objective part is compulsory. Attempt any four questions from subjective part.

Objective Part (Compulsory)

Q.1. Write short answers of the following in 2-3 lines each. (2*10)

- Define a vector point function.
- Prove that $\nabla(\ln r) = \frac{\vec{r}}{r^3}$.
- Explain the term normal derivative.
- Define tangential line integral.
- Define curvilinear coordinates.
- Explain geometrically the coordinates curves in polar coordinates.
- Explain the term contraction of tensors.
- Give few lines about Newtonian and non-Newtonian mechanics.
- Define escape velocity.
- Define angular momentum.

Subjective Part (4*20)

- Q.2. (a) Prove that $\nabla(\vec{A} \cdot \vec{B}) = (\vec{B} \cdot \nabla) \vec{A} + (\vec{A} \cdot \nabla) \vec{B} + \vec{B} \times (\nabla \times \vec{A}) + \vec{A} \times (\nabla \times \vec{B})$
(b) Evaluate $\iint_S \vec{A} \cdot \hat{n} dS$, where $\vec{A} = y \hat{i} + 2x \hat{j} - z \hat{k}$ and S is surface of the plane $2x + y = 6$ in the first octant cut off by the plane $z = 6$.
- Q.3. (a) State and prove Gauss's divergence theorem.
(b) Find volume of the region common to the intersecting cylinders $x^2 + y^2 = 4$ and $x^2 + z^2 = 4$.
- Q.4. (a) Derive relations for gradient and divergence in orthogonal curvilinear coordinates.
(b) Derive relations for unit vectors of spherical coordinates in terms of unit vectors of cartesian coordinates.
- Q.5. (a) Prove that if A_i are the components of a first order tensor i.e. vector $\vec{A}$ then $\frac{\partial A_i}{\partial x_j}$ is a second order tensor. Hence prove that $\nabla \cdot \vec{A}$ is a scalar quantity.
(b) Find eigenvalues and eigenvectors of the second order tensor $\begin{bmatrix} 13 & -3 & 5 \\ 0 & 4 & 0 \\ -15 & 9 & -7 \end{bmatrix}$.
- Q.6. (a) State and prove Euler's theorem on rigid body kinematics. Also state the Chasle's theorem.
(b) Prove that for any time-dependent vector function $\vec{A}$, $\left(\frac{d\vec{A}}{dt} \right)_r = \left(\frac{d\vec{A}}{dt} \right)_f + \omega \times \vec{A}_r$, where $\vec{A}_f$ and $\vec{A}_r$ show the vector in fixed and rotating coordinates axes.
- Q.7. (a) Prove that the two systems S and S are equimomental if and only if (i) they have the same mass, (ii) they have the same centroid, (iii) they have the same principal axes and same principal moment of inertia at the center of mass.
(b) Calculate the inertia matrix of a uniform solid rectangular box at one of its corners.

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Table of Contents Unipune Math Msc Entrance Question Papers

1. Understanding the eBook Unipune Math Msc Entrance Question Papers
 - The Rise of Digital Reading Unipune Math Msc Entrance Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Unipune Math Msc Entrance Question Papers
 - 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 Unipune Math Msc Entrance Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unipune Math Msc Entrance Question Papers
 - Personalized Recommendations
 - Unipune Math Msc Entrance Question Papers User Reviews and Ratings

- Unipune Math Msc Entrance Question Papers and Bestseller Lists
- 5. Accessing Unipune Math Msc Entrance Question Papers Free and Paid eBooks
 - Unipune Math Msc Entrance Question Papers Public Domain eBooks
 - Unipune Math Msc Entrance Question Papers eBook Subscription Services
 - Unipune Math Msc Entrance Question Papers Budget-Friendly Options
- 6. Navigating Unipune Math Msc Entrance Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Unipune Math Msc Entrance Question Papers Compatibility with Devices
 - Unipune Math Msc Entrance Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unipune Math Msc Entrance Question Papers
 - Highlighting and Note-Taking Unipune Math Msc Entrance Question Papers
 - Interactive Elements Unipune Math Msc Entrance Question Papers
- 8. Staying Engaged with Unipune Math Msc Entrance Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unipune Math Msc Entrance Question Papers
- 9. Balancing eBooks and Physical Books Unipune Math Msc Entrance Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unipune Math Msc Entrance Question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Unipune Math Msc Entrance Question Papers
 - Setting Reading Goals Unipune Math Msc Entrance Question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Unipune Math Msc Entrance Question Papers
 - Fact-Checking eBook Content of Unipune Math Msc Entrance Question Papers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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