

## NATIONAL UNIVERSITY OF SCIENCE & TECHNOLOGY (NUST) Engineering Sample Admission Test 01

### MATHEMATICS:

**Directions:** For each question below you are given four choices. SELECT ANYONE THAT IS MOST APPROPRIATE ANSWER.

**ALL ANSWER MUST BE GIVEN ON THE ANSWER SHEET.**

**YOUR ANSWERS MUST BE INDICATED BY LETTERS (A, B, C, D) AND NOT BY THE WORDS THEMSELVES.**

1. Which of the following lists of physical quantities consists only of vectors?  
(a) Time, temperature, velocity  
(b) Force, volume, momentum  
(c) Velocity, acceleration, mass  
(d) Force, acceleration, velocity
2. If  $(i \times k)$  points along negative z-axis, then the vectors  $\vec{a}$  and  $\vec{b}$  must lie in  
(a)  $zx$ -plane  
(b)  $xy$ -plane  
(c)  $xy$ -plane  
(d) None of the above
3.  $\vec{k} \times \vec{i} = \dots$   
(a)  $\vec{j}$   
(b)  $-\vec{j}$   
(c)  $\vec{k}$   
(d)  $-\vec{k}$
4. What must be changing when a body is accelerating uniformly along a straight path?  
(a) The force acting on the body  
(b) The velocity of the body  
(c) The mass of the body  
(d) The speed of the body
5. The horizontal range of a projectile is maximum when it is thrown at what angle with a certain velocity?  
(a)  $30^\circ$   
(b)  $45^\circ$   
(c)  $60^\circ$   
(d)  $90^\circ$
6. A paratrooper jumping out of an airplane is an example of  
(a) Equilibrium  
(b) Static Equilibrium  
(c) Dynamic Equilibrium  
(d) None
7. The torque on a body will be zero if the angle between  $\vec{r}$  and  $\vec{F}$  is zero or:  
(a)  $90^\circ$   
(b)  $180^\circ$   
(c)  $270^\circ$   
(d) None
8. If we go away from the surface of the earth, a distance equal to the one third of the radius of the earth, the value of  $g$  will be multiplied by?  
(a)  $1/2$   
(b)  $9/16$   
(c)  $1/9$   
(d)  $16/9$
9. For certain values  $F$  and  $d$ , work done is zero when the angle between the force and displacement is:  
(a)  $0^\circ$   
(b)  $30^\circ$   
(c)  $90^\circ$   
(d)  $180^\circ$
10. The force acting on a body in the gravitational field at any point is equal to its:  
(a) Gravitational mass  
(b) Weight  
(c) Acceleration  
(d) Inertia
11. What is kinetic energy of a body of mass 10 kg moving with velocity  $1 \text{ m/s}^2$ ?  
(a) 10 Joules  
(b) 20 Joules  
(c) 5 Joules  
(d) 2.5 Joules
12. Simple harmonic motion is mathematically represented as

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**J Rink**

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## **Table of Contents All Sample Papers For Nust**

1. Understanding the eBook All Sample Papers For Nust
  - The Rise of Digital Reading All Sample Papers For Nust
  - Advantages of eBooks Over Traditional Books
2. Identifying All Sample Papers For Nust
  - 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 All Sample Papers For Nust
  - User-Friendly Interface
4. Exploring eBook Recommendations from All Sample Papers For Nust
  - Personalized Recommendations

- All Sample Papers For Nust User Reviews and Ratings
- All Sample Papers For Nust and Bestseller Lists

5. Accessing All Sample Papers For Nust Free and Paid eBooks

- All Sample Papers For Nust Public Domain eBooks
- All Sample Papers For Nust eBook Subscription Services
- All Sample Papers For Nust Budget-Friendly Options

6. Navigating All Sample Papers For Nust eBook Formats

- ePUB, PDF, MOBI, and More
- All Sample Papers For Nust Compatibility with Devices
- All Sample Papers For Nust Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of All Sample Papers For Nust
- Highlighting and Note-Taking All Sample Papers For Nust
- Interactive Elements All Sample Papers For Nust

8. Staying Engaged with All Sample Papers For Nust

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers All Sample Papers For Nust

9. Balancing eBooks and Physical Books All Sample Papers For Nust

- Benefits of a Digital Library
- Creating a Diverse Reading Collection All Sample Papers For Nust

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine All Sample Papers For Nust

- Setting Reading Goals All Sample Papers For Nust
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of All Sample Papers For Nust

- Fact-Checking eBook Content of All Sample Papers For Nust

- 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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web induction type wattmeter this type of wattmeter can be used on both ac and dc system in carefully designed instruments it provides high degree of accuracy this wattmeter has less power consumption criteria weight of moving system in this system is reasonably low this is in uniform scale it has relatively weaker working torque the type of

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web dec 22 2021 an instrument that measures provided or dissipated power in a circuit electrodynamic wattmeter operates with a moving coil the voltage inductor and 2 static coils connected in series voltage inductors the moving or pressure coil is linked to a pointer with a spiral spring

**how does a wattmeter work how does it measure the power** - Apr 12 2023

web induction type wattmeter the induction type wattmeter consists of two laminated electromagnets one of them is excited by the load current of the main circuit series or current magnets and its exciting coil current coil is connected in series with the circuit

unit 03 construction operation of watt meter energy meter - Mar 31 2022

web feb 15 2019 explain the construction and operation of a dynamometer type wattmeter a with neat diagram 2 explain the construction and operation of single phase induction type energy meter with a neat diagram 3 describe the calibration of wattmeter with a neat circuit diagram 4 list the any 3 errors in watt meters cognitive level application 1

*induction type wattmeter operation secure4 khronos* - Dec 28 2021

web may 16 2023 induction type wattmeter operation valliammai engineering college srm what is the purpose of copper shading bands in induction type wattmeter and operation of induction type single phase wattmeter dynamometer the load test on induction motor is performed to compute its low power factor operation is one of the