

## 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.

- 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
- If  $(\hat{i} \times \hat{j})$  points along negative z-axis, then the vectors  $\vec{a}$  and  $\vec{b}$  must lie in  
 (a) zx-plane (b) yx-plane  
 (c) xy-plane (d) None of the above
- $\vec{k} \times \hat{i} = \dots\dots\dots$   
 (a)  $\vec{j}$  (b)  $-\vec{j}$  (c)  $\vec{k}$  (d)  $-\vec{k}$
- 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
- 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)  $90^\circ$
- A paratrooper jumping out of an airplane is an example of  
 (a) Equilibrium (b) Static Equilibrium (c) Dynamic Equilibrium (d) None
- 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
- 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)  $16/9$
- 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)  $180^\circ$
- 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
- 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
- Simple harmonic motion is mathematically represented as

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**J Rink**



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