

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° (b) 45° (c) 60° (d) 90°
- 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° (b) 180° (c) 270° (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° (b) 30° (c) 90° (d) 180°
- 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 1m/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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Madeleine Fombad, Mpho Ngoepe



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Code of Federal Regulations ,2004 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries InfoWorld ,1999-01-13 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **Papers Presented at Annual Engineering Symposium** ,1962 Formal Techniques for Safety-Critical Systems Cyrille Artho,Peter Csaba Ölveczky,2016-02-02 This book constitutes the refereed proceedings of the 4th International Workshop on Formal Techniques for Safety Critical Systems FTSCS 2015 held in Paris France in November 2015 The 15 revised full papers presented together with one invited talk and two tool papers were carefully reviewed and selected from 41 submissions The papers are organized in topical sections on timed systems railway systems fault tolerance automotive systems software and systems analysis tools **FCC Record** United States. Federal Communications Commission,1998 *Technical Association Papers* Technical Association of the Pulp and Paper Industry,1930

Proceedings of the 9th ProLISSA Conference Madeleine Fombad,Mpho Ngoepe,2018-12-17 Countries in the African continent are implementing strategies to overcome developmental and societal challenges to remain competitive in the new global knowledge based economy Libraries and archives can play an important role in this process through provision of information Information in modern society is valued as an essential component in the daily lives of people both at individual and organisational levels Increasingly we expect information to meet our needs through technological interventions or interactions Indeed recent technological developments have accentuated contemporary conceptions of the library and information field as an intersection of information technology people and society This volume explores the opportunities and challenges encountered in the practice of contemporary libraries archives and records management in the digital age It cannot be overemphasized that the traditional traits and practices of libraries archives and records management are constantly changing given the increased use of Information and Communication Technologies ICTs in the different information management value chains This book will serve as a premier reference source for organisations in both private and public sectors researchers information practitioners in industry and postgraduate students in information management

PC Mag ,1991-09-24 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology A Collection of Technical Papers ,1972 **The Baptist Argus** ,1906 **Transactions of the Japan Institute of Metals** ,1960 **Federal Register** ,1978-07 Commerce Business Daily ,2000 The Weekly Underwriter Alasco Delancey Brigham, Henry Rogers Hayden,1928 **The JAG Journal** ,1956 Discussion Paper on the Transformation of the Polytechnic of Namibia Into the Namibia University of Science and Technology Namibia. Law Reform and Development Commission,2014 **The Accountant** ,1915 **Food Microstructure** ,1982 **The African Journal**

of Tropical Hydrobiology and Fisheries ,1974 Vol 1 2 includes the first symposium of the Committee for Inland Fisheries of Africa **Herald and Presbyter** ,1901

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