

4.2 Information sheets – Paper 1 (Physics)

DATA FOR PHYSICAL SCIENCES: GRADE 12
PAPER 1 (PHYSICS)

TABLE 1: PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Acceleration due to gravity	g	$9,8 \text{ m}\cdot\text{s}^{-2}$
Universal gravitational constant	G	$6,67 \times 10^{-11} \text{ N}\cdot\text{m}^2\cdot\text{kg}^{-2}$
Speed of light in a vacuum	c	$3,0 \times 10^8 \text{ m}\cdot\text{s}^{-1}$
Planck's constant	h	$6,63 \times 10^{-34} \text{ J}\cdot\text{s}$
Coulomb's constant	k	$9,0 \times 10^9 \text{ N}\cdot\text{m}^2\cdot\text{C}^{-2}$
Charge on electron	e	$-1,6 \times 10^{-19} \text{ C}$
Electron mass	m_e	$9,11 \times 10^{-31} \text{ kg}$
Mass of the Earth	M	$5,98 \times 10^{24} \text{ kg}$
Radius of the Earth	R_E	$6,38 \times 10^6 \text{ m}$

TABLE 2: FORMULAE

MOTION

$v_f = v_i + a\Delta t$	$\Delta x = v_i\Delta t + \frac{1}{2}a\Delta t^2$ OR $\Delta y = v_i\Delta t + \frac{1}{2}a\Delta t^2$
$v_f^2 = v_i^2 + 2a\Delta x$ OR $v_f^2 = v_i^2 + 2a\Delta y$	$\Delta x = \left(\frac{v_i + v_f}{2}\right)\Delta t$ OR $\Delta y = \left(\frac{v_i + v_f}{2}\right)\Delta t$

FORCE

$F_{\text{net}} = ma$	$p = mv$
$F_{\text{fr}}^{\text{max}} = \mu_k N$	$F_{\text{fr}} = \mu_k N$
$F_{\text{net}}\Delta t = \Delta p$ $\Delta p = mv_f - mv_i$	$w = mg$
$F = \frac{Gm_1m_2}{d^2}$ OR $F = \frac{Gm_1m_2}{r^2}$	$g = \frac{GM}{d^2}$ OR $g = \frac{GM}{r^2}$

WORK, ENERGY AND POWER

$W = F\Delta x \cos\theta$	$U = mgh$ OR $E_p = mgh$
$K = \frac{1}{2}mv^2$ OR $E_k = \frac{1}{2}mv^2$	$W_{\text{net}} = \Delta K$ OR $W_{\text{net}} = \Delta E_k$ $\Delta K = K_f - K_i$ OR $\Delta E_k = E_{kf} - E_{ki}$
$W_{\text{net}} = \Delta K + \Delta U$ OR $W_{\text{net}} = \Delta E_k + \Delta E_p$	$P = \frac{W}{\Delta t}$
$P_{\text{net}} = Fv_{\text{net}}$	

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AR 600-20 11/06/2014 ARMY COMMAND POLICY , Survival Ebooks Us Department Of Defense, www.survivalebooks.com, Department of Defense, Delene Kvasnicka, United States Government US Army, United States Army, Department of the Army, U. S. Army, Army, DOD, The United States Army, AR 600 20 11 06 2014 ARMY COMMAND POLICY Survival Ebooks **Pursuing quality education in Physical and Rehabilitation Medicine** Francesca Gimigliano, Maria Gabriella Ceravolo, Jorge Lains, 2023-08-15 High quality rehabilitation care represents a constitutive element of health systems worldwide The harmonization of staff education both at the undergraduate and postgraduate level is a key element for ensuring the highest standard of rehabilitation care International bodies like the UEMS Board for Physical and Rehabilitation Medicine PRM or the International Society for PRM have already delivered regulatory documents setting standards in postgraduate PRM education The implementation of such rules is to be validated worldwide with special attention to low and middle income countries This Research Topic aims to stimulate awareness in the scientific community especially for those involved in postgraduate education and policy making decisions It will highlight the need for developing competency based education as a powerful mechanism to align education and training with health system priorities This holds particular value for resource limited countries where the knowledge and skills of rehabilitation doctors need to reflect not only the population s health profile but also the strengths and weaknesses e g workforce gaps and maldistributions of the health system This goal can be achieved through sharing experiences between those who have engaged themselves in the process of program development curriculum design and competency based education in rehabilitation Over the last 25 years the number of papers addressing the issue of residency education in PRM has exponentially increased testifying the interest towards the role of rehabilitation and more specifically of the PRM doctors as leaders of the rehabilitation team **Teaching Children and Adolescents Physical Education 4th Edition** Graham, George, Elliott, Eloise, Palmer, Stephen, 2016-05-13 Expanded to address teaching across elementary middle and high school this resource focuses on what it takes to become a master physical education teacher It includes new research examples technology tips sample task sheets and assessment examples all relevant to K 12 *UGC NET Management [Code-17] Unit-Wise /Topic Wise PYQs (2012-2025) with Detailed Explanations II Management Paper -2 II Best PYQ Book for UGC NET/JRF & SET Exams II 14 year II By Diwakar Education Publication , 2025-07-30* Description Prepare smart succeed with confidence This meticulously crafted guide is your one stop solution for cracking the UGC NET JRF SET Exams in Management Code 17 Covering 14 years of Previous Year Questions 2012 2025 this book offers unit wise and topic wise segregation in line with the latest NTA syllabus enabling focused and systematic preparation for Paper 2 of the exam Whether you re a first time aspirant or aiming to improve your score this book brings unmatched value through Key Features Comprehensive Coverage of All 10 Units as per the latest UGC NET Management syllabus Solved PYQs from 2012 to 2025

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government workers health care professionals and those responsible for health policy development Applied Health Economics for Public Health Practice and Research is an important contribution to the economic discussion of public health and resource allocation

Science Blogging Christie Wilcox,Bethany Brookshire,Jason G. Goldman,2016-03-01 Here is the essential how to guide for communicating scientific research and discoveries online ideal for journalists researchers and public information officers looking to reach a wide lay audience Drawing on the cumulative experience of twenty seven of the greatest minds in scientific communication this invaluable handbook targets the specific questions and concerns of the scientific community offering help in a wide range of digital areas including blogging creating podcasts tweeting and more With step by step guidance and one stop expertise this is the book every scientist science writer and practitioner needs to approach the Wild West of the Web with knowledge and confidence

Conflict and Governance Susan Brown,2005 The Authors interrogate the manner in which South Africas changing economy is re shaping the political and the social landscape Based on in depth analysis of the data suggestions are made for future policy development

The Oxford Handbook of Ethics of AI Markus D. Dubber, Frank Pasquale, Sunit Das,2020-06-30 This volume tackles a quickly evolving field of inquiry mapping the existing discourse as part of a general attempt to place current developments in historical context at the same time breaking new ground in taking on novel subjects and pursuing fresh approaches The term A I is used to refer to a broad range of phenomena from machine learning and data mining to artificial general intelligence The recent advent of more sophisticated AI systems which function with partial or full autonomy and are capable of tasks which require learning and intelligence presents difficult ethical questions and has drawn concerns from many quarters about individual and societal welfare democratic decision making moral agency and the prevention of harm This work ranges from explorations of normative constraints on specific applications of machine learning algorithms today in everyday medical practice for instance to reflections on the potential status of AI as a form of consciousness with attendant rights and duties and more generally still on the conceptual terms and frameworks necessarily to understand tasks requiring intelligence whether human or A I

Varney's Midwifery Tekoa L. King,Mary C. Brucker,Kathryn Osborne,Cecilia M. Jevitt,2018-05-01 Varney s Midwifery Sixth Edition is the gold standard for midwifery practice Completely updated and revised this text reflects current evidence based guidelines The Sixth Edition addresses care of women throughout the lifespan including primary care gynecology maternity care in a variety of settings and newborn care It also provides new content on social determinants of health the changing face of the population and the population that midwives serve With chapters written by expert midwives with an emphasis on anatomy physiology and normal physiologic processes this text will assist students and midwives in providing healthcare services today Chapter appendices present essential skills that are designed to help students midwives and international readers learn skills that are core components of midwifery practice

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CERN Courier, 2014 *Proceedings of the 5th International Asia Conference on Industrial Engineering and Management Innovation (IEMI2014)* Ershi Qi, Qin Su, Jiang Shen, Feng Wu, Runliang Dou, 2015-01-19 The 5th International Asia Conference on Industrial Engineering and Management Innovation is sponsored by the Chinese Industrial Engineering Institution and organized by Xi'an Jiaotong University. The conference aims to share and disseminate information on the most recent and relevant researches, theories, and practices in industrial and system engineering to promote their development and application in university and enterprises.

ICONS 2020 Arif Zainudin, Yoga Prihatin, Suyono, Purwo Susongko, Taufiqullah, 2021-01-26 *Proceedings of the First International Conference on Social Science, Humanities, Education, and Society Development* ICONS 2020 30 November 2020 Tegal, Central Java, Indonesia. ICONS is an International Conference hosted by Universitas Pancasakti Tegal. This Conference is arranged to become an annual conference making room for scholars and practitioners in the area of economic, socio-cultural, legal, educational, environmental aspects, as well as a combination of all these aspects.

Journal of the Physical Society of Japan, 2014 **Military Construction, Veterans Affairs, and Related Agencies Appropriations for 2014** United States. Congress. House. Committee on Appropriations. Subcommittee on Military Construction, Veterans Affairs, and Related Agencies, 2013 *Handbook of Positive Psychology and Indian Thought Systems* Geetika Dutta, Girishwar Misra, Shalini Gupta, 2025-06-18 This handbook explores the intersection of positive psychology and Indian thought systems in education to create a generation of future citizens who are not only well-educated but also happy and well-rounded. It discusses mental hygiene, well-being, flow, resilience, gratitude, happiness, mindfulness, and happiness curriculum. With contributions from esteemed scholars and practitioners, this book offers comprehensive coverage of positive psychology, Indian thought systems, and their applications in education. It bridges the gap between theory and practice, providing readers with the knowledge and tools to create positive educational experiences that promote well-being, resilience, and happiness. The book is a valuable academic resource for practitioners and students in psychology, educational psychology, and education. It is also helpful for parents, educators, and anyone interested in promoting well-being and eternal happiness in our educational institutions and society.

International Encyclopedia of Public Health William C Cockerham, 2016-10-06 *International Encyclopedia of Public Health* Second Edition Seven Volume Set is an authoritative and

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