



education

Department of
Education
FREE STATE PROVINCE

GRADE 8

NATURAL SCIENCES

NOVEMBER 2023

TIME: 2 HOURS
Stanmorephysics.com

MARKS: 100

INSTRUCTIONS AND INFORMATION:

1. Write your name, grade, and class on the ANSWER BOOK.
2. The question paper consists of TWO SECTIONS divided into 11 questions.
3. Answer ALL questions in the ANSWER BOOK.
4. Number the answers correctly according to the numbering system used in this question paper.
5. Skip one line between two sub-questions, for example QUESTION 4.1.1 and QUESTION 4.1.2.
6. Write neatly and legibly.

This question paper consists of 14 pages.

Natural Sciences Grade 9 November 2013

Ian Pickup



Natural Sciences Grade 9 November 2013:

Nanocosmetics Arun Nanda, Sanju Nanda, Susai Rajendran, Yassine Slimani, Tuan Anh Nguyen, 2020-05-06

Nanotechnology is key to the design and manufacture of the new generation of cosmetics. Nanotechnology can enhance the performance and properties of cosmetics including colour, transparency, solubility, texture, and durability. Sunscreen products such as UV nano filters, nano TiO₂ and nano ZnO particles can offer an advantage over their traditional counterparts due to their broad UV protection and non cutaneous side effects. For perfumes, nano droplets can be found in cosmetic products including Eau de Toilette and Eau de Parfum. Nanomaterials can also be used in cosmetics as transdermal drug delivery systems. By using smart nanocontainers, active compounds such as vitamins, antioxidants, nutrients, and anti-inflammatory anti-infective agents can be delivered effectively. These smart nanocontainers are typically related with the smart releasing property for their embedded active substances. These smart releases could be obtained by using the smart coatings as their outer nano shells. These nano shells could prevent the direct contact between these active agents and the adjacent local environments. **Nanocosmetics: Fundamentals, Applications, and Toxicity** explores the formulation, design, concepts, and emerging applications of nanocosmetics. The book also focuses on the mitigation or prevention of their potential nanotoxicity, potential global regulatory challenges, and the technical challenges of mass implementation. It is an important reference source for materials scientists and pharmaceutical scientists looking to further their understanding of how nanotechnology is being used for the new generation of cosmetics. Outlines the major fabrication and formulation design concepts of nanoscale products for cosmetic applications. Explores how nanomaterials can safely be used for various applications in cosmetic products. Assesses the major challenges of using nanomaterials for cosmetic applications on a large scale. **Geriatric**

Urology, An Issue of Clinics in Geriatric Medicine Tomas L. Griebeling, 2016-01-07 This issue of Clinics in Geriatric Medicine is devoted to Geriatric Urology. Guest Editor Tomas L. Griebeling MD MPH has assembled a group of expert authors to review the following topics: Non Surgical Treatment of Urinary Incontinence in Elderly Women, Outcomes of Surgery for Stress Urinary Incontinence in Older Women, Evaluation and Management of Pelvic Organ Prolapse in Elderly Women, Underactive Bladder in Older Adults, Translational Research and Voiding Dysfunction in Older Adults, Functional Brain Imaging and Voiding Dysfunction in Older Adults, The Role of Urodynamics in Elderly Patients, Associations Between Voiding Symptoms and Sexual Health in Older Adults, Asymptomatic Bacteriuria and Urinary Tract Infections in Older Adults, Comorbidity and Surgical Risk in Older Urologic Patients, Small Renal Masses in Older Adults, Prostate Cancer in Elderly Men, Active Surveillance and Other Considerations, Late Onset Hypogonadism and Testosterone Replacement in Elderly Men, and Contemporary Chemotherapy for Urologic Malignancies in Geriatric Patients. *Anticancer Living* Lorenzo Cohen PhD, Alison Jefferies, MEd, 2019-05-07 The health care revolution continues an accessible science based approach to wellness. Andrew Weil MD What if we could make basic sustainable lifestyle changes that could prevent us from getting cancer? What if

those with cancer could improve their chances of living long vibrant lives The evidence is now clear at least 50 percent of cancer deaths can be prevented by making healthy lifestyle changes But many patients and doctors included still don't realize the simple changes we can make to increase chances of survival or aid in the healing process for those with a diagnosis Introducing the concept of the Mix of Six Lorenzo Cohen and Alison Jefferies make an informed case that by focusing on six key areas of health and wellness you can support treatment or reduce your risk for developing cancer altogether An accessible prescriptive guide to wellness based on the latest scientific findings Anticancer Living outlines a path to radically transform health delay or prevent many cancers support conventional treatments and significantly improve quality of life Anticancer Living will empower millions of people with information they can use to reduce their risk of getting cancer and improve their chances of surviving a cancer diagnosis Highly recommended Dean Ornish MD author of *The Spectrum* **Congressional Record** United States. Congress, 2014 *The Well-Woman Visit* David Chelmow, Anita Blanchard, Lee Learman, 2017-06-15 This accessible text expands on the recommendations of the American College of Obstetricians and Gynecologists Well Woman Task Force WWTF to provide a practical guide to conducting a successful well woman visit Background chapters summarize the history of the WWTF and rationale and evidence supporting periodic health visits explain the principles of early diagnosis and prevention and offer advice on the practical side of conducting a visit including considerations for special populations Chapters detail each component of the visit first explaining the scope of a problem the rationale for screening or prevention and the factors that alter a screening The WWTF recommendations are then summarized and advice is offered on how to apply them Case studies and advice on how to identify and assess new guidelines are also provided ensuring providers are well equipped to offer efficient and effective care **Mining and Scientific Press**, 1893 *Annual Reports of City Officers and City Boards of the City of Saint Paul, for the Fiscal Year Ending* Saint Paul (Minn.), 1899 *Scientific American*, 1888 Monthly magazine devoted to topics of general scientific interest *Wisconsin Magazine of History* Milo Milton Quaife, Joseph Schafer, Edward P. Alexander, Edward Porter Alexander, 2014 *Chess Life*, 2003 **The Literary Digest** Edward Jewitt Wheeler, Isaac Kaufman Funk, William Seaver Woods, Arthur Stimson Draper, Wilfred John Funk, 1903 *The Mining Journal, Railway and Commercial Gazette*, 1900 **Editor & Publisher**, 1929 The fourth estate **Current Law Index**, 1996 **Williams Gynecology, Third Edition** Barbara L. Hoffman, John O. Schorge, Karen D. Bradshaw, Lisa M. Halvorson, Joseph I. Schaffer, Marlene M. Corton, 2016-04-22 The only gynecology textbook to combine a comprehensive medical reference and a full color surgical atlas in one beautifully illustrated volume A Doody's Core Title for 2017 Williams Gynecology Third Edition is specifically designed as a practical quick reference guide for practicing gynecologists and residents but it will also appeal to clerkship medical students nurse practitioners and physician assistants Williams Gynecology provides comprehensive coverage of the full spectrum of gynecologic healthcare and disease management including benign general gynecology reproductive endocrinology infertility

and menopause female pelvic medicine and reconstructive surgery and gynecologic oncology The surgical management sections include Aspects of Gynecologic Surgery and Atlas of Gynecologic Surgery which covers Surgeries of Benign Gynecologic Conditions Minimally Invasive Surgery Surgeries for Female Pelvic Reconstruction and Surgeries for Gynecologic Malignancies Williams Gynecology Third Edition is beautifully illustrated with hundreds of original drawings for both the surgical atlas and medical reference portions Each chapter follows a practical template for a consistent approach to diagnosis and treatment With its extensive use of treatment algorithms differential diagnosis boxes and other elements this book is also a reliable quick reference The third edition has been revised to keep up with new and expanded content on the latest topics including minimally invasive procedures benign gynecology and the subspecialties of urogynecology gynecologic oncology and reproductive endocrinology The authors are internationally known practitioners affiliated with Parkland Memorial Hospital University of Texas Southwestern Medical Center at Dallas Massachusetts General Hospital Harvard Medical School and the National Institutes for Health Features Two resources in one full color medical text and surgical atlas conveniently surveys the entire spectrum of gynecologic disease including general gynecology reproductive endocrinology and infertility urogynecology and gynecologic oncology Completely illustrated atlas of gynecologic surgery contains over 450 full color figures that illuminate operative techniques Unique templated text design ensures a consistent approach to diagnosis and treatment Strong procedure orientation covers a vast array of surgical operations which are illustrated in detail Evidence based discussion of disease evaluation reinforces and supports the clinical relevance of the book s diagnostic and treatment methods Distinguished authorship team from the same Parkland Memorial Hospital ObGyn department responsible for Williams Obstetrics the leading reference in obstetrics for more than a century Heavily illustrated gynecologic anatomy chapter created with the surgeon in mind to emphasize critical anatomy for successful surgery New artist drawings of minimally invasive procedures urogynecology and gynecologic oncology Numerous illustrations photographs tables and treatment algorithms New York ,1970 Christian Standard ,1909 **Montana Code Annotated** Montana,2013 *Sustaining Human Progress* Khalid Malik,2014 Most people in most countries have been steadily better in human development Advances in technology and incomes hold ever greater for longer healthier more secure lives Naval War College Review ,2014

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