



NATIONAL SENIOR CERTIFICATE EXAMINATION
NOVEMBER 2017

LIFE SCIENCES: PAPER III

MARKING GUIDELINES

Time: 1½ hours

50 marks

These marking guidelines are prepared for use by examiners and sub-examiners, all of whom are required to attend a standardisation meeting to ensure that the guidelines are consistently interpreted and applied in the marking of candidates' scripts.

The IEB will not enter into any discussions or correspondence about any marking guidelines. It is acknowledged that there may be different views about some matters of emphasis or detail in the guidelines. It is also recognised that, without the benefit of attendance at a standardisation meeting, there may be different interpretations of the application of the marking guidelines.

Life Sciences P3 Memo

Lingsheng Yao



Life Sciences P3 Memo:

Time And Science - Volume 2: Life Sciences Remy Lestienne, Paul Harris, 2023-06-22 Life and Time are very closely linked because life needs the patience of eons to emerge and evolve and also due to the precision timing of neural networks in the perception of the world encoding information and performing actions A dozen renowned biologists and neuroscientists collaborate in this volume to explore the various facets of timing in the living world The temporal programming of the activity of the genetic code controls the essential mechanisms of individual development from zygote to adult while evolution uses the succession of generations to accomplish its work For its part the brain accomplishes the miracle of justifying presentism and reconstructing the continuity of present time from the fragmented data accessible to the senses as well as measuring durations and dating events To this end the brain uses a multilevel temporal coding to transport and decode sensory information and prepare motor responses It is only gradually that we have discovered the temporal precision of the mechanisms involved of the order of a few milliseconds or less for the adjustment of neural networks or the synaptic plasticity used for memory formation Today the perfection of natural neural networks the energy saving use of spikes of electrical impulses to categorize the sensory environment and to guess its probable future is an example to the modelers and engineers of artificial intelligence

Nuclear Science Abstracts, 1975 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1971 First multi year cumulation covers six years 1965 70 *National Library of Medicine Catalog* National Library of Medicine (U.S.), 1960 *Selected Water Resources Abstracts*, 1978 *NASA Technical Memorandum*, 1994 Bibliography of Agriculture, 1967

European Access, 2002 **Scientific and Technical Aerospace Reports**, 1992 *Time And Science (In 3 Volumes)* Remy Lestienne, Paul Harris, 2023-06-21 Prominent scientists and philosophers of science address contemporary debates on the nature of Time Their contributions freely discuss its unity and reality its compatibility with the orders of classical philosophy present past and future and with the disputed idea of free will Volume 1 They also present a detailed and updated state of the role of Time in the so called exact sciences biology or more precisely genetics evolution neurosciences natural and artificial intelligence Volume 2 and physics relativity quantum mechanics and quantum gravity and cosmology Volume 3

S&T Today, 2002 **Index of NLM Serial Titles** National Library of Medicine (U.S.), 1981 A keyword listing of serial

titles currently received by the National Library of Medicine **Pathogens for War** Donald H. Avery, 2013-04-28 Pathogens for War explores how Canada and its allies have attempted to deal with the threat of germ warfare one of the most fearful weapons of mass destruction since the Second World War In addressing this subject distinguished historian Donald Avery investigates the relationship between bioweapons poison gas and nuclear devices as well as the connection between bioattacks and natural disease pandemics Avery emphasizes the crucially important activities of Canadian biodefence scientists beginning with Nobel Laureate Frederick Banting at both the national level and through cooperative projects within the framework of an elaborate alliance system Delving into history through a rich collection of declassified documents Pathogens for War also devotes several chapters to the contemporary challenges of bioterrorism and disease pandemics from both national and international perspectives As such readers will not only learn about Canada's secret involvement with biological warfare but will also gain new insights into current debates about the peril of bioweapons one of today's greatest threats to world peace **Current Catalog** National Library of Medicine (U.S.), 1966 Includes subject section name section and 1968 1970 technical reports **Library Bulletin** Somerville Public Library (Mass.), 1897 **Area Handbook for the Philippines** American University (Washington, D.C.). Foreign Area Studies, Frederic H. Chaffee, 1969 **Science for Environmental Protection** National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Science for EPA's Future, 2012-12-21 In anticipation of future environmental science and engineering challenges and technologic advances EPA asked the National Research Council NRC to assess the overall capabilities of the agency to develop obtain and use the best available scientific and technologic information and tools to meet persistent emerging and future mission challenges and opportunities Although the committee cannot predict with certainty what new environmental problems EPA will face in the next 10 years or more it worked to identify some of the common drivers and common characteristics of problems that are likely to occur Tensions inherent to the structure of EPA's work contribute to the current and persistent challenges faced by the agency and meeting those challenges will require development of leading edge scientific methods tools and technologies and a more deliberate approach to systems thinking and interdisciplinary science Science for Environmental Protection The Road Ahead outlines a framework for building science for environmental protection in the 21st century and identified key areas where enhanced leadership and capacity can strengthen the agency's abilities to address current and emerging environmental challenges as well as take advantage of new tools and technologies to address them The foundation of EPA science is strong but the agency needs to continue to address numerous present and future challenges if it is to maintain its science leadership and meet its expanding mandates

Area Handbook for the Philippines Frederic H. Chaffee, 1969 General study of the Philippines covers historical and geographical aspects demographic aspects and social structures aspects of ethnography language family living conditions education cultural factors the system of government religion foreign policy mass media the economic structure economic

relations agriculture work questions industry the administration of justice national level safety the police and armed forces systems etc Bibliography **Interior, Environment, and Related Agencies Appropriations for 2007** United States. Congress. House. Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies,2006
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