



GR 11 Life Sciences Paper 2 scope

- 1 November 2024 -

The following framework outlines the detailed assessment of topics covered in the examination. Teachers are advised to review it with learners to ensure full understanding and effective preparation.

Biological terms: Ecosystems, ecology, environment, ecological niche, Interspecific competition, Intraspecific competition, Competitive exclusion, population density, population size, mortality, natality, chordate, cephalization, immigration, emigration, predator, prey, parasitism, resource partitioning, competition, parasitism, mutualism, commensalism, census, eukaryotic, procaryotic, alien plant species, monocultures, poaching, culling, eutrophication, , thallus, , indigenous plants, global warming, carbon footprint, food security , biodiversity , ozone, rhizoids, rhizome , pistil, invertebrates, specie, population, vaccination, antibiotics, pathogen, sexual reproduction	
Micro -organisms Structure and characteristics of: <ul style="list-style-type: none"> - Viruses - Bacterium - Fungi - Protista 	Biodiversity in plants - Identify the different plant groups <ul style="list-style-type: none"> - The presents or absence of the key features of the four groups of plants: - Vascular tissues - True leaves - Seed or spore - Fruit - Water for reproduction # Distinguish between the gametophyte generation and sporophyte generation in Bryophytes and Pteridophytes
Conditions in which bread mould grow	
Explain what a heterotrophic organism is	Structure of a flower
The role that Fungi plays in the environment	Adaptions for wind pollinations
Malaria - What cause malaria	Advantages of sexual reproduction
- Symptoms of malaria	
- How can you prevent malaria	
Biodiversity in Animals	Population Ecology
Key features of the six Phyla: <ul style="list-style-type: none"> - Symmetry - Number and names of tissues layers - Number of openings in gut - Coelom - Cephalisation - Blood systems 	<ul style="list-style-type: none"> - Factors that influence population size - Logistic and geometric growth curves and their phases - Predator-prey relation # Be able to determine which graph indicate the prey/predator and why <ul style="list-style-type: none"> - Determine the size of a population: Quadrant method and mark/capture

Life Sciences Paper 2 Exemplar 201memorandum

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Life Sciences Paper 2 Exemplar 201memorandum:

Pavlov's Physiology Factory Daniel P. Todes, 2003-04-29 Russian physiologist and Nobel Prize winner Ivan Pavlov is most famous for his development of the concept of the conditional reflex and the classic experiment in which he trained a dog to salivate at the sound of a bell In *Pavlov's Physiology Factory* Experiment Interpretation Laboratory Enterprise Daniel P Todes explores Pavlov's early work in digestive physiology through the structures and practices of his landmark laboratory the physiology department of the Imperial Institute for Experimental Medicine In *Lectures on the Work of the Main Digestive Glands* for which Pavlov won the Nobel Prize in 1904 the scientist frequently referred to the experiments of his coworkers and stated that his conclusions reflected the deed of the entire laboratory This novel claim caused the prize committee some consternation Was he alone deserving of the prize Examining the fascinating content of Pavlov's scientific notes and correspondence unpublished memoirs and laboratory publications *Pavlov's Physiology Factory* explores the importance of Pavlov's directorship of what the author calls a physiology factory and illuminates its relationship to Pavlov's Nobel Prize winning work and the research on conditional reflexes that followed it Todes looks at Pavlov's performance in his various roles as laboratory manager experimentalist entrepreneur and scientific visionary He discusses changes wrought by government and commercial interests in science and sheds light on the pathways of scientific development in Russia making clear Pavlov's personal achievements while also examining his style of laboratory management *Pavlov's Physiology Factory* thus addresses issues of importance to historians of science and scientists today big versus small science the dynamics of experiment and interpretation and the development of research cultures

Concepts and Interpreted Examples in Advanced Fuel Modeling Robert E. Burgan, 1987 *Resources in Education*, 1988 Louis D. Brandeis Melvin I. Urofsky, 2012-09-04 As a young lawyer in the late nineteenth and early twentieth centuries Louis Brandeis born into a family of reformers who came to the United States to escape European anti-Semitism established the way modern law is practiced He was an early champion of the right to privacy and pioneer the idea of pro bono work by attorneys Brandeis invented savings bank life insurance in Massachusetts and was a driving force in the development of the Clayton Antitrust Act the Federal Reserve Act and the law establishing the Federal Trade Commission Brandeis witnessed and suffered from the anti-Semitism rampant in the United States in the early twentieth century and with the outbreak of World War I became at age fifty eight the head of the American Zionist movement During the brutal six month congressional confirmation battle that ensued when Woodrow Wilson nominated him to the Supreme Court in 1916 Brandeis was described as a disturbing element in any gentlemen's club But once on the Court he became one of its most influential members developing the modern jurisprudence of free speech and the doctrine of a constitutionally protected right to privacy and suggesting what became known as the doctrine of incorporation by which the Bill of Rights came to apply to the states In this award winning biography Melvin Urofsky gives us a panoramic view of Brandeis's unprecedented impact on American society and law

Ivan Pavlov Daniel P. Todes, 2014-10-15 Winner of the Pfizer Award from the History of Science Society Contrary to legend Ivan Pavlov 1849-1936 never trained a dog to salivate to the sound of a bell So begins this definitive deeply researched biography of Ivan Pavlov Daniel P. Todes fundamentally reinterprets the Russian physiologist's famous research on conditional reflexes and weaves his life values and science into the tumultuous century of Russian history particularly that of its intelligentsia from the reign of tsar Nicholas I to Stalin's time Ivan Pavlov was born to a family of priests in provincial Riazan before the serfs were emancipated and made his home and professional success in the booming capital of St Petersburg in late imperial Russia He suffered the cataclysmic destruction of his world during the Bolshevik seizure of power and civil war of 1917-21 rebuilt his life in his seventies as a prosperous dissident during the Leninist 1920s and flourished professionally as never before in the 1930s industrialization revolution and terror of Stalin times Using a wide variety of previously unavailable archival materials Todes tells a vivid story of that life and redefines Pavlov's legacy Pavlov was not in fact a behaviorist who believed that psychology should address only external behaviors rather he sought to explain the emotional and intellectual life of animals and humans the torments of our consciousness This iconic objectivist was actually a profoundly anthropomorphic thinker whose science was suffused with his own experiences values and subjective interpretations Todes's story of this powerful personality and extraordinary man is based upon interviews with surviving coworkers and family members along with never before analyzed taped interviews from the 1960s and 1970s examination of hundreds of scientific works by Pavlov and his coworkers and close analysis of materials from some twenty-five archives The materials range from the records of his student years at Riazan Seminary to the transcripts of the Communist Party cells in his labs and from his scientific manuscripts and notebooks to his political speeches they include revealing love letters to his future wife and correspondence with hundreds of scholars artists and Communist Party leaders and memoirs by many coworkers his daughter his wife and his lover The product of more than twenty years of research this is the first scholarly biography of the physiologist to be published in any language **CIS Annual** Congressional Information Service, 1995

The Publisher, 1909 **Athenaeum and Literary Chronicle**, 1888 **American Agriculturist**, 1889
Athenaeum, 1875 *The Athenaeum*, 1879 **British Medical Journal**, 1882 **Proceedings of the Conference on Computers and the Quality of Life**, 1990 *The Engineer*, 1875 *Mining and Scientific Press and Pacific Electrical Review*, 1880 **Iron & Coal Trades Review**, 1926 Vol 115 includes Diamond jubilee issue 1867-1927 *Scientific American*, 1879 *Subject Guide to Books in Print*, 1996 **The Athenæum**, 1874 *Memoirs of the National Academy of Sciences* National Academy of Sciences (U.S.), 1926 Each volume comprises one or more monographs many of which are issued also as separates

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