Life Science

Grade 12

PAPER 1



Oute: SEPTEMBER 2024

Time: 2 % HOURS

Mark: 550

INSTRUCTIONS AND INFORMATION

Read the following instruction carefully before answering the questions.

- Answer ALL questions.
- Write ALL the answers on the provided FOLIO PAPER.
- RIOLE OFF after each question.
- 4 Start each section on a NEW page.
- Number the answers correctly according to the numbering system used in this question paper.
- Present your answers according to the instructions for each question.
- Do ALL drawings in pencil and label them in blue pen-
- Draw slagrams or flow charts only when asked to do so.
- The diagrams in this question paper are NOT all drawn to scale.
- 10 You may use a non-programmable calculator, protractor, and compans.
- 111 You may NOT use graph paper.
- 12. Write neatly and legibly.

EXAM AGREEMENT	
 (Name & Sumane); Grade	

hereby acknowledge that I will abide by all examination rules objudited below during the writing of my LIFE. SCIENCE evans.

RULES:

- I will not have any electronic equipment in my possession (cell phones, smart watches and earphones).
- 2. I will not cause any disruption during this exam in the exam venue.
- 3. I will be honest at all times.

All rules, as discussed with me, will be honoured and obeyed.

Learner Signature

SECTION A Question 1

- Various options are provided as possible answers to the following questions. Choose the correct answer and write only the letter (A to D) next to the question number (1,1.1 to 1.1.10) on the FOLIO PAPER, for example 1.1.6 E.
- 1.1.1 Hollow, pear-shaped organ.
 - Vagina.
 - Uherus.
 - Fallopian tubes
 - Placents.
- 1.1.2 Choose the letter that does not explain the process of oogenesis.
 - The diploid germinal epithelium cells of the ovaries go through the process of mitosis. to form many folicies.
 - Every 21 days, the folicle stimulating hormone (FSH) stimulates one folicle. Only one cell inside of that folicie enlarges and goes through the process of meiosis.
 - Out of the 4 haploid cells produced through melosis, only one cell will survive to form a mature ovum.
 - The other three cells from meiosis will degenerate.
- 1.1.3 Before copulation the male sperm is stored temporarily in the ...
 - seminal vesicles.
 - sorotum.
 - prostate pland
 - epididymis.
- 1.1.4 Structure that receives a stimulus and converts it into an impulse.
 - autonomic nervous system.
 - effector
 - stimulus.
 - receptor

REPORT.

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Lauren Gardner

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The Oxford Handbook of Meditation Miguel Farias, David Brazier, Mansur Lalljee, 2021-10-21 Meditation techniques including mindfulness have become popular wellbeing practices and the scientific study of their effects has recently turned 50 years old But how much do we know about them what were they developed for and by whom How similar or different are they how effective can they be in changing our minds and biology what are their social and ethical implications The Oxford Handbook of Meditation is the most comprehensive volume published on meditation written in accessible language by world leading experts on the science and history of these techniques It covers the development of meditation across the world and the varieties of its practices and experiences It includes approaches from various disciplines including psychology neuroscience history anthropology and sociology and it explores its potential for therapeutic and social change as well as unusual or negative effects Edited by practitioner researchers this book is the ultimate guide for all interested in meditation including teachers clinicians therapists researchers or anyone who would like to learn more about this topic Reznek's Imaging in Oncology Anju Sahdev, Sarah J. Vinnicombe, 2020-10-18 This comprehensive reference provides an overview of the general principles of cancer staging as well as specific discussions of each tumour type across the body including lymphoma and haematological malignancies For each tumour the pattern of disease involvement and disease spread are emphasized the state of the art imaging features surveyed and the latest tumour staging and methods to assess treatment response are addressed Separate sections discuss metastatic disease and the effects of treatment on normal and diseased tissues The final section of the book highlights emerging functional and molecular imaging techniques to evaluate the different biological hallmarks of cancer The Fruit Grower and Farmer ,1913 The United States Army and Navy <u>Journal and Gazette of the Regular and Volunteer Forces</u>, 1921 The Cultivator & Country Gentleman ,1884

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