**HIGHER BIOLOGY SCHEME OF WORK**

TERM 1 (Aug 13th – Nov 14th 2020 )

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| **Weeks** | **Course Outline** |
| Week 1 (August 13 -15) | Revision of National 5 Biology ; Cell Biology, Multicellular Organisms, adaptation and sustainability.  |
| Week 2 (Aug 17 -22) | Introduction to unit 1 : **DNA AND GENOMES**. Structure and Organisation of DNA |
| Week 3 (Aug 24 - 29) | Replication of DNA |
| Week 4(Aug 31 – Sep 5) | Replication of DNA |
| Week 5(Sep 7 – Sep 12) | Gene Expression |
| Week 6(Sep 14 – 19) | Differentiation in Multicellular  |
| Week 7(Sep 21 – 26) | Differentiation in Multicellular Organisms  |
| Week 8(Sep 28 – Oct 3) | Structure of the Genome |
| Week 9(Oct 5 - 10 ) | Mutations |
| Week 10(0ct 12 – 17)  | **MID-TERM HOLIDAY** |
| Week 11(Oct 19 – 24) |  ASSESSMENT OF HALF TERM WORKSolution to the assessment and Revision of past questions.Evolution |
| Week 12(Oct 26 – 31) | Evolution |
| Week 13(Nov 2 – 7) | Evolution |
| Week 14(Nov 9 - 14) | Genomic Sequencing  |
| Nov 14 - 15 | **END OF TERM 1** |

**HIGHER BIOLOGY**

**TERM 2 (Nov 16th 2020 – Feb 27th 2021 )**

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| Week 1(Nov 16 – 21) | **INTRODUCTION TO UNIT 2 : METABOLISM FOR SURVIVAL**Introduction to Metabolic Pathways |
| Week 2 (Nov 23 – 28) | Control of Metabolic Pathways |
| Week 3(Nov 30 – Dec 5) | Control of Metabolic pathways |
| Week 4(Dec 7 – 12) | Cellular Respiration |
| Week 5(Dec 14 -19) | Assessment of Topics taught.Revision of past papers on the topics |
| Week 6(Dec 21 – 23) | Metabolic Rate |
| Week 6 - 7(Dec 24 – Jan 5) | **WINTER BREAK**  |
| Week 8(Jan 6 – 9) | Metabolic rate |
| Week 9(Jan 11 – 16) | Metabolism in Conformers and regulators |
| Week 10(Jan 18 – 23) | Maintaining metabolism |
| Week 11(Jan 25 – 30) | Environmental control of metabolism |
| Week 12(Feb 1 – 5) | Environmental control of metabolism |
| **Feb (6 – 9)** | **MID-TERM HOLIDAY** |
| Week 13(Feb 10 -13) | ASSESSMENT OF HALF TERM WORKSolution to the assessment Revision of half term work |
| Week 14(Feb 15 -20) | Genetic control of metabolism  |
| Week 15(Feb 22 – 27) | Ethical Considerations |
|  | **END OF TERM 2** |

**HIGHER BIOLOGY**

TERM 3 (March 1st – June 26th 2021 )

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| Week 1(March 1- 6) | Revision of past questions unit 1 and 2 |
| Week 2 (March 8 - 13) | **INTRODUCTION TO UNIT 3 : SUSTAINABILITY AND INTERDEPENDENCE** |
| Week 3(March 15 - 20) | Food Supply |
| Week 4(March 22 - 27) | Plant Growth and productivity |
| Week 5(March 29 – April 1st) | Plant Growth and Productivity |
| **Week 5 - 7****(April 2– 17)** | **APRIL HOLIDAY** |
| Week 8(April 19 - 24) | Plant and Animal Breeding |
| Week 9(April 26 – May 1) | Crop Protection |
| Week 10(May 3 - 8) | **MAY DAY, RAMADHAN/EID HOLIDAY** |
| Week 11(May 10 - 15) | **RAMADHAN/EID HOLIDAY** |
| Week 12(May 17 – 22) | Animal Welfare |
| Week 13(May 24 -29) | Symbiosis  |
| May 28th – May 31st, 2021 | **MID-TERM HOLIDAY** |
| Week 14(May 31 – June 5) | Assessment and revision of past questions  |
| Week 15(June 7 – 12) | Social Behaviour |
| Week 16(June 14 – 19) | Mass Extinction and regaining biodiversityMeasuring Biodiversity |
| Week 17(June 21 – 26)  | Threats to BiodiversityRevision of Unit 1-3 Topics  |
|  | **END OF TERM 3** |