

YEAR 13 Batch 1 & 2 - BIOLOGY

WEEK 6 (4th Oct - 8th Oct)

Work sent to students through Class Bio Whats App Group /Google Classroom

Topic 7.3:- Gene Technology

L.O – Describe how genetically modified organisms (micro organisms and animals) can be produced .Discuss the risks and benefits associated with the use of GM organisms

Biology Students Book 2

<p>B2 - Sunday – 6th& 7th Period (Zoom)</p> <p>B1- Monday –2nd Period (Zoom)</p> <p>B1 -Tuesday – 4th Period (Zoom)</p>	<p>Students able to</p> <ul style="list-style-type: none">● Outline the key steps involved in producing GM insulin using E. Coli.● Compare GM insulin production using reverse transcriptase with E. Coli method.● Describe the use of microinjection, micro projectile & liposome wrapping technique in producing GM animals. <p>Resources: PowerPoint – Genetic engineering ,Board works – gene technology & Video link https://www.youtube.com/watch?v=BK12dQq4sJw https://www.youtube.com/watch?v=5Ryb7ZLJSh0</p> <p>Students to complete text book questions Pg.126 Q.1-3</p>
<p>B1- Monday – 1st Period (Zoom)</p> <p>B2 - Monday– 3rd Period (Zoom)</p>	<p>Assessment via Google forms - 20 marks</p> <p>Topic 7.2- Gene expression & Epigenetics</p> <p>Text Book pg.108-112,114&115</p> <p>Students able to</p> <ul style="list-style-type: none">● Compare gene expression in prokaryotes & eukaryotes● Identify epigenetic mechanisms● Role of epigenetic in development & differentiation in organisms. <p>Students to turn in text book questions on stem cells in GC</p>

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Topic 6-Microbiology and pathogens [6.1.2-Measuring the growth of bacterial cultures]

L.O- Understand the different methods of measuring the growth of bacterial cultures as illustrated by cell counts, dilution plating, mass and optical methods (turbidity)

Biology Students Book 2

<p>B1- Tuesday – 3rd period (Zoom)</p> <p>B2- Sunday – 0 period (Zoom)</p>	<p>Students able to</p> <ul style="list-style-type: none">●Measure the changes in the bacterial culture and the growth in the population●Analyse the cell count method using haemocytometer <p>www.science.co.uk/biology/culture-techniques..html, www.internet4classrooms.com</p> <p>Video and ppt- Basic aseptic techniques used in culturing microorganisms</p> <p>Resources and advice on cultures of bacteria can be found online, including guides to identifying colony types. Try searching for ‘observing microbes’</p> <p>Text Book Page Numbers – 47-48</p> <p>Worksheet – Microbial techniques</p>
<p>B1- Thursday – 5th and 6th period (Zoom)</p> <p>B2 - Monday – 8th & Thursday 7th period (Zoom)</p>	<p>Students able to-</p> <ul style="list-style-type: none">●Explain the different method of measuring bacterial growth of bacterial cultures by dilution plating ,mass and optical methods(turbidity)●Analyse and evaluate the advantages and disadvantages of optical methods and dilution plating. <p>www.science.co.uk/biology/culture-techniques..html, www.internet4classrooms.com</p> <p>Video and ppt- Basic aseptic techniques used in culturing microorganisms</p> <p>Resources and advice on cultures of bacteria can be found online, including guides to identifying colony types. Try searching for ‘observing microbes’</p> <p>Text Book Page Numbers – 48 -49</p> <p>Worksheet – Microbial techniques</p>