

YEAR 13 Batch 1 & 2 - BIOLOGY

WEEK 5 (27th Sept – 1st Oct.)

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

Topic 7.2:- Factors affecting Gene Expression

L.O – Explain what is meant by the terms stem cell, pluripotency and totipotency and discuss the way society uses scientific knowledge to make decisions about the use of stem cells in medical therapies

Biology Students Book 2

B1- Monday – 1st & 2nd Period (Zoom) B2 - Sunday – 6th & 7th Period (Zoom)	Students able to <ul style="list-style-type: none">● Differentiate terms pluripotent, multipotent and totipotent giving suitable examples.● Describe technique of Therapeutic cloning & its uses● Describe the use of stem cells in curing diseases – Diabetes, Parkinsons disease, organ transplants. Resources: PowerPoint – Stem cells & Video link https://www.youtube.com/watch?v=i2pyDBMglfM https://www.youtube.com/watch?v=xCqstdeWl2Y Students to complete text book questions Pg.115 Q.1&2 and Pg.119 Q.1-3
B1 -Tuesday – 4th Period (Zoom) B2 - Monday– 3rd Period (Zoom)	Students able to <ul style="list-style-type: none">● Compare embryonic stem cells & adult stem cells● Identify what are induced pluripotent stem cells & their uses● Discuss the ethics of the use of stem cells. Resources: PowerPoint – Stem cells & Video link https://www.youtube.com/watch?v=1izm50V5qzg https://www.youtube.com/watch?v=3JutPkiKvOM

	<p>Students to complete exam style questions on stem cells</p> <p>text book Pg.120& 121</p>
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Topic 6- Microbiology and pathogens [6.1.1-Microbial techniques]

L.O- Understand the principles and describe the basic aseptic techniques used in culturing microorganisms Analyse the use of different media including broth cultures, agar and selective media

Biology students text 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"> ●Identify the use of different media including broth culture, agar and selective media. ●Describe three safety precautions that should always be taken when culturing sample of microorganisms <p>www.science.co.uk/biology/culture_techniques..html, www.internet4classrooms.com</p> <p>Video and ppt-</p> <p>Basic aseptic techniques used in culturingmicroorganisms. 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 – 42 to 44 &Worksheet – Microbial techniques</p>
<p>B1- Thursday – 5th and6thperiod(Zoom)</p> <p>B2 - Monday – 8th & Thursday 7th period</p>	<p>Students able to-</p> <ul style="list-style-type: none"> ●Compare how different media may be used to produce a pure sample of microorganisms for culturing. ●Explain the different method of measuring bacterial growth

(Zoom)

of bacterial cultures by cell counts ,dilution plating ,mass and optical methods(turbidity)

www.science.co.uk/biology/culture_techniques..html,

www.internet4classrooms.com

Video and ppt-

Basic aseptic techniques used in culturing microorganisms.

Resources and advice on cultures of bacteria can be found online, including guides to identifying colony types. Try searching for 'observing microbes'

Text Book Page Numbers – 42 to 44 & Worksheet – Microbial techniques