

YEAR 13 A - BIOLOGY

WEEK 9 (17th May- 21st May)

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

Topic 7:- Modern Genetics

L.O – To revise concepts on Gene technology and evaluate its role in production of vaccines & pharmaceuticals .

Biology Students Book 1 &2

Monday – 1 st Period(Zoom)	<p>Zoom discussion of Case study : Agro infiltration - Plants as Bio Factories linked to Vaccine production</p> <p>Students to watch the following links on Agro infiltration & introduction posted on GC https://www.youtube.com/watch?v=wDt7s9euS4A https://www.youtube.com/watch?v=Ysnu8P66YiA</p> <p>Students able to</p> <ul style="list-style-type: none">● Sequence out stages involved in producing vaccine from plants .● Identify the risks and hazards involved in the process of Agroinfiltration.● Evaluate the Agroinfiltration technique to modern techniques used in vaccine production
Monday –2 nd Period(GC)	<p>Students to answer the questions that follow in the case study task posted on Google classroom - Agro infiltration and turn in as Google docs</p> <p>Students able to</p> <ul style="list-style-type: none">● Apply concepts on Cloning & use of <i>Agrobacterium tumefaciens</i> in producing plant vaccines .● Collect secondary evidence to prove effectiveness of agroinfiltration● Evaluate the role of micro cloning in pharmaceuticals .
Tuesday – 4 th Period (Asynchronous learning)	<p>Students to watch the following links on gene technology https://www.youtube.com/watch?v=9fl4dgcE5EQ https://www.youtube.com/watch?v=ToIJJC3CuLs</p> <p>Students to complete the task on Gene technology assigned in Google classroom.</p> <p>Students able to</p> <ul style="list-style-type: none">● Sequence out stages of genetic engineering● Interpret role of enzymes & marker genes used in gene technology● Evaluate the use of gene technology in production of medicines .

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Topic 6.1: Pathogens

L.O.: To revise and describe the transmission, mode of infection, pathogenic effect and treatment (including antibiotics and vaccines) of the following:

- bacterial infections● stem rust fungus on cereal crops (*Puccinia graminis* wheat)
- influenza virus● the malarial parasite (*Plasmodium spp*).

Tuesday- 5 th period	<p>Zoom Session: Discussion of answers to previous assignment on global distribution of infections</p> <p>Resources: Links & Power point</p> <p>https://www.youtube.com/watch?v=AeuP5IYP5HA&t=309s</p> <p><u>Textbook page 52-71</u></p> <p>Students able to:</p> <p>Describe the transmission of HIV, flu, malaria and TB</p> <p>Predict the roles of social, economic and biological factors in the prevention and control of TB, HIV and malaria.</p>
Thursday- 1 st and 2 nd period	<p>Async GC : Students work on the task: Developing countries face threats from deadly infections, called “poverty diseases,” such as HIV and tuberculosis. How should decisions be made as to which health needs to address, and how to incorporate vaccination into often-scarce services?</p> <p>GC: Students evaluate the questions that turned up in the previous assignment and write responses as assigned: Task</p> <p><u>Textbook page 52-71</u></p> <p>Resources: Textbook & Power point</p> <p>Students able to:</p> <p>Explain the causes for spread of “poverty diseases”</p> <p>Evaluate ethical issues associated with the development and use of antibiotics and vaccines.</p>

YEAR 13 B - BIOLOGY

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Topic 7:- Modern Genetics

L.O – To revise concepts on Gene technology and evaluate its role in production of vaccines & pharmaceuticals .

Biology Students Book 1 &2

Sunday – 6 th Period (Zoom)	<p>Zoom discussion of Case study : Agro infiltration - Plants as Bio Factories linked to Vaccine production</p> <p>Students to watch the following links on Agro infiltration & introduction posted on GC</p> <p>https://www.youtube.com/watch?v=wDt7s9euS4A</p> <p>https://www.youtube.com/watch?v=Ysnu8P66YiA</p> <p>Students able to</p> <ul style="list-style-type: none">● Sequence out stages involved in producing vaccine from plants .● Identify the risks and hazards involved in the process of Agroinfiltration.● Evaluate the Agroinfiltration technique to modern techniques used in vaccine production
Sunday – 7 th Period (Asynchronous learning)	<p>Students to answer the questions that follow in the case study task posted on Google classroom - Agro infiltration and turn in as Google docs</p> <p>Students able to</p> <ul style="list-style-type: none">● Apply concepts on Cloning & use of <i>Agrobacterium tumefaciens</i> in producing plant vaccines .● Collect secondary evidence to prove effectiveness of agroinfiltration● Evaluate the role of micro cloning in pharmaceuticals .
Monday – 3 rd Period (GC)	<p>Students to watch the following links on gene technology</p> <p>https://www.youtube.com/watch?v=9fl4dcgE5EQ</p> <p>https://www.youtube.com/watch?v=ToIJC3CuLs</p> <p>Students to complete the task on Gene technology assigned in Google classroom.</p> <p>Students able to</p> <ul style="list-style-type: none">● Sequence out stages of genetic engineering● Interpret role of enzymes & marker genes used in gene technology● Evaluate the use of gene technology in production of medicines .

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Week 9 (17th May to 21st May)

Work sent through Google classroom/G mail/Online Quiz

Topic 10.1-Ecosystems

L.O- To revise the nature of ecosystem, abiotic and biotic factors ,ecological techniques and statistical analysis

Biology worksheet file, Past papers and text book 2

Sunday -0 period	<p>Google class room/ Online Quiz –Revision and discussion of topic wise questions—10.1 Text Book Page Numbers -244 to266</p> <p>Resources: PowerPoint/Boardworks &Video link https://drive.google.com/open?id=1oM7IeP6wLElaDDN8rS-MNSc8DGcaOS8e</p> <p>Students able to Recall the components of ecosystem ,interpret effect of abiotic and biotic factors , analyse & evaluate ecological techniques and statistical analysis</p>
Monday 8 th period	<p>Asynchronous learning-Research work Significance of nanotechnology in Biomedical Sciences ,analyse and evaluate the advantages and disadvantages and task to be turned in Google classroom</p>
Thursday 7th period	<p>Zoom class –discussion and clarification of doubts based on the topics 10.1 Text Book Page Numbers -244 to 266</p> <p>Students able to Recall the components of ecosystem , interpret effect of abiotic and biotic factors , analyse & evaluate ecological techniques and statistical analysis</p>