

YEAR 12 - Batch 1 &2 BIOLOGY

WEEK 9 (25th Oct – 28th Oct.)

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

Topic 2.1– Eukaryotes

L.O – Describe the use of cytological techniques – Microscopy, autoradiography & ultracentrifugation.

Biology Students Book 1

B2- Monday – 5th period(Zoom)	Assessment via Google forms-20 marks Topics-2.1.3 to 2.1.6 Detail structure & functions of various parts & organelles in animal & plant cells
B1- Tuesday – 4th period(Zoom)	Students able to <ul style="list-style-type: none">● Calculate magnification & actual size of cells using the formula $M = O/A$ & scale bar concept .● Identify the various stages involved in preparing specimens for microscopy- fixation ,dehydration, embedding, sectioning & staining● Interpret the use of Autoradiography & Centrifugation in biochemical analysis of cell components Resources: Board works - Cell Structure , power point- cytological techniques & Video link https://www.youtube.com/watch?v=TLm37BbR1mo https://www.youtube.com/watch?v=UHnxiF6qzhI
B2 - Wednesday – 5th period (Zoom)	Students able to <ul style="list-style-type: none">● Identify the various stages involved in preparing specimens for microscopy- fixation ,dehydration, embedding, sectioning & staining● Compare stages involved in preparing specimens for microscopy- fixation ,dehydration, embedding, sectioning & staining.● Differentiate use of vital stains & heavy metal stains Resources: Power point- cytological techniques & Video link https://www.youtube.com/watch?v=nUjK4n3_1C8 https://www.youtube.com/watch?v=Ad5VGbA-vk&t=360s

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Work sent through Google classroom/G mail/Online Quiz/ZOOM Learning Platform

Topic 1.4-Enzymes

L.O - Analyse the Structure of enzymes as globular proteins Specificity of enzymes, activation energy.

Biology Students Book 1

B1- Sunday – 8th period (Zoom) B2- Tuesday – 3rd period (Zoom)	2nd assessment via Google forms-20 marks Topics-1.3[Text Book Page Nos-36-50]
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B1 - Monday – 1st & 2nd period (Zoom)

Students able to-

- Compare the intracellular and extra cellular enzyme action. ● **Describe**, with the aid of diagrams, the mechanism of action of enzyme molecules. ● **How to compare** the mode of action of enzymes in terms of an active site, specificity in induced fit and lock and key.
- What is the significance of enzymes in living organisms

BOARD WORKS –Enzymes-No -3-6]

Video and PPT: Lock and key theory and induced fit theory

Websites:www.science.co.uk/biology/enzymes.html,
www.internet4classrooms.com

- Homework, practice and support: Maths *Graphing– Using graphs and data 1*

Activation energy from friction or direct heating. A video is available at www.sciencefix.com. Search for ‘activation energy’

Text Book Page Numbers – 54-56