

YEAR 12- Batch 1 & 2 - BIOLOGY

WEEK 4 (20th Sept - 24th Sept)

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

Topic 2.1– Eukaryotes

L.O – Describe the ultra structure of Nucleus & Mitochondria.

Biology Students Book 1

<p>B1- Tuesday – 4th period(Zoom)</p> <p>B2 – Monday – 5th period(Zoom)</p>	<p>Students able to Draw & label the various parts of the nucleus. Describe the role of nuclear membrane, nuclear pore & nucleolus . Differentiate euchromatin & heterochromatin Students to research on ultra structure of mitochondria Resources: AS Board works ,PowerPoint & Video link https://www.youtube.com/watch?v=nD2Fd0KyICA https://www.youtube.com/watch?v=oy0nhMMDL1M</p>
<p>B1 - Thursday – 1st period(Zoom)</p> <p>B2 - Monday – 8th period(Zoom)</p>	<p>Students able to Draw & label the various parts of the mitochondria. Describe the role of mitochondrial membrane, cristae, F1 particles & matrix . Significance of 70S ribosome & mitochondrial DNA Students to complete text book questions pg. Resources: AS Board works ,PowerPoint & Video link https://www.youtube.com/watch?v=1xX8qoEUMQM https://www.youtube.com/watch?v=c4JsEBI9u6I</p>
<p>B1 - Thursday– 2nd period</p> <p>B2 - Wednesday – 5th period</p>	<p>GC-Asynchronous learning Students to research on Ultra structure of Centrioles & cytoskeletal structures found in eukaryotic cells. Task to be turned in Google classroom as Google docs . Include references</p>

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Topic 1-Biological molecules 1- Proteins

L.O- Understand the basic structure of an amino acid and the formation of polypeptides and proteins, denaturation of proteins, structure of insulin ,keratin, haemoglobin and collagen

Biology Student book 1

<p>B1- Sunday – 8th period</p> <p>B2- Tuesday – 3rd period</p> <p>ZOOM SESSION</p>	<p>Students able to-</p> <ul style="list-style-type: none"> ●Explain the meaning of the terms primary structure, secondary structure, tertiary structure and quaternary <i>structure</i> of proteins ●Describe the types of bonding (hydrogen, ionic, disulfide and hydrophobic interactions) that hold the molecule in shape <p>BOARD WORKS –PROTEINS-No -3-15]</p> <p>Video and PPT: Structure of proteins primary, secondary, tertiary and quarternary</p> <p>Websites:www.science.co.uk/biology/proteins.html, www.internet4classrooms.com</p> <p>www.science.co.uk/biology/biologicalmolecules.html,</p> <p>Text Book Page Numbers – 28 to 31</p> <p>Worksheet – Biological molecules</p>
<p>B1 - Monday – 1st & 2nd period</p> <p>B2- Thursday – 5th and 6th period</p> <p>ZOOM SESSION</p>	<p>Students able to-</p> <ul style="list-style-type: none"> ●Describe with the aid of diagrams, the formation and breakage of peptide bonds in the synthesis and hydrolysis of dipeptides and polypeptides; ●Describe, with the aid of diagrams, the structure of a collagen molecule <p>BOARD WORKS –PROTEINS-No -3-15]</p> <p>Video and PPT: Structure of proteins primary, secondary, tertiary and quarternary</p> <p>Websites:www.science.co.uk/biology/proteins.html, www.internet4classrooms.com</p>

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Numbers – 28 to 31

Worksheet – Biological molecules