Academic Year العام الدراسي	2022/2023
Term الفصل	1
Subject المادة	Biology
Grade الصف	11
Stream المسار	Elite
Number of Main Questions عدد الأسئلة الأساسية	20
Marks per Main Question الدرجات لكل سؤال أساسي	5
Number of Bonus Questions عدد الأسئلة الإضافية	5
Marks per Bonus Question الدرجات لكل سؤال إضافي	4
Type of All Questions نوع كافة الأسئلة	MCQ اختيار من متعدد
Maximum Overall Grade* الدرجة القصوى الممكنة*	100
Exam Duration مدة الامتحان	120 minutes
Mode of Implementation طريقة التطبيق	SwiftAssess
Calculator الآلة الحاسبة	Allowed

	Question** السؤال**	Learning Outcome*** ناتج التعلم***	Reference(s) in the Student Book (Arabic / English Version) المرجع في كتاب الطالب (النسخة العربية / الانجليزية) Example/Exercise مثال/تمرين	Page الصفحة
Main Questions - الأسئلة الأساسية	1	Describe the composition of macromolecules required by living organisms.	Teacher's manual, Chapter 2, Section 2.2, Check Your Progress Q1	8 (actual book page, not the pdf)
			Chapter 2, question bank, content review Q6 & 8	Assessments: Question Bank
	2	Explain how the properties of water that result from its polarity and hydrogen bonding affect its biological function.	Teacher's manual, Chapter 2, Section 2.3, Check Your Progress Q1	8 (actual book page, not the pdf)
			Chapter 2, question bank, content review Q16	Assessments: Question Bank
	3	Explain how the properties of water that result from its polarity and hydrogen bonding affect its biological function.	Teacher's manual, Chapter 2, AP Assessment Q4	14 (actual book page, not the pdf)
			Teacher's manual, Chapter 2,Section 2.3, Check Your Progress Q2	15 (actual book page, not the pdf)
	4	Describe the composition of macromolecules required by living organisms.	Teacher's manual, Chapter 3,Section 3.2, Check Your Progress Q1	14 (actual book page, not the pdf)
			Chapter 3, question bank, content review Q1	Assessments: Question Bank
	5	Describe the properties of the monomers and the type of bonds that connect the monomers in biological macromolecules.	Teacher's manual, Chapter 3, Section 3.2, Check Your Progress Q2	14 (actual book page, not the pdf)
			Teacher's manual, Chapter 3, AP Assessment Q1	14 (actual book page, not the pdf)
	6	Describe the composition of macromolecules required by living organisms.	Teacher's manual, Chapter 3, Section 3.3, Check Your Progress Q2	14 (actual book page, not the pdf)
			Chapter 3, question bank, content review Q9	Assessments: Question Bank
	7	Explain how a change in the subunits of a polymer may lead to changes in structure or function of the macromolecule.	Teacher's manual, Chapter 3, Section 3.5, Check Your Progress Q2	14 (actual book page, not the pdf)
			Chapter 3, question bank, content review Q13	Assessments: Question Bank
	8	Describe structural and functional evidence on cellular and molecular levels that provides evidence for the common ancestry of all eukaryotes.	Teacher's manual, Chapter 4, Section 4.1, Check Your Progress Q2	19 (actual book page, not the pdf)
			Chapter 4, question bank, content review Q16	Assessments: Question Bank
	9	Explain the effect of surface area-to-volume ratios on the exchange of materials between cells or organisms and the environment	Teacher's manual, Chapter 4, Section 4.1, Check Your Progress Q3	19 (actual book page, not the pdf)
			Teacher's manual, Chapter 4, AP Assessment Q1	20 (actual book page, not the pdf)
	10	Describe similarities and/or differences in compartmentalization between prokaryotic and eukaryotic cells.	Teacher's manual, Chapter 4, Section 4.2, Check Your Progress Q1	19 (actual book page, not the pdf)
			Teacher's manual, Chapter 4, AP Assessment Q3	21 (actual book page, not the pdf)
	11	Explain how specialized structures and strategies are used for the efficient exchange of molecules to the environment.	Teacher's manual, Chapter 4, Section 4.5, Check Your Progress Q3	20 (actual book page, not the
			Teacher's manual, Chapter 4,AP Assessment Q8	21 (actual book page, not the pdf)
	12	Explain how subcellular components and organelles contribute to the function of the cell.	Teacher's manual, Chapter 4, Section 4.8, Check Your Progress Q1	20 (actual book page, not the
			Chapter 4 question bank, content review Q1	Assessments: Question Bank
	13	Describe the relationship between the functions of endosymbiotic organelles and their free-living ancestral counterparts.	Teacher's manual, Chapter 4, AP Assessment Q2	21 (actual book page, not the pdf)
			Chapter 4 question bank, content review Q5	Assessments: Question Bank
	14	Explain how the structure of biological membranes influences selective permeability.	Teacher's manual, Chapter 5, Section 5.1, Check Your Progress Q1	25 (actual book page, not the
			Chapter 5 question bank, content review Q13	Assessments: Question Bank
	15	Explain how the structure of biological membranes influences selective permeability.	Teacher's manual, Chapter 5, Section 5.2, Check Your Progress Q3	25 (actual book page, not the pdf)
			Teacher's manual, Chapter 5, AP Assessment Q3	26 (actual book page, not the pdf)
	16	Describe the processes that allow ions and other molecules to move across membranes.	Teacher's manual, Chapter 5, Section 5.3, Check Your Progress Q1	25 (actual book page, not the pdf)
			Chapter 5 question bank, content review Q3	Assessments: Question Bank
	17	Describe the ways that cells can communicate with one another.	Teacher's manual, Chapter 5, AP Assessment Q6	26 (actual book page, not the pdf)
			Teacher's manual, Chapter 5, AP Assessment Q10	27 (actual book page, not the pdf)
	18	Describe the role of energy in living organisms.	Teacher's manual, Chapter 6, Section 6.1, Check Your Progress Q1	30 (actual book page, not the pdf)
			Chapter 6 question bank, content review Q3	Assessments: Question Bank
	19	Explain how enzymes affect the rate of biological reactions.	Teacher's manual, Chapter 6, Section 6.3, Check Your Progress Q1	31 (actual book page, not the pdf)
			Chapter 6 question bank, content review Q6	Assessments: Question Bank
	20	Explain how changes to the structure of an enzyme may affect its function.	Teacher's manual, Chapter 6,Section 6.1, Check Your Progress	31 (actual book page, not the
			Teacher's manual, Chapter 6, AP Assessment Q3	31 (actual book page, not the
Bonus Questions - الأسئلة الإضافية	21	A learning outcome from the SoW****	Undisclosed	Undisclose
		ناتج من الخطة الفصلية****	غير معلن	غير معلن
	22	A learning outcome from the SoW	Undisclosed	Undisclosed
		ناتج من الخطة الفصلية	غير معلن	غير معلن
	23	A learning outcome from the SoW	Undisclosed	Undisclosed
		ناتج من الخطة الفصلية	غير معلن	غير معلن
	24	A learning outcome from the SoW	Undisclosed	Undisclosed
		ناتج من الخطة الفصلية	غير معلن	غير معلن
	25	A learning outcome from the SoW	Undisclosed	Undisclosed
		ناتج من الخطة الفصلية	غير معلن	غير معلن

*	While the overall number of marks is 120 (20*5=100 for main questions and 5*4=20 for bonus questions), the student's final grade will be out of 100.
*	مع أن مجموع العلامات الكاملة هو 120 (20*5=100 من الأسئلة الأساسية و5*4=20 من الأسئلة الإضافية)، فإن درجة الطالب(ة) النهائية تحتسب من 100.
**	Questions might appear in a different order in the actual exam, and bonus questions will be clearly marked on the system (or on the exam paper in the case of G3 a
**	قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي، وسيتم تحديد الأسئلة الإضافية بشكل واضح على النظام (أو على ورقة الامتحان في حالة الصفين G3 وG4).
***	As it appears in the textbook, LMS, and scheme of work (SoW).
***	كما وردت في كتاب الطالب وLMS والخطة الفصلية.
****	The 5 bonus questions will target LOs from the SoW. These LOs can be within the ones used for the 20 main questions or any other ones listed in the SoW.
****	الأسئلة الإضافية الخمس تستهدف نواتج تعلم من الخطة الفصلية. هذه النواتج قد تكون من ضمن النواتج المستهدفة عبر الأسئلة الأساسية العشرين أو أي نواتج أخرى متضمنة في الخطة الفصلية.