Academic Year العام الدراسي	2024/2025
Term الفصل	1
Subject المادة	Mathematics/Reveal الرياضيات/ريفيل
Grade الصف	11
Stream المسار	Elite النخبة
Number of MCQ عدد الأسئلة الموضوعية	15
Marks of MCQ درجة الأسئلة الموضوعية	4
Number of FRQ عدد الأسئلة المقالية	5
Marks per FRQ الدرجات للأسئلة المقالية	6-11
Type of All Questions نوع كافة الأسئلة	MCQ/ الأسئلة الموضوعية FRQ/ الأسئلة المقالية
Maximum Overall Grade الدرجة القصوى الممكنة	100
Exam Duration - مدة الامتحان	150 minutes
Mode of Implementation- طريقة التطبيق	Paper-Based
Calculator الآلة الحاسبة	Allowed مسموحة

Question* السؤال*		Lesson** الدرس**	Reference(s) in the Student Book (Arabic Version) المرجع في كتاب الطالب (النسخة العربية)	
			Example/Exercise مثال/تمرين	Page الصفحة
FRQ - الأسئلة المقالية	1	Express algebraically and operate with vectors in space	25-47	36
		Find dot products of and angles between vectors in space	9-21	44
		Find cross products of vectors in space, and use cross products to find area and volume	24-35 & 58-59	44-45
	2	Identify polar equations of conics	1-9	88
		Write and graph the polar equation of a conic given its eccentricity and the equation of its directrix	10-17	88
		Convert complex numbers from rectangular to polar form and vice versa	1-17	99
		Find products, quotients, powers, and roots of complex numbers in polar form	36-54	99
	3	Use mathematical induction to prove summation formulas and properties of divisibility involving a positive integer n	1-10 & 13-24	147
	4	Use power series representations to approximate values of transcendental functions	7-19 & 52-58	164-165
	5	Use the normal distributions to find confidence intervals for the mean Use t-distributions to find confidence intervals for the mean	1-12	226
MCQ - الأسئلة الموضوعية	6	Write a vector as a linear combination of unit vectors	28-37	19
	7	Find the dot product of two vectors and use the dot product to find the angle between them	42-50	29
	8	Express algebraically and operate with vectors in space	48-59	36-37
	9	Find dot products of and angles between vectors in space	22-29	44
	10	Graph simple polar equations	43-55	61
	11	Identify and graph classical curves	35-47	70
	12	Convert between polar and rectangular equations	26-45	79
	13	Investigate several different types of sequences	18-35	117
	14	Find nth terms and arithmetic means of arithmetic sequences	63-75	128
	15	Find sums of n terms of geometric series and the sums of infinite geometric series	40-47	137
	16	Use the Binomial Theorem to write and find the coefficients of specified terms in binomial expansions	27-30	155
	17	Identify the shapes of distributions in order to select more appropriate statistics	23-27	186
	18	Construct a probability distribution, and calculate its summary statistics	11-19	195
	19	Find probabilities for normal distributions, and find data values given probabilities	17-22	205-206
	20	Use the Central Limit Theorem to find probabilities	5-10	216

* Questions might appear in a different order in the actual exam, or on the exam paper in the case of G3, G4 and G5.

* قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي، أو على ورقة الامتحان في حالة الصفوف G3، G4 وG5