

Academic Year	2023/2024
العام الدراسي	
Term	1
الفصل	
Subject	Physics- Inspire
المادة	الفيزياء
Grade	10
الصف	
Stream	General
المسار	العام
Number of MCQ	15
عدد الأسئلة الموضوعية	
Marks of MCQ	4
درجة الأسئلة الموضوعية	
Number of FRQ	5
عدد الأسئلة المقالية	
Marks per FRQ	04-Oct
الدرجات للأسئلة المقالية	
Type of All Questions	MCQ/ الأسئلة الموضوعية FRQ/ الأسئلة المقالية
نوع كافة الأسئلة	
Maximum Overall Grade	100
الدرجة القصوى الممكنة	
Exam Duration	150 minutes
مدة الامتحان	
Mode of Implementation	SwiftAssess & Paper-Based
طريقة التطبيق	
Calculator	Allowed
الآلة الحاسبة	مسموحة

Question*	Learning Outcome/Performance Criteria**	Reference(s) in the Student Book	
		المراجع في كتاب الطالب	Page
*السؤال	**نتائج التعلم/معايير الأداء	Example/Exercise مثال/تمرين	الصفحة
1	Relate the slope of a velocity time graph to the average acceleration of the object in motion	example 3	68
2	Apply the equation of motion relating the final velocity of an object to its initial velocity, uniform acceleration, and time ( $v_f = v_i + at$ )	problems 5,6	63
3	Use appropriate significant figures to record answers from a mathematical operation, with the correct number of digits	problem 8	13
4	Differentiate between distance travelled and displacement	figure 10	37
5	Apply the equation of motion, ( $x_f = vavg t + xi$ ) or ( $x_f - xi = vavg t$ ), in numerical problems to calculate the position or other physical quantities	exple 4	48
6	Classify physical quantities into vector and scalar quantities (distance, mass, displacement, speed, velocity, acceleration, force, work, energy, pressure)	as mentioned in the book	34
7	Apply the alternative equation of motion relating an object's final velocity to its initial velocity, its constant acceleration, and its initial and final positions ( $v_f^2 = v_i^2 + 2a(x_f - x_i)$ )	problem 16	67
8	Define a coordinate system and identify the origin, position, and distance in a coordinate system	figure 9	36
9	Describe the motion of an object if its velocity and acceleration are either in the same directions or opposite directions, hence state if an object is slowing down or speeding up	as mentioned in the book	57
10	Define and calculate the average acceleration	problem 12	64
11	Recognize uniform or non-uniform motion from a motion diagram or a particle model	figure 2	57
12	Calculate the displacement as the area under the curve of a velocity-time graph	problem 2	62
13	Classify physical quantities into vector and scalar quantities (distance, mass, displacement, speed, velocity, acceleration, force, work, energy, pressure)	as mentioned in the book	34
14	Interpret the velocity-time graph for a single or multiple objects in motion	figure 6	59
15	Define displacement as the change in an object's position Define average velocity and average acceleration	as mentioned in the book	34 44, 60
16	Plot a position-time graph given position-time values.	table 1 and figure 11	38
17	Represent data in graphical form, draw the best fit line, and identify from the shape of the graph if the relationship between the variables is linear, quadratic or inverse Find the slope from the graph of a linear relationship	as mentioned in the book	20-22
18	A. Apply the equation of motion relating the final position of an object to its initial position, initial velocity, uniform acceleration, and time	example 4	70
19	Define and identify independent and dependent variables for a given data set	as mentioned in the book	18
20	Interpret a position-time graph that represents the motion of a single object Interpret a position-time graph that represents the motion of multiple objects	example problem 2	41
*	Questions might appear in a different order in the actual exam, or on the exam paper in the case of G3 and G4.		
*	قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي، أو على ورقة الامتحان في حالة الصفين G3 وG4.		
**	As it appears in the textbook, LMS, and (Main_IP).		
**	كما وردت في كتاب الطالب وLMS والخطة الفصلية.		