Academic Year	2023/2024			
العام الدراسي				
Term	2			
القصل				
Subject	Chemistry /INSPIRE			
المادة	الكيمياء / إنسبير			
Grade	11			
الصف				
PLAN -C				
Stream	Advanced			
المسار	المتقدم			
Number of MCQ عدد الأسئلة الموضوعية	20			
Marks of MCQ درجة الأستلة الموضوعية	5			
Number of FRQ	0			
عدد الأسئلة المقالية				
Marks per FRQ الدرجات للأسئلة المقالمة	0			
	الأستلة الموضوعية /MCQ			
Type of All Questions نوع كافة الأسئلة	mcq/ waspendass			
Maximum Overall Grade				
الدرجة القصوى الممكنة	100			
مدة الإمتحان - Exam Duration	150 minutes			
طريقة التطبيق- Mode of Implementation	SwiftAssess			
Calculator	Allowed			
الألة الحاسبة	مسموحة			

Qu	estion*	Learning Outcome/Performance Criteria**	(Reference(s) in the Student Book (English Version (المرجع في كتاب الطالب (النسخة الانجليزية)			
•	السؤال	ئاتچ التطم/ معاييرالأداء**	Example/Exercise	Page الصفحة		
			مثال/تمرين	الصفحة		
	1	CHM.5.3.04.001.01 List six general properties of aqueous acids (taste, color of indicators, reaction with metals, metal carbonates and base, and electrical conductivity)	Text book+ Practice problems	116,117		
	2	ORAS.3.04.001.08 Define acids and bases according to limited clowy theory, indicating the acid, base, conjugate acid, conjugate base and conjugate acid dase pairs, when chemical equations, formula or space-filling models are given	Text book + Practice problems	119,120,121		
	3	CHM.5.3.04.001.11 Define acids and bases according to Lewis theory	Text book	123,124		
	4	CHM.5.3.04.003.03 Compare between strong and weak bases (using enamples, particulate diagrams and ionization equations)	Text book+ Practice problems	130,131		
	5	CHM.S.3.04.006.01 Define acid ionization constant, Ks, while writing the ionization constant expression for different weak acids	Text book+ Practice problems	129		
	6	CHM.S.3.04.003.04 Identify the relationship between the strength of an acid and its conjugate base and the strength of a base and its conjugate acid	Text book	128		
	7	CMM.5.3.04.007.07 Calculate the pH of a strong acid and weak acid given its concentration	Example Problems 2&3+ Practice problems	134,135,136		
الاستاق الموادومية - 2010	8	GMA.S.3.04.006.04 Calculate the acid dissociation constant, Ka, given acid concentration, [IH-] and pH	Example Problem5+ Practice problems	139		
	9	CHM.5.3.04.009.01 Describe the titration curve of acid with base with respect to type of pH and nature of solution at equivalence point, indicator used and its color change and volume of bitrant needed for changing color of indicator.	Text book+ fiqures20	142,143		
	10	CHM.5.3.04.009.01 Describe the titration curve of acid with base with respect to type of pH and nature of solution at equivalence point, indicator used and its color change and volume of titrant needed for changing color of indicator.	Text book+ fiqures22	144,145		
	11	CHM.5.3.04.004.06 Calculate the molarity (concentration) and volume of a solution using titration data	Example Problem6+ Practice problems +problem solving strategy	145,146		
	12	CMM.S.3.05.001.01 Distinguish between oxidation and reduction in terms of loss and gain of electrons, oxygen and hydrogen	Text book	156,157		
	13	OWA.S.3.05.001.04 Distinguish between oxidation and reduction in terms of change in oxidation number	Text book +table 1	158		
	14	CHAS 3.05.001.08 identify oxidizing agent and reducing agent in a redox reaction	Text book +table 2	159		
	15	CHAS 3.05.001.03 Assign oxidation number to atoms, ions and compounds according to a set of rules	Example Problem2+ Practice problems+ table 3	162,163,164		
	16	CHM. S. 3. 05.002.05 Balance redox reaction in basic medium using half-reaction method	Example ProblemS+ Practice problems + problem solving strategy	169,170,171,172		
	17	CHM.5.3.05.007.02 Identify components of a voltaic or galvanic cell (anode, cathode, salt bridge or porous barrier, wires, electrolyte compartments); while explaining the role of each component, when does the reaction start and determining the direction of electron and current flow	Text book	178,179		
	18	OHM.5.3.05.004.02 Describe standard hydrogen electrode [SHE], while identifying the importance of its E* value and writing the half-cell reactions of the two possible reactions that could occur at the hydrogen electrode	Text book +figures 5&6+table 1	182,183,184		
	19	OMM. 5.3.05.007.05 Use the half-cell standard reduction potentials to calculate the electrochemical cell standard potential, while determining whether the redox reactions are spontaneous or non-spontaneous	Example Problem1+ Practice problems	185,186,187,188		
	20	CHM.5.1.05.011.03 Compare between electrolytic cell and voltaic cell in terms of identifying where will reduction and oxidation processes take place, anode, cathode, direction of electron flow and current flow and spontaneity of the reaction occurring	Text book	200		
	Questions might appear in a different order in the actual exam					
_		قلور واضنلة بارتيب مختلف في الارتجان العلي				
	As it sensor in the technol (IAE Edition Grade 17 Augusta Student Edition). IAES and Addrs (IB)					
			بر المتقدم طبعة دولة الإمارات العربية المتحدة) وLMS والخطه العصــــــــــــــــــــــــــــــــــــ	كما وردت في كتاب الطالب(كتاب الطالب الصف التابي عنا		