JSU Science (55) Form 2

Summative Assessment (UASA)

SECTION A

Theme	Learning Area/ Content Standard	Remembering (PS01)	Understanding (KS01)		Applying (KS02)		Range of Marks
		Low	Low	Medium	Medium	High	
THEME 1: MAINTENANCE AND CONTINUITY OF LIFE	**1.0 Biodiversiti**						6–9
	1.1 Diversity of organisms		1 (Question 1)				
	1.2 Classification of organisms	1 (Question 2)					
	2.0 Ecosystem						
	2.1 Energy flow in an ecosystem		1 (Question 4)				
	2.2 Nutrient cycle in an ecosystem						
	2.3 Interdependence and interaction among organisms and between organisms and the environment		1 (Question 3)				
	2.4 Role of humans in maintaining a balanced nature						
	3.0 Nutrition						
	3.1 Classes of food			1 (Question 5)			
	3.2 Importance of a balanced diet						
	3.3 Human digestive system	1 (Question 6)					
	3.4 Process of absorption and transportation of digested food and defecation						
	4.0 Human Health						
	4.1 Infectious and non-infectious diseases	1 (Question 7)					
	4.2 Body defence						
THEME 2: EXPLORATION OF ELEMENTS IN NATURE	**5.0 Water and Solution**						2–4
	5.1 Physical characteristics of water		1 (Question 8)				
	5.2 Solution and rate of solubility						
	5.3 Water purification and water supply		1 (Question 9)				
	6.0 Acids and Alkalis						
	6.1 Properties of acids and alkalis			1 (Question 10)			
	6.2 Neutralisation			1 (Question 11)			

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THEME 3: ENERGY AND SUSTAINABILITY OF LIFE	**7.0 Electricy and Magnetism**						**5–8**
	7.1 Electricity			1 (Question 12)			
	7.2 Flow of electric current in a series circuit and parallel circuit					1 (Question 13)	
	7.3 Magnetism						
	8.0 Force and Motion						
	8.1 Force						
	8.2 Effects of force	1 (Question 15)			1 (Question 14)		
	9.0 Heat						
	9.1 Relationship between temperature and heat						
	9.2 Heat flow and thermal equilibrium						
	9.3 Principle of expansion and contraction of matter		1 (Question 16)				
	9.4 Relationship between types of surface of object, and heat absorption and emission					1 (Question 17)	
	10.0 Sound Waves						
	10.1 Characteristics of sound waves						
	10.2 Loudness and pitch of sound			1 (Question 18)			
	10.3 Phenomena and application of reflection of sound waves						
THEME 4: EARTH AND SPACE EXPLORATION	**11.0 Stars and Galaxies in the Universe**						**1–3**
	11.1 Stars and galaxies in the universe	1 (Question 19)					
	12.0 Solar System						
	12.1 Solar System	1 (Question 20)					
	13.0 Meteoroid, Asteroid, Comet						
	13.1 Other objects in the Solar System, such as meteoroids, asteroids and comets						
	Total marks	**6**	**6**	**5**	**1**	**2**	**20**

SECTION B

Question Number	Theme	Content Standard	Remembering (PS01)		Understanding (KS01)		Marks
			Low		Low		
1	MAINTENANCE AND CONTINUITY OF LIFE	2.1 Energy flow in an ecosystem	1(a)	2	1(b)	2	**4**
2		4.1 Infectious and non-infectious diseases	2(a)	2			**4**
		4.2 Body defence	–		2(b)	2	
3	ENERGY AND SUSTAINABILITY OF LIFE	8.2 Force	3(a)	2	3(b)	2	**4**
4		10.2 Loudness and pitch of sound	4(a)	2	–		**4**
		10.3 Phenomena and application of reflection of sound waves			4(b)	2	
5	EARTH AND SPACE EXPLORATION	12.1 Solar System	5(a)	2	5(b)	2	**4**
						Total marks	**20**

SECTION C

Question	Theme	Learning Standard	Remembering (PS01)		Understanding (KS01)		Applying (KS02)				Analysing (KS03)				Evaluating (KS04)		Creating (KS05)		SPS (01–12)			Marks
			L		L		L		M		M		H		H		H					
1	2	2.3																	1(a)	SPS 10, M	2	8
																			1(b)	SPS 11, M	1	
																			1(c)	SPS 3, M	1	
																			1(d)	SPS 8, L	2	
																			1(e)	SPS 12, H	2	
2	2	3.3	2(a)(i)	1	2(a)(ii)	1	2(b)	2			2(c)	2										8
					2(d)(i)	1	2(d)(ii)	1														
3	3	7.2	3(a)	2	3(b)	2			3(d)	3			3(c)	3								10
4	3	6.1, 6.2			4(a)	2			4(d)(ii)	1	4(b)(i)	1			4(b)(ii)	1						10
									4(d)(iii)	2	4(c)(i)	1										
											4(d)(i)	1			4(c)(ii)	1						
5	5	9.2, 9.4	5(a)(i)	1	5(a)(iv)	1			5(a)(ii)	1			5(a)(iii)	3	5(b)(iii)	1						12
					5(b)(ii)	1			5(b)(i)	2					5(b)(iv)	2						
6	1	1.1, 1.2	6(c)(i)	1					6(a)(ii)	2	6(a)(i)	1			6(b)(i)	1	6(d)(ii)	3				12
									6(c)(ii)	1	6(b)(ii)	2			6(d)(i)	1						
Total marks				**5**		**8**		**3**		**12**		**8**		**6**		**7**		**3**	**8**			**60**

SCIENCE PROCESS SKILLS		Marks	SCIENCE PROCESS SKILLS		Marks
SPS 1	Observing	1	SPS 7	Using space-time relationship	1
SPS 2	Classifying	2	SPS 8	Interpreting data	1 or 2
SPS 3	Measuring and using numbers	1 or 2	SPS 9	Defining operationally	1
SPS 4	Making inferences	1 or 2	SPS 10	Controlling variables	1 or 2
SPS 5	Predicting	1	SPS 11	Making hypothesis	1
SPS 6	Communicating	2	SPS 12	Experimenting	1 or 2