### AGA KHAN UNIVERSITY EXAMINATION BOARD

#### SECONDARY SCHOOL CERTIFICATE

#### **CLASS IX EXAMINATION**

#### APRIL/MAY 2019

**General Science Paper II** 

Time: 2 hours 15 minutes Marks: 45

#### **INSTRUCTIONS**

Please read the following instructions carefully.

1. Check your name and school information. Sign if it is accurate.

I agree that this is my name and school. Candidate's Signature

#### **RUBRIC**

- 2. There are TEN questions. Answer ALL questions. Questions 8, 9 & 10 each offer TWO choices. Attempt any ONE choice from each.
- 3. When answering the questions:

Read each question carefully.

Use a black pointer to write your answers. DO NOT write your answers in pencil.

Use a black pencil for diagrams. DO NOT use coloured pencils.

DO NOT use staples, paper clips, glue, correcting fluid or ink erasers.

Complete your answer in the allocated space only. DO NOT write outside the answer box.

4. The marks for the questions are shown in brackets ().

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Q.1.	(Total 4 Marks)
Water is a universal solvent. Describe the given property of water with TWO reas examples.	ons and TWO
. 0	14
Q.2.	(Total 4 Marks)
Describe any TWO reasons for the requirement of food by living organisms.	
26, 8	
700	

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Q.3.	(Total 4 Marks)
Hassan has blood group <b>A</b> and Ali has blood group <b>AB</b> .	
Identify the antigen and antibody present in the blood groups of Hassan and Ali.	
Q.4.	(Total 4 Marks)
Write any FOUR examples by which energy crisis can be reduced in a country.	
PLEASE TURN OVER THE PAGE	

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Q.5.		(Total 5 Marks)
a. Give	e any TWO reasons for the increase in thermal	pollution in urban areas than in rural areas. (2 Marks)
b. Writ	e any THREE effects of thermal pollution on the	he environment. (3 Marks)
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	· A	l'airo
	10%	
Q.6.	26, 8	(Total 4 Marks)
Complete capacitors	the given table by naming the types of capacito are used.	ors and electrical devices in which these
S. No.	Type of Capacitor	Electrical Device
1	1800	
2		

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Q.7. (Total 5 Marks)  Mention any FIVE precautionary measures to avoid the dangers associated with the use of electrical appliances at homes.
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Leaching Chillips
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Q.8	. (Total 5 Marks)	
	EITHER	
a.	Describe any FIVE commercial uses of science and technology in today's modern world.	
	OR	
b.	Write names of any TWO non-Muslim scientists and describe their contributions in the field of science.	
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	00, 00,	

Pag	Page 7 of 12		
Q.9	. (Total 5 Marks)		
	EITHER		
a.	Describe the process of photosynthesis and respiration in plants.		
	OR		
b.	Graphite, diamond and buckyballs are three crystalline allotropes of carbon that occur naturally.		
	Write any FIVE uses of these allotropes of carbon by mentioning at least ONE use of each.		
	V. O		
	700		
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Q.10	0.	(Total 5 Marks)	
	EITHER		
a.	Situation A	A person experiences frequent watery stool with blood and mucus.	
	Situation B	A person experiences hard faeces that are difficult to eliminate.	
	i. Identify the d	sorder of gut in each of the given situations <b>A</b> and <b>B</b> . (1 Mark)	
		ΓWO preventive measures for each of the identified disorders in part i.  (4 Marks)	
		OR	
b.	Ahmed makes fertil	iser for gardening by using manure from livestock animals.	
	i. State if this ty	pe of fertiliser would be organic or inorganic. (1 Mark)	
	ii. Describe any	ΓWO advantages of the type of fertiliser identified in part i. (4 Marks)	
10 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
		END OF PAPER	

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