

**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 ( ).

Q.1.

(Total 4 Marks)

Water is a universal solvent. Describe the given property of water with TWO reasons and TWO examples.

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

Q.2.

(Total 4 Marks)

Describe any TWO reasons for the requirement of food by living organisms.

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

April/May 2019  
Teaching & Learning only

Q.3.

(Total 4 Marks)

Hassan has blood group **A** and Ali has blood group **AB**.

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

Q.5. (Total 5 Marks)

a. Give any TWO reasons for the increase in thermal pollution in urban areas than in rural areas. (2 Marks)

---

---

---

---

b. Write any THREE effects of thermal pollution on the environment. (3 Marks)

---

---

---

---

---

---

---

Q.6. (Total 4 Marks)

Complete the given table by naming the types of capacitors and electrical devices in which these capacitors are used.

S. No.	Type of Capacitor	Electrical Device
1		
2		

Q.7.

(Total 5 Marks)

Mention any FIVE precautionary measures to avoid the dangers associated with the use of electrical appliances at homes.

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

April/ May 2019  
for  
Teaching & Learning only

PLEASE TURN OVER THE PAGE

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.

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

April/ May 2019  
Teaching & Learning only

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.

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

April/ May 2019  
Teaching & Learning only

PLEASE TURN OVER THE PAGE





Please use this page for rough work

April/ May 2019  
for  
Teaching & Learning only

Please use this page for rough work

April/ May 2019  
for  
Teaching & Learning only

Please use this page for rough work

April/ May 2019  
for  
Teaching & Learning only

Please use this page for rough work

April/ May 2019  
for  
Teaching & Learning only