

**AGA KHAN UNIVERSITY EXAMINATION BOARD**

**SECONDARY SCHOOL CERTIFICATE**

**CLASS IX**

**General Science Paper II**

**Time: 2 hours 05 minutes    Marks: 40**

**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 and 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 ( ).
5. You may use a simple calculator if you wish.

Q.1. (Total 3 Marks)

Describe the role of science and technology in THREE different fields in the current times.

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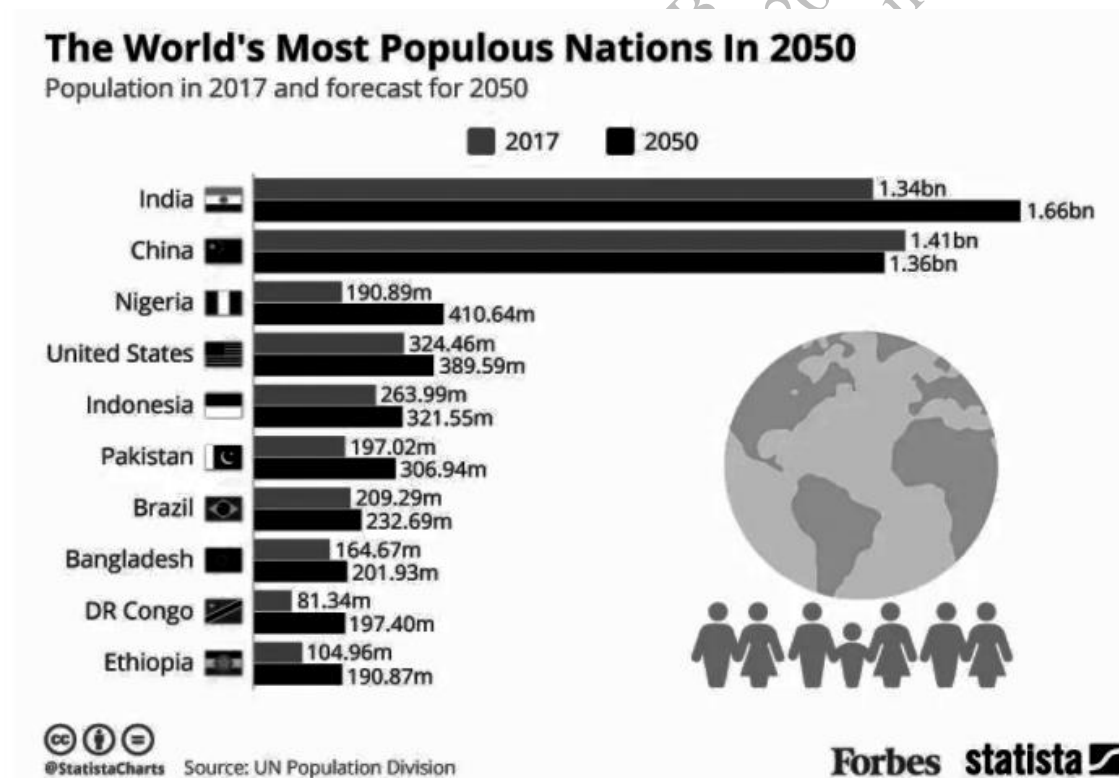
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Q.2. (Total 3 Marks)

The given statistical chart shows the comparison of the population growth of Pakistan with other countries.



a. Which neighbouring country of Pakistan is predicted to have reduction in its population growth in 2050? (1 Mark)

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- b. Describe any TWO general strategies which can be taken by a government to reduce its population over a period of time. (2 Marks)

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Q.3. (Total 4 Marks)

Describe any FOUR methods that can be used to conserve water at home.

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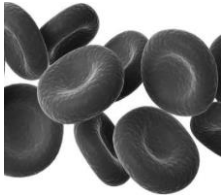
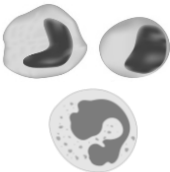
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Q.4. (Total 4 Marks)

Identify the type of blood cells shown in each of the given diagrams and write ONE function of each.

Type of Blood Cells	Identification	Function
		
		

Q.5. (Total 3 Marks)

Shaista is the IT Manager at a company in Karachi. She works for 10 hours a day sitting in the office chair. Shaista wants to change her sedentary lifestyle for her wellbeing.

Suggest any THREE ways to Shaista that can help her in bringing the desired change.

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Q.6.

(Total 4 Marks)

Write the conversion of energy from one form to another shown in each of the given diagrams in the table.

Diagrams	Conversion of Energy
	
	
	
	

Q.7.

(Total 4 Marks)

Draw the symbols of the following electrical components in the given table.

Name of the Component	Symbol
Bulb	
Switch	
Battery	
Capacitor	

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**EITHER**

- OR**

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Q.9.

(Total 5 Marks)

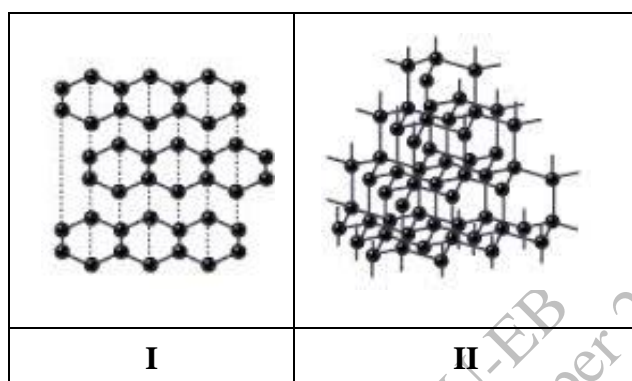
**EITHER**

a.

- i. Identify the main ingredient of a vaccine. (1 Mark)
- ii Explain the mechanism of the working of a vaccine in immunisation. (4 Marks)

**OR**

b. The given diagrams, **I** and **II**, show the structures of two different allotropes of carbon.



- i. Identify each allotrope in diagrams, **I** and **II**. (2 Marks)
- ii. Write any THREE differences between the given allotropes (**I** and **II**) of carbon. (3 Marks)

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