

**AGA KHAN UNIVERSITY EXAMINATION BOARD**

**SECONDARY SCHOOL CERTIFICATE**

**CLASS IX**

**ANNUAL EXAMINATIONS (THEORY) 2025**

**Physics Paper II**

**Time: 1 hour 50 minutes    Marks: 25**

**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 SEVEN questions. Answer ALL questions. Questions 6 & 7 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 2 Marks)

i. How many significant figures are there in 0.0102030? (1 Mark)

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ii. List the rules of significant figures applied on the number given part (i). (1 Mark)

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Q.2. (Total 3 Marks)

Describe the THREE states of equilibrium on the basis of centre of gravity.

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Q.3. (Total 2 Marks)

The orbits of comets are large and elliptical as compared to the orbits of planets which are smaller and circular.

Describe the difference in the shapes of orbits with the help of TWO reasons.

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Q.4.

(Total 3 Marks)

Write any THREE differences between evaporation and boiling.

S. No.	Evaporation	Boiling
1		
2		
3		

Q.5.

(Total 3 Marks)

A copper rod is 20 m long with the cross-sectional area of  $4 \text{ m}^2$ . If its two ends are kept at temperatures  $200^\circ\text{C}$  and  $300^\circ\text{C}$  respectively, calculate the amount of heat flowing across the rod in one second.

(Note: Take the co-efficient of thermal conductivity as  $386.4 \text{ J/m.K.s.}$ )

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Please use this page for rough work

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