

AGA KHAN UNIVERSITY EXAMINATION BOARD

SECONDARY SCHOOL CERTIFICATE

CLASS X EXAMINATION

Physics Paper III Practical

Time: 40 minutes Marks: 10

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**

2. RUBRIC. There are THREE stages. All stages have various tasks. Perform ALL the tasks.
3. You must demonstrate the skills in front of the examiner when required.
4. Respond in EITHER Urdu or English but NOT both.
5. Complete your answer in the allocated space only. DO NOT write outside the box.
6. Use ONLY black pen or pencil. DO NOT use coloured pencils.
7. DO NOT use staples, paper clips, glue, correcting fluid or ink erasers.
8. The marks for the tasks are shown in brackets ().
9. You may use a simple calculator if you wish.

Practical

Objective: To verify the truth tables of **OR** and **AND** gates.

مقصد: **OR** اور **AND** گیٹس کی جدولوں کی سچائی کی تصدیق کرنا۔

STAGE I

(Total 2 Marks)

Task 1

Collect the apparatus and other materials required to meet the objective and list them.

اس تجربے سے مطلوبہ مقصد حاصل کرنے کے لیے مطلوبہ آلات اور دیگر اشیاء جمع کیجیے اور ان کے نام لکھیے۔

STAGE II

(Total 4 Marks)

Task 2

Draw a circuit diagram of **OR** and **AND** gates.

OR اور **AND** گیٹس کی سرکٹ ڈایا گرام بنائیے۔

(OR Gate) (OR گیٹ)

(AND Gate) (AND گیٹ)

STAGE III

(Total 2 Marks)

Task 3

(1 Mark)

Verify the truth table of **OR** gate.

OR گیٹ کے جدول کی سچائی کی تصدیق کیجیے۔

Task 4

(1 Mark)

Verify the truth table of **AND** gate.

AND گیٹ کے جدول کی سچائی کی تصدیق کیجیے۔

A	B	A AND B
0	0	
0	1	
1	0	
1	1	

School Record

(Total 2 Marks)