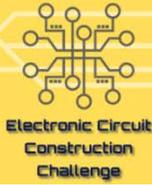


初級組  
Junior Division  
(P4-6)



# 電子線路挑戰賽 2026

Electronic Circuit Construction Challenge 2026

## 報名表格 (Application Form)



香港科技大學  
THE HONG KONG  
UNIVERSITY OF SCIENCE  
AND TECHNOLOGY



Advancing Technology  
for Humanity



IEEE Hong Kong ED/SSC Joint Chapter

### 報名流程 Application Process



#### 參賽者資料 (Personal Information of Applicant)

姓名: \_\_\_\_\_ (中文) \_\_\_\_\_ (English) 性別: 男  女   
Name: \_\_\_\_\_ (English) Gender: M  F

出生日期: \_\_\_\_\_ 級別: \_\_\_\_\_ 學校: \_\_\_\_\_  
Date of Birth: \_\_\_\_\_ Grade: \_\_\_\_\_ School: \_\_\_\_\_

地址: \_\_\_\_\_  
Address: \_\_\_\_\_

電話: \_\_\_\_\_ 電郵地址: \_\_\_\_\_  
Contact Phone: \_\_\_\_\_ Email: \_\_\_\_\_

你是否參加 3 月 21 日 (星期六, 上午 9 時 45 分 至 下午 5 時正) 在科大舉辦的工作坊嗎? (自由參與) 是  否   
Will you be joining the workshop on March 21 (Sat, 9:45 am - 5:00 pm) at HKUST? (Optional) Yes  No

如果你通過學校申請, 請留下負責老師的聯絡資料

If you apply through your school, please write down the following contact information about your teacher-in-charge.

老師姓名 老師聯絡電話  
Name of the teacher: \_\_\_\_\_ Teacher's contact number: \_\_\_\_\_

老師電郵地址  
Teacher's email address: \_\_\_\_\_

## 選拔題 (Selection Questions)

選拔題有 6 條, 你的答案會決定參賽資格

There are 6 selection questions. Your qualification status will be determined by your answers to these questions.

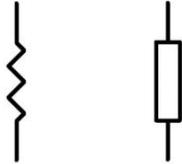
從 Q1 至 Q4, 請勾選正確答案。

For Q1 to Q4, please tick the box with the correct answer.

### Q1

這個符號代表什麼?

What does this symbol represent?

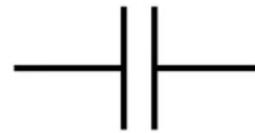


- a) 電阻 Resistor
- b) 電池 Battery
- c) 電晶體 Transistor

### Q2

這個符號代表什麼?

What does this symbol represent?



- a) 電池 Battery
- b) 電容器 Capacitor
- c) 開關制 Switch




### Q3

當提供的電壓固定時, 增加電阻值將導致...

When voltage supplied is fixed, increasing the resistance will result in ...

- a) 電流增加 An increase in the current
- b) 電流減少 A decrease in the current
- c) 電流不變 No change in the current

### Q4

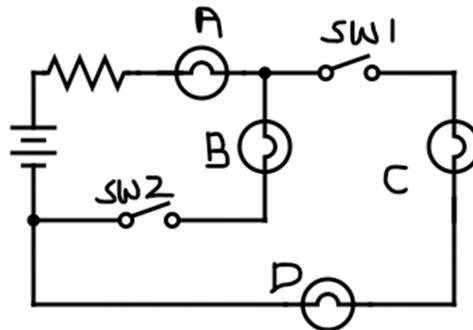
三個1.5V電池串聯, 總電壓是多少?

If three 1.5V batteries are connected in series, what is the total voltage?

- a) 6.5 V
- b) 5.5 V
- c) 4.5 V

### Q5

請看下面的電路圖: Please look at the circuit diagram below:



參考上面的電路圖, 當滿足下列條件時, 哪個/些燈泡 (A, B, C, D) 會亮起? 請勾選所有正確答案。

By referring to the circuit diagram above, which of the light bulbs (A, B, C, D) will be turned ON when the following conditions are met? Please tick all the boxes with the correct answer.

條件 Condition	A	B	C	D
開關制 1 斷開; 開關制 2 閉合 SW1 is open; SW2 is closed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
開關制 1 閉合; 開關制 2 斷開 SW1 is closed; SW2 is open	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
燈泡 C 燒壞, 開關制 1 & 2 閉合 Bulb C blows out; SW1 & SW2 are closed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 選拔題 (Selection Questions)

### Q6

請回答以下三個問題之一：

您可以使用文字（100 到 150 字）和/或插圖來作答。可使用中文或英文淺述。

Please answer one of the three questions below:

You may use text (100 to 150 words) and/or illustrations to explain your ideas. Your writing can be in Chinese or English.

1) 你會如何利用現有的人工智能工具來設計一張明信片以宣傳這場比賽?

# 提示: - 有甚麼人工智能工具可以運用 - 解釋會如何利用這些工具來設計明信片

How would you design a postcard using existing artificial intelligence tools, to promote this competition?

# Hints: - Identify what artificial intelligence tools that you can use

- Explain how you would use such tools to achieve this goal

2) 你會如何利用自己所知道的電子線路知識來改善本地社會?

# 提示: - 現時本地社會缺乏什麼 - 可以如何運用電子線路知識來改善

How would you use your knowledge of electronic circuit to improve your local community?

# Hints: - Identify what your local community is lacking

- Propose how electronic circuits can be part of the solution

3) 你認為人工智能在未來會怎樣幫助到電子工程師?

# 提示: - 電子工程師的工作是什麼 - 他們可以使用哪些人工智能工具幫助自己日常工作

How do you think artificial intelligence can help electronic engineers in the future?

# Hints: - Identify the typical roles that electronic engineers are taking on now

- Identify what artificial intelligence tools that they can use

我的答案:

My answer:

## 家長同意書 (Parent's Consent)

家長/監護人姓名  
Name of Parent / Guardian: \_\_\_\_\_

與參加者關係:  
Relationship with Applicant: \_\_\_\_\_

緊急聯絡電話:  
Emergency Contact : \_\_\_\_\_

- 本人同意子女參加是次活動，並確認其健康狀況良好。  
I agree to let my child participate in the activity and confirm that he/she is in good health.
- 本人明白並同意在是次活動期間所拍攝的照片和視頻將用於 IEEE 及香港科技大學未來活動的推廣材料。  
We understand and agree that photos and video images taken during activities and programs will be used for promoting or organizing activities of IEEE and HKUST.

家長簽署:  
Parent's Signature : \_\_\_\_\_

日期:  
Date: \_\_\_\_\_

[End 完]