



**FINAL EXAMINATION**  
**MARCH 2024**

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<b>COURSE TITLE</b>	<b>SCIENCE AND TECHNOLOGY IN EARLY CHILDHOOD EDUCATION</b>
<b>COURSE CODE</b>	<b>ECLE2233</b>
<b>DATE/DAY</b>	<b>26 JUNE 2024 / WEDNESDAY</b>
<b>TIME/DURATION</b>	<b>09:00 AM - 11:00 AM / 02 Hour(s) 00 Minute(s)</b>

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**INSTRUCTIONS TO CANDIDATES:**

1. Please read the instruction under each section carefully.
2. Candidates are reminded not to bring into examination hall/room any form of written materials or electronic gadget except for stationery that is permitted by the Invigilator.
3. Students who are caught breaching the Examination Rules and Regulation will be charged with an academic dishonesty and if found guilty of the offence, the maximum penalty is expulsion from the University.

(This Question Paper consists of 4 Printed Pages including front page)

**\*\*\*DO NOT OPEN THE QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO\*\*\***

This question paper consists of THREE (3) questions. Answer ALL questions in the answer booklet provided. [50 MARKS]

Terdapat TIGA (3) soalan di dalam kertas peperiksaan ini. Sila jawab SEMUA soalan dalam buku jawapan yang disediakan. [50 MARKAH]

QUESTION 1

(20 Marks)

This question is based on the picture shown below:



Picture 1: STEM Activity

- a) Choose ONE (1) activity related to Earth Day STEM activity. Elaborate ways to implement it. Include all the items below:
- i) Introduction of the lesson (4 marks)
  - ii) Steps of implementing the lesson (8 marks)
  - iii) Conclusion for the lesson (4 marks)
- b) List out FOUR (4) objectives of this lesson. (4 marks)

SOALAN 1

(20 Markah)

Soalan ini adalah berdasarkan gambar di bawah:



Gambar 1: Aktiviti STEM

- a) Pilih **SATU (1)** aktiviti yang berkaitan dengan aktiviti STEM yang bertemakan Hari Bumi. Huraikan cara-cara untuk melaksanakannya. Sertakan semua perkara di bawah:
- i) Pendahuluan kepada pengajaran (4 markah)
  - ii) Langkah-langkah di dalam pengajaran (8 markah)
  - iii) Penutup kepada pengajaran (4 markah)
- b) Senaraikan **EMPAT (4)** objektif pembelajaran ini. (4 markah)

**QUESTION 2**

**(20 Marks)**



**Picture 2: Exploring Gravity Activity**

- a) Define the gravity exploration activity with appropriate examples. (4 marks)
- b) Refer to picture 2, and provide **FIVE (5)** questions you could ask about this gravity activity for young children. (5 marks)
- c) Briefly define **FIVE (5)** vocabulary words that you can use to describe the activity. (5 marks)
- d) Briefly discuss **THREE (3)** teacher roles in planning this activity in the classroom. (6 marks)

**SOALAN 2**

**(20 Markah)**



**Gambar 2: Eplorasi Aktiviti Graviti**

- a) Terangkan maksud pembelajaran berasaskan inkuiri bersama contoh yang sesuai. (6 markah)
- b) Rujuk gambar 2, sediakan **LIMA (5)** faedah aktiviti pembelajaran berasaskan inkuiri ini untuk kanak-kanak. (10 markah)
- c) Bincangkan secara ringkas **DUA (2)** peranan guru dalam merancang pembelajaran ini di dalam kelas (4 markah)

**QUESTION 3**

**(10 Marks)**

Explain **FIVE (5)** examples of how to use play pedagogy in early years science education for young children. (10 marks)

**SOALAN 3**

**(10 Markah)**

Terangkan **LIMA (5)** contoh cara menggunakan pedagogi bermain dalam pendidikan sains awal untuk kanak-kanak. (10 markah)

\*\*\* END OF QUESTION PAPER \*\*\*