



FINAL EXAMINATION
NOVEMBER 2023

COURSE TITLE	SCIENCE AND TECHNOLOGY IN EARLY CHILDHOOD EDUCATION (DIPLOMA)
COURSE CODE	ECLE1213
DATE/DAY	19 FEBRUARY 2024 / MONDAY
TIME/DURATION	09:00 AM - 11:00 AM / 02 Hour(s) 00 Minute(s)

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 3 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 **(26 Marks)**

An inquiry approach is the most current approach to science and refers to children's investigation to answer their questions.

- a) Elaborate on **FIVE (5)** inquiry approach activities the teacher can implement to teach Science and Technology to 5-year-old children. **(10 marks)**
- b) Provide **FIVE (5)** props for the teacher in the activity she plans for Question 1(a). **(10 marks)**
- c) Briefly discuss **THREE (3)** criteria in selecting materials for Question 1(b). **(6 marks)**

SOALAN 1 **(26 Markah)**

Pendekatan inkuiri ialah pendekatan sains terkini yang merujuk kepada penyiasatan kanak-kanak untuk menjawab persoalan mereka.

- a) Huraikan **LIMA (5)** aktiviti pendekatan inkuiri yang boleh dilaksanakan oleh guru untuk mengajar Sains dan Teknologi kepada kanak-kanak berumur 5 tahun. **(10 markah)**
- b) Sediakan **LIMA (5)** alat bahan untuk guru dalam aktiviti yang di rancang bagi Soalan 1(a). **(10 markah)**
- c) Bincangkan secara ringkas **TIGA (3)** kriteria dalam memilih bahan untuk Soalan 1(b) **(6 markah)**

QUESTION 2 **(24 Marks)**

Cognitive processes demand that children learn from adults and develop their way of understanding the world.

- a) List **FOUR (4)** Piaget's cognitive stages of development. **(4 marks)**
- b) Explain **FOUR (4)** factors that influence the cognitive development of children in Science and Technology activity. **(10 marks)**

SOALAN 2

(24 Markah)

Proses kognitif menuntut kanak-kanak belajar daripada orang dewasa dan mengembangkan cara mereka memahami dunia.

- a) Senaraikan **EMPAT (4)** peringkat perkembangan kognitif Piaget. (4 markah)
- b) Terangkan **EMPAT (4)** faktor yang mempengaruhi perkembangan kognitif kanak-kanak dalam aktiviti Science dan Teknologi. (10 markah)

QUESTION 3

(10 Marks)

Explain **FIVE (5)** importance of interdisciplinary integration in teaching Science and Technology.

SOALAN 3

(10 Markah)

Terangkan **LIMA (5)** kepentingan integrasi antara disiplin dalam pengajaran Sains dan Teknologi.

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*** END OF QUESTION PAPER ***
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