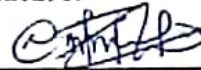


MARCH 2021
EBS 109J
FUNDAMENTALS OF IT EDUCATION
1 HOUR 30 MINUTES

Candidate's Index Number:

ABCE / JHS / 20 / 0170

Signature:



UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
FIRST YEAR, END-OF-FIRST SEMESTER EXAMINATION, MARCH, 2021

MARCH 30, 2021

FUNDAMENTALS OF IT EDUCATION

9:30 AM – 11:00 AM

SECTION B
[40 marks]

Answer any TWO Questions from this section.

1.
 - a.
 - i. Explain the term *Parity bit*. [2 Marks]
 - ii. What role does parity bit play in data transmission? [2 Marks]
 - b. How many bits will occupy a floppy disk? [4 Marks]
 - c. A character is represented on the computer as 10111011. What is its decimal equivalent? (Hint: Convert to base 10) [12 Marks]

2.
 - a. What is a System Unit? [2 Marks]
 - b. State one function of each of the following parts of the system unit:
 - i. Power supply [2 Marks]
 - ii. Heat sink [2 Marks]
 - iii. CPU [2 Marks]
 - iv. Hard disk drive [2 Marks]
 - v. Fan [2 Marks]
 - vi. RAM [2 Marks]
 - vii. Motherboard [2 Marks]
 - viii. DVD drive [2 Marks]
 - ix. Expansion slot [2 Marks]

- 3.
- a. What do you understand by the term *technology integration*? [4 Marks]
 - b. State and explain four barriers to technology integration [8 Marks]
 - c.
 - i. Explain the term *computer graphics*. Give any three examples. [5 Marks]
 - ii. Outline any three uses of *text* in a multimedia application. [3 Marks]