

BOWEN UNIVERSITY, IWO
FACULTY OF SCIENCE AND SCIENCE EDUCATION
DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY
B.Sc. DEGREE FIRST SEMESTER EXAMINATION 2015/2016 SESSION

COURSE CODE: CIT 114

COURSE TITLE: INTRODUCTION TO COMPUTER SCIENCE

COURSE CREDIT: 2

DATE: 02/02/2016

TIME: 2 HOURS

INSTRUCTION: Answer any three questions in section A and all questions in section B.

SECTION A

QUESTION 1

- (a) Explain your understanding of the term 'Application software'. Explain any other category of software you know. 8marks
- (b) Briefly describe any five (5) types of software. 10marks
- (c) Explain the difference between Primary Storage and Secondary storage. Give two examples of each 7marks

QUESTION 2

- (a) Computer technology has overshadowed any previous technology's impact. Discuss. 10marks
- (b) How has computer technology transform our everyday life in Nigeria. Give two examples and explain. 9marks
- (c) What's an algorithm, why might one be preferred to another if they solve the same problem? 6marks

QUESTION 3

- (a) Explain the term 'ASCII'. What is its relevance in computer science? 5marks
- (b) Briefly describe the sequence of actions from when a key is pressed and when it is display on the screen 5marks
- (c) Express the decimal digits 11 to 19 in BCD form. 5marks
- (d) Convert the following characters to their decimal form and equivalent BCD:
D, F, I, J, U. (HINT: A= decimal 65; C= decimal 67)
10marks

QUESTION 4

- (a) Classify computers based on type of signal. 6marks
- (b) Distinguish between Batch Processing Operating System and Real Time Operating 4marks
- (c) Explain the following data processing methods stating two disadvantages each.
i. Manual method ii. Mechanical method iii. Electronic method 9marks
- (d) Write short notes on the following: i. Special Purpose Computer ii. General Purpose Computer 6marks

QUESTION 5

- (a) Discuss four advantages and four disadvantages of the internet. 8marks
- (b) Explain the following terminologies: i. Computer Worm ii. Computer Virus. 3marks
- (c) i. Discuss four things that can help to confirm the existence of a virus in the computer. 8marks
ii. Mention four sources of contamination of virus that you know. 8marks
- (d) Discuss four ways by which you can prevent virus attack in the students' computer laboratory 6marks

SECTION B

1. The computer system is made up of _____ and _____
2. The brain of the computer is called the _____ while the main box that houses the internal hardware is called _____.
3. _____ is the output of a compiler after it processes the source code.
4. DEC is an acronym for _____
5. What is the equivalent of 4 bytes in bits _____
6. _____ and _____ are examples of mini computers.
7. The suites of languages that translate other languages to machine language are called _____
8. Utility software performs _____, _____ and _____ operations.
9. The third and fourth second generation of computers is characterised majorly by the use of _____ and _____.
10. What is the full meaning of ENIAC _____
11. _____ is a special purpose memory that is used for storing programs permanently and it is a non-volatile memory.
12. The Central Processing Unit is made up of _____, _____ and _____
13. _____ is a program that acts as an interface between a user of a computer and the computer hardware.
14. _____, _____, _____ and _____ are the stages in compilation of computer program.