JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

**SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
DEPARTMENT OF INFORMATION SYSTEMS AND TECHNOLOGY**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF EDUCATION ARTS
SCHOOL BASED**

**4ND YEAR 1ST SEMESTER
AUGUST/DECEMBER 2021/2022
ACADEMIC YEAR
MAIN CAMPUS**

COURSE CODE: ITB 9408

COURSE TITLE: IT AND SOCIETY

EXAM VENUE: STREAM

DATE: EXAM SESSION

TIME: 3HOURS

INSTRUCTIONS
1. Answer question **ONE (compulsory)** and any other **Two** questions.
2. Candidates are advised not to write on the question paper
3. Candidates must hand in their answer booklet to the invigilator while in the examination room
4. This paper consists **of three** printed papers

QUESTION ONE (30 MARKS)

a) Define the following terms:
- (i)   Privacy   (2mks)
- (ii) Cookies   (2mks)
- (iii) Spyware   (2mks)

b) Explain **two** uses of cookies in a web browser.   (4mks)

c) State the differences between **data** and **information**.   (3mks)

d) Write ICT in full   (3mks)

e) With reference to IT and society, explain the difference between communication and Technology.   (4mks)

f) Match the following generations of computers with the technology used to develop them: (4mks)
- (i)   First generation   :   Very large scale Integrate circuits
- (ii) Second generation   :   Thermionic valves (Vacuum tables)
- (iii) Third generation   :   Transistors
- (iv) Fourth generation   :   Integrated circuits

g) State **three** examples of data.   (3mks)

QUESTION TWO (20MARKS)

a) Explain how ICT are used in the following areas:
- (i)   Education   (4mks)
- (ii) Banking   (4mks)
- (iii) Ecommerce   (4mks)

b) Explain **four** effects of ICT in a society   (8mks)

QUESTION THREE (20MARKS)

a)   Differentiate between laws and Ethics   (4mks)

b)   Way do we need ethics and law in computing? Explain **three** reasons.   (6mks)

c)   Give **four** guidelines in the email and internet usage.   (4mks)

d)   Define computer crime.   (2mks)

e)   Highlight **four** natural and environmental threats to computer.   (4mks)

QUESTION FOUR (20MARKS)

a) Define intellectual property rights   (2mks)

b) Highlight how Business owners safeguard their intellectual property rights   (6mks)

c) Define the following terms used in security of data and information:
- (i)   Authentication.   (2mks)
- (ii) Verification   (2mks)
- (iii) Pornography.   (2mks)

d) Briefly explain **three** Biometric authentication devices used in computing.   (6mks)

QUESTION FIVE (20MARKS)

a) Define internet filtration. (2mks)

b) Briefly explain cyber law acts in Malaysia. (4mks)

c) Give any three examples of computer security. (3mks)

d) Differentiate between a worm and a virus. (4mks)

e) Explain **two** ways of controlling a virus in a computer system. (4mks)

f) Define the following term
   (i)   Firewall (1mk)
   (ii) Cryptography (2mks)