



MACHAKOS UNIVERSITY

University Examinations for 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE (STATISTICS AND PROGRAMMING)

SCS 209: INTERNET TECHNOLOGIES

DATE: 22/7/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer **question ONE** and any other **TWO** questions.

QUESTION ONE

- a) Write a simple program in HTML and explain the purposes of each tag (4 marks)
- b) Differentiate between a meta search engine and a regular search engine. (4 marks)
- c) Briefly explain at least three effective methods of conducting internet research.(3 marks)
- d) Briefly describe how the following internet services work:
 - i). Web browsers
 - ii). World Wide Web
- e) What is the Internet? (2 marks)
- f) List FIVE services offered on the Internet. (5 marks)
- g) What is the World Wide Web? (3 marks)
- h) Discuss why the World Wide Web is considered one of most important inventions in Internet technology. (4 marks)
- i) What is Internet Protocol? (3 marks)
- j) What is the difference between Instant Messaging and E-mail? (3 marks)

QUESTION TWO

- a) Explain the role of a router in the management of Internet traffic. (3 marks)
- b) What is the significance of the Data Link Layer of the OSI model? (3 Marks)

- c) The Internet has given rise to what is being called 'social media'. Some critics argue that social media promotes a high degree of individualism and social alienation. Present a strong argument showing the validity or invalidity of this claim. (6 marks)
- d) Describe at least four technologies that can be used to access the internet. . (8 marks)

QUESTION THREE

- a) The Internet has greatly contributed to moral degradation in Kenya as well as globally. Discuss all the implications of this statement. (6 marks)
- b) Briefly explain at least three effective methods of conducting internet research. (6 marks)
- c) Discuss why Instant Messaging is gaining popularity with professionals in the corporate world as a means of business communication. (8 marks)

QUESTION FOUR

- a) The Internet has improved political inclusion and participation in Kenya. Discuss all the implications of this statement. (10 marks)
- b) List and explain the basic requirements to able to access the Internet (4 Marks)
- c) Assume you work for an organization and you have charged with the responsibility of selecting an ISP (Internet service Provider) for your organization. Briefly explain the factors that you would consider to guide you into selecting an appropriate Internet service provider for the organization? (6 Marks)

QUESTION FIVE

- a) What is Internet security and why it is important? (2 Marks)
- b) What is a search engine and how does it work? (2 Marks)
- c) Lists three protocols that use UDP? (4 Marks)
- d) The Internet has the potential to provide many benefits to companies in terms of communication.
- e) Describe FOUR processes that a business may carry out using the Internet explaining the application
- f) Involved and the benefit to the company. Outline any drawbacks involved in each process. (8 marks)
- g) List and explain the basic requirements to able to access the Internet (4 Marks)