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(KNOWLEDGE FOR DEVELOPMENT)

**KIBABII UNIVERSITY
(KIBU)**

**UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS
SECOND YEAR SECOND SEMESTER**

**FOR MASTER OF SCIENCE IN
INFORMATION TECHNOLOGY**

COURSE CODE: MIT 842E

**COURSE TITLE: WEB TECHNOLOGIES AND
APPLICATIONS**

DATE: 13/08/2018

TIME: 10A.M-12NOON

INSTRUCTIONS

ANSWER QUESTIONS ONE AND ANY OTHER TWO

SECTION A (COMPULSARY 20 MARKS)

QUESTION ONE (20 MARKS)

- a) List and explain web technologies 4mks
- b) What is a servlet? Why are servlets used? 6mks
- c) Outline the values used to comprehend a noble e-commerce? 6mks
- d) Representational State Transfer (REST) is the underlying architectural model, guiding the design and development of the current and next generation web architectures. What does its set of architectural constraints emphasize? 4mks

Section B Attempt any TWO questions

QUESTION TWO (20 MARKS)

- a) Describe an Application Program Interface 3mks
- b) Secure Electronic Transaction protocol (SET) is a common standard that was developed jointly by Visa, MasterCard and other partners to ensure the processing of secure transactions. How is SET Different from Secure Socket Layer (SSL)? Hence what are the Mechanics of SET? 8mks
- c) Outline the types of clients supported by a modern application server 5mks
- d) Explain the web conferencing issues. 4mks

QUESTION THREE (20 MARKS)

- a) Qpass.com is one of the new payment providers. Why didn't the old payment providers work? 6mks
- b) What is SOAP? Explain the three SOAP XML-based messaging framework 12mks
- c) How does Simple Object Access Protocol work 2mks

QUESTION FOUR (20 MARKS)

- a) What are the limitations of Wireless Markup Language? 4mks
- b) Explain what xml is not. 10mks
- c) HTTP (HyperText Transfer Protocol) is a core web technology why? 6mks

QUESTION FIVE (20 MARKS)

- a) What does it mean HTTP is stateless? How can this be fixed? 7mks
- b) Why is XML regarded as a solution to the problems posed by SGML and HTML 7mks
- c) XML is handy for Web development why? 6mks