

UNIVERSITY EXAMINATION 2017/2018
YEAR II SEMESTER II EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN INFORMATION TECHNOLOGY / ENTREPRENEURSHIP

BIT 2119 /HEE 2339: MANAGEMENT INFORMATION SYSTEM

Instructions

Attempt question ONE and ANY OTHER TWO Questions

QUESTION ONE (30 MARKS)

- a) Define the term information system (2mks)
- b) List four properties of a System (4mks)
- c) Distinguish between
 - i. Adaptive and non-adaptive system (2mks)
 - ii. Closed and open system (2mks)
 - iii. System analysis and system design (2mks)
- d) Highlight three categories of information used in organization (3mks)
- e) Explain four opportunities brought about by Information system (4mks)
- f) Using an illustration explain the phases/stages in System development life cycle (5mks)
- g) Kirinyaga University is planning to purchase a high-end examination photocopy. Machine Costing kshs 50,000 and would have a useful life of 20 years with zero salvage value. The expected annual cash inflow of the machine is kshs 10,000.

Required:

- i. Compute payback period of the machine (4mks)
- ii. Advise the university management whether to purchase the machine or not if the Maximum desired payback period 6 .5 years. (2mks)

QUESTION TWO (20 MARKS)

- a) State four techniques used in evaluating information systems projects (4mks)
- b) Explain three Technology Drivers of Infrastructure Evolution (6mks)
- c) Describe five strategic roles of information (10 mks)

QUESTION THREE (20 MARKS)

- a) Describe any four Characteristics of Transaction Processing Systems (TPS) (8mks)
- b) Describe the following hardware trends (8mks)
 - i. Consumerization of IT
 - ii. Virtualization
 - iii. Cloud computing
 - iv. Green computing
- c) Highlight four challenges of managing Information Technology infrastructure (4mks)

QUESTION FOUR (20 marks)

- a) Define information System Controls (2mks)
- b) Describe the following Information System controls (8mks)
 - i. Input controls
 - ii. Processing controls.
 - iii. Database controls
 - iv. Telecommunication controls
- c) Explain five causes of information system failures (5mks)
- d) Explain five circumstances where interview method will be adopted for fact finding in system development (5mks)

QUESTION FIVE (20 MARKS)

- a) Discuss four features to consider in evaluating Transaction Processing Systems. (4mks)
- b) Describe five Information Systems infrastructure components (10mks)
- c) Explain any three system maintenance techniques (6mks)