

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF BUILDING AND CIVIL ENGINEERING UNIVERSITY EXAMINATION FOR:

BSC IN CIVIL ENGINEERING

HRD 2315 : ECONOMICS FOR CIVIL ENGINEERS

END OF SEMESTER EXAMINATION

SERIES:APRIL2016

TIME:2HOURS

DATE:10May2016

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, Drawing Instruments, Scientific calculator, examination pass and student ID This paper consists of five questions.

Attemptquestion ONE (Compulsory) and any other TWO questions.

Question one

- a) Outline the functions of the resident civil engineer. (6marks)
- b) The structural engineer is in charge of ensuring the structural stability of the building structure. Discuss what this entails. (8marks)
- c) Outline the main components of a feasibility study (8marks)
- d) Discuss the main marketing activities a construction firm should be engaged in to ensure that they sustain themselves in the volatile and competitive construction industry. (8marks)

Question two

- a) Discuss the following, as pertains initial public offer;
- i) Issuing house,
- ii) Underwriting,
- iii) Prospectus. (6marks)
- b) Outline the following methods of making new issues to the public;
- i) Offer for sale,
- ii) Issue by tender,
- iii) Placings. 6marks)
- c) Explain what a debenture is , and outline the following;
- i) Debenture trust deed,
- ii) Mortgage debentures,
- iii) Simple or naked debentures. (8marks)

Question three

With the aid of hypothetical examples outline the following financial appraisal techniques;

- i) Pay back period.
- ii) Accounting rate of return,
- iii) Discounted cash flow. (20 marks)

Question four

- a) Explain the following advertising techniques;
- i) Persuasive,
- ii) Informative (5marks)
- b) Discuss the functions of a wholesaler in the distribution chain, and state the principles which enhance their effectiveness. (6marks)
- c) Discuss the importance of the following aspects in marketing;
- i) Sales price,
- ii) Market segmentation,
- iii) New product development. (9marks)

Question five

- a) Explain the following terms as used in organization structures;
- i) Bureaucracy,
- ii) Power, authority and responsibility,
- iii) Span of control.

b)	Explain the principles of line and staff organizations, and outline a typical line and staff
	organization chart, for a construction firm, with an annual turnover of sh760m, and an
	establishment of 180 employees.
