



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT BUILDING AND CIVIL ENGINEERING

UNIVERSITY EXAMINATION FOR:

BSC IN CIVIL ENGINEERING

HRD 2315: ECONOMICS FOR CIVIL ENGINEERS

END OF SEMESTER EXAMINATION

SERIES: APRIL 2016

TIME: 2 HOURS

DATE: 10 May 2016

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. Attempt question ONE (Compulsory) and any other TWO questions.

QUESTION ONE compulsory

- a) Outline the functions of the following parties in construction;
 - i) The local authority, as mandated through the building code and the local authorities act.
 - ii) The civil engineer,
 - iii) The ministry of works, National environment management authority (NEMA), National construction authority (NCA) (16 marks)
- b) Outline the application of approximate estimating techniques, giving one hypothetical example. (6marks)
- c) With the aid of hypothetical figures draw up an interim certification process for a multi-storey project, at a cost of ksh. 450m. In your example show the final account. (8marks)

QUESTION TWO,

Explain the following terms and relationships as applied in organization structures;

- i) Organizing and coordinating
- ii) Authority and power
- iii) Bureaucracy
- iv) Formal and informal organizations
- v) Span of control,
- vi) Line and staff. 20 marks)

QUESTION THREE

- a) Discuss the merits and demerits of organization charts. (6 marks)
- b) i) Explain the inherent principles in matrix design and discuss its probable merits and draw backs.
ii) Draw a matrix organization structure for a well established construction firm having an annual turnover of ksh. 900m and running three key projects each of a contract sum of ksh. 360.

QUESTION FOUR

- a) Outline the functions of stockbrokers, in shares trading. (4 marks)
- b) Explain the following classes of shares;
 - i) Founders ordinary shares,
 - ii) Ordinary shares,
 - iii) Preference shares,
 - iv) Preference participating shares,
 - v) Preference cumulative shares,
 - vi) Redeemable and irredeemable shares, (12 marks)
- c) Explain the following terms as applied in new shares issue;
 - i) Underwriting
 - ii) Prospectus. (4 marks)

QUESTION FIVE

- a) Discuss the scope of economics (6marks)
 - b) Explain the following terms as applied in marketing;
 - i) Market segmentation,
 - ii) Persuasive advertising,
 - iii) Distribution,
 - iv) New product development (8 marks)
 - c) Outline the main stages in feasibility studies. (6marks)
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