



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

UNIVERSITY EXAMINATION FOR:
BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY
(BTTT 11M – J/FT)

EIT 4403: STRUCTURED CABLING

END OF SEMESTER EXAMINATION

SERIES: APRIL 2014

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions.

Attempt question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One (Compulsory)

- a) Describe the evolution of structured cabling. (5 marks)
- b) Describe the function of Transition/Consolidation point in structured cabling. (4 marks)
- c) Explain any FOUR popular categories of UTP cables. (4 marks)
- d) Describe any FIVE advantages of structured cabling. (5 marks)
- e) (i) Define structured cable standards
(ii) Describe the key factors considered in defining cable standards
(iii) Describe the importance of structured cabling standards. (8 marks)

- f) Describe any FOUR factors that make copper conductors, the main medium for electrical cables. **(4 marks)**

Question Two

- a) You have been appointed as a project manager for a structured cabling installation project for a company that wishes to do total overhaul of existing, network infrastructure.
- b) Describe the key steps that you would undertake to ensure that the company is happy with your work. **(20 marks)**

Question Three

- a) You have been appointed to take over from another manager on the final phase of a structured cabling project.
- b) Discuss the tests that you would undertake and any other related issues up to the commissioning of the project. **(20 marks)**

Question Four

- a) The company you are working for has been concerned with security issue for the workers during installations of structured cabling and have asked to be in charge of that section to ensure all safety measures are adhered to: Required:
- b) Describe in details the key areas of security occupational health and safety concerns that you would address. **(20 marks)**

Question Five

There has been concern that the performance of the network cables is below expectation and you have been requested to propose solutions to the problem. Required:

- a) Suggest a number of possible solutions that can lead to improvement of the cable performance. **(10 marks)**
- b) Describe cable containment that one is likely to find in most structured cabling infrastructures. **(10 marks)**