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**TECHNICAL UNIVERSITY OF MOMBASA**  
**FACULTY OF APPLIED AND HEALTH SCIENCES**  
**DEPARTMENT OF PURE & APPLIED SCIENCES**  
**UNIVERSITY EXAMINATION FOR:**  
**BACHOLAR OF TECHNOLOGY (ANALYTICAL CHEMISTRY)**

Type unit code:ACH 4408. COSMETIC ANALYSIS PAPER II

**END OF SEMESTER EXAMINATION**

**SERIES:APRIL2016**

**TIME:2HOURS**

**DATE:**Pick DateSelect MonthPick Year

**Instructions to Candidates**

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

**Do not write on the question paper.**

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**QUESTION ONE.**

- |     |  |        |
|-----|--|--------|
| a). | Define cosmetic.   | 2marks |
| b). | State any six functions of cosmetic.                           | 6marks |
| c). | Outline the function of each of the four types of surfactants. | 4marks |
| d). | Mr K likes to dye his hair. Give reasons.                      | 5marks |

- e). Explain the importance of perfumes in cosmetic. 5marks
- f). Describe the three types of fragrance and how long the scent can persist on the body. 8marks

**QUESTION TWO.**

- a). Explain fine fragrance. 5marks
- b). Discuss regulatory aspects for fragrance ingredients in cations surfactants belonging to alkylpyridium, alkylbenzyltrimethylammonium and trimethylammonium types. 15marks

**QUESTION THREE.**

- a). Discuss perfume in cosmetic products. 12marks
- b). Describes temporary hair-dye products. 8marks.

**QUESTION FOUR.**

- a). Discuss the function of the four types of surfactants. 10marks
- b). Describe eye mascaras and its applications. 10marks

**QUESTION FIVE.**

- a). Give three different types of mascaras. 3marks
- b). Describe the chemicals which makes up semi-permanent hair-dye products. 17marks