

# TECHNICAL UNIVERSITY OF MOMBASA

# FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF PURE & APPLIED SCIENCES UNIVERSITY EXAMINATION FOR:

# DIPLOMA IN ANALYTICAL CHEMISTRY

#### **DAC 15S**

ACH 2105: LABORATORY SAFETY AND ETHICS

## 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  ${\bf FIVE}$  questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

#### **Question ONE**

(a) State four precautions that should be taken against explosions	4 Marks
(b) State five roles of a safety officer in an organization	5 Marks
(c ) State two hazards associated with volatile liquids and three precautions that	
should be taken against these hazards.	5 Marks
(d) List four purposes using dressings on wounds	4 Marks
(e) Distinguish carcinogen from cryogen and give three examples for each	8 Marks
(f) Define the expression fire triangle and state its significance	4 Marks

#### **Question TWO**

(a) State eight factors that influence selection of material for floors of buildings	8 Marks
(b) List seven general precautions that can be taken against chemical hazards.	7 Marks
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#### **Question THREE**

(a) Name three classes of chemical substances that attack glass and give two

examples for each. 9 Marks

(b) Name the four parts covered by the scope of first aid 4 Marks

(c) Define the following

i. Emetic 1 Mark

ii. Antidote 1 Mark

## **Question FOUR**

(a) (i) Draw a labeled diagram of the apparatus used in vacuum filtration 6 Marks

(ii) State the function of each of any five components of this apparatus 5 Marks

(b) Identify two components of the apparatus that are not shown in your diagram 2 Marks

(c) Name two other uses of vacuum 2 Marks

#### **Question FIVE**

(a) List five purposes of using bandages in first aid 5 Marks

(b) Name five liquids / solutions stocked in first aid box and one use for each. 10 Marks