

# FACULTY OF ENGINEERING & TECHNOLOGY DIPLOMA IN BUILDING AND CIVIL ENGINEERING END OF SEMESTER EXAMINATIONS

## MAY 2016

#### ECV 2102: CIVIL ENGINEERING MATERIALS I

Instructions: Answer any **THREE** questions.

Use neat well labelled sketches where required.

## **QUESTION ONE**

a) Differentiate between Thermoplastics and Thermosetting plastics	(6 marks)
b) State THREE uses of plastics in construction works	(3 marks)
c) Outline FIVE principal ingredients of plastics	(5 marks)
d) Outline SIX advantages of plastic as a construction material	(6 marks)

#### **QUESTION TWO**

a)	Outline the classification of rubber and briefly explain its FOUR useful pro-	roperties as a
	construction material	(10 marks)
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b) Outline FOUR main ingredients of paint (4 marks)

c) Explain THREE reasons for applying paint on construction works (6 marks)

# **QUESTION THREE**

a)	Outline FIVE uses of glass in construction works	(5 marks)
b)	Briefly explain the primary constituent materials of glass	(5 marks)
c)	State THREE types of varnishes	(3 marks)
d)	Outline TWO functions of varnishes in construction works	(2 marks)
e)	Outline FIVE paint defects	(5 marks)

### **QUESTION FOUR**

a)	State FIVE types of adnesives used in construction work	(5 marks)
b)	Outline TWO reasons that make gypsum plaster work well as a finishing	g coat

(5 marks)

c) Define the term Cementitious materials and outline TWO examples (5 marks)

d) Outline FIVE uses of Bitumen in construction works

(5 marks)

## **QUESTION FIVE**

a) Outline FIVE properties of materials that determine their suitability in construction works