

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN BUILDING AND CIVIL ENGINEERING

AND

DIPLOMA IN QUANTITY SURVEYING

EBC 2101 : WORKSHOP TECHNOLOGY AND PRACTICE I

SPECIAL SUPPLEMENTARY EXAMINATION

SERIES: AUGUST 2017

TIME: 2 HOURS

DATE: 22 Sep 2017

Instructions to Candidates

You should have the following for this examination -Answer Booklet, examination pass and student ID -Drawing instruments. This paper consists of five questions.

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

Do not write on the question paper.

Question One

You have been recruited as part of the staff in a project that involves the renovation of the TUM sewerage and water system.

- i. State the factors that you would put into consideration in choosing the pipe material to be used (2 marks)
- ii. Discuss the various tools and equipment that will be required for this project (9 marks)

ii		ss the possible hazards that the workers could likely be exposed mentation of the project and necessary PPEs required for the job.	to during the (9 marks)	
Qı	estion Tw	70		
a)	In worksh	in workshop technology and practice what do you understand by the term PPEs (2 marks)		
b)	Discuss any six safety rules and regulations/precautionary measures that should be tak		ld be taken into	
	consideration when in the workshop		(6 marks)	
c)	Briefly di	scuss the first aid procedures for the following		
	i.	Severe bleeding		
	ii.	Burns and scalds		
	iii.	Fractures	(12 marks)	
Οι	estion Th	ree		
-	Discuss the uses of the following common plumbing tools			
	i.	Stock and die		
	ii.	Pipe reamer		
	iii.	Hacksaw		
	iv.	Wheel cutter		
	v.	Vice	(15 marks)	
b)	Discuss the	he importance of manholes in sewerage systems	(5 marks)	
Qı	estion Fo	ur		
a)	Define "fixture" in the plumbing context. (4 mark			
b)	Write short notes on the working and uses of the following fixtures			
	i.	Water closet		
	ii.	Flushing cistern		
	iii.	Bathtub		
	iv.	Bidet	(16 marks)	
Οι	estion Fiv	7 e		
-		Discuss the major functions of pipe fittings (5 marks)		
) With the aid of sketches discuss the following types of pipe fittings			
,	i.	Coupler		
	ii.	Bend		
	iii.	Tee		
	iv.	Reducer tee		
	v.	Hose nipple	(15 marks)	