

TIME: 8.30-10.30 AM

(1 marks)

(1 marks)

(1 marks)

(1 marks)

(1 marks)

(1 mark)

(2 marks)

(6 marks)

(2 marks)

(8 marks)

INSTRUCTIONS;

Answer question ONE and any other TWO questions

C

QUESTION ONE (30 Marks)				
a)	Define the following terms			
	i.	Accuracy		
	ii.	Precision		
	iii.	Template		
	iv.	Taper turning		
b)	What is a file			
	i.	From what materials are files made		
	ii.	What is a single cut file		
c)	Na	me three instruments for measuring angles and state their purposes		
d)	Wh	What is the purpose of a micrometer		
	i.	In the figure of a 0.01 mm micrometer and name the main parts		

ii. What is a cold chisel and why is it so called (3 marks) e) What are the advantages of an expanding reamer (5 marks)

Examination Irregularity is punishable by expulsion

SECTION B:ANSWER ANY TWO QUESTIONS (40 Marks)

QUESTION TWO

a)	What is meant by the term "jigs and fixtures"	(2 marks)
b)	Why is the datum face very important when work is being marked out	(3 marks)
c)	Describe three methods of finding the centre of a round bar of a metal.	(9 marks)

d) State with reasons which of the three methods drscribed is the most accurate (6 marks)

QUESTION THREE

a)	Name three types of hand hammers commonly used in an engineering workshop and state two			
	uses for each	(5marks)		
b)	What are the advantages forging has to offer as compared with machinining	(5 marks)		
c)	What factors decide the temperature at which a metal is to be forged	(6 marks)		
d)	State thepurpose of an anvil	(4marks)		

QUESTION FOUR

a)	What is meant by the term "taper turning"	(2 marks)
b)	Describewhat is meant by the term"yurning between two centres" how how	a taper is turned
	using a form tool	(3 marks)
c)	Describe how to turn a taper using the top or compound slide .	(9 marks)
d)	What is meant by the term "Turning between centres"	(6 marks)

QUESTION FIVE

a)	Name thre instruments for measuring angles	(3 marks)
b)	What is a Vernier bevel protractor and what are its uses	(5 marks)
c)	Draw a protractor reading of 65° , $45'$	(5 marks)
d)	Define the terms	
	i. Tolerance	(4 marks)
	ii. High and low limits	(3 marks)