# **BUNAMFAN CLUSTER EXAMINATION - 2022**

**Kenya Certificate of Secondary Education** 

### **POWER MECHANICS** Paper 2 447/2 -(PRACTICAL)

June 2022 - 2½ hours

	ameAdm No
	Class Date
Ins	Class. Date.  Structions to candidates  This paper consiste of 10 questions named stations.  Answer all questions.  All the questions have equal marks.  Do not spend more than 15 marks per station.  Once you leave a station, you will not be allowed back to the same station.
a)	This paper consiste of 10 questions named stations.
b)	Answer all questions.
c)	All the questions have equal marks.
d)	Do not spend more than 15 marks per station.
e)	Once you leave a station, you will not be allowed back to the same station.

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- Answer all questions.
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- e) Once you leave a station, you will not be allowed back to the same station.
- . Ens This paper consists of 8 printed pages. Ensure that all questions are present.

## **INSTRUCTIONS**

Draw an assembled valve train system.

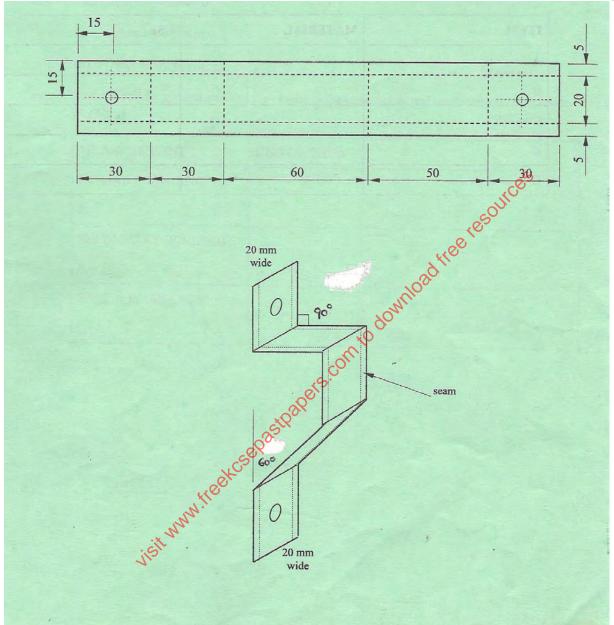
(10mks)

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## INSTRUCTIONS

Using the tools, equipment and materials provided, make the handle as shown in the figure below.

(10mks)



### **INSTRUCTIONS**

Identify the items labeled A to E. State the material each is made of and one use of each part in a motor vehicle (10mks)

ITEM	MATERIAL	USE
A		
В		
С		
D		ęs.
Е		collide

STATION 4

INSTRUCTIONS

Provided on the bench are hand tools used in mechanics. Study them and fill the table below appropriately. (10mks) (10mks)

TOOL	NAME	USE DE'S.		
A		c XO'O'		
В		ucsel <sup>25</sup>		
С		Ko of the state of		
D	hun			
E	visit			
F				
G				
Н				
I				
J				

## INSTRUCTIONS

Using tols and gear oil pump provided, carrry out the following tasks;

- a) Dismantle the pump
- b) Perform neccessary service checks
- c) Assemble the pump

(10mks)

Let the examiner check your work

### **STATION 6**

### **INSTRUCTIONS**

Identify the motor vehicle parts labelled J, K, L, M and N. Name each part, state the vehicle system it belongs to and state its main function in a motor vehicle. (10marks)

			<u> </u>
PART	NAME	VEHICLE SYSTEM	FUNCTION O
			FUNCTION
J		200	Swillog
K		kcsepastoapers.com to do	
L	u ge	Kes Ogst.	
M	JiSit MMW. HOE		
N			

## INSTRUCTIONS

On the single engine provide	d	ŀ,
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a) Remove the exhaust valve.

b) Meas	sure and record the exhaust valve diameter.		
		mm	
c) Nam	e the tool you have used to take the reading.		
	mble back the engine.		(10mks

	examiner check your work.	I. Name and state the function of the parts labeled.	(10mks)		
STATIO	ON 8	e (eso			
INSTRU	UCTIONS	Cad file			
Study th	Study the welding equipment provided. Name and state the function of the parts labeled. (10mks)				
PART	NAME	FUNCTION			
P		oers. Co.			
Q		-085tP81			
R	.084	CS			
S	MANTHE				
T	visit				

## STATION 9 INSTRUCTIONS

a)		ce the following measurements of the marked parts of the camshaft provided. (7mks)  Camlobe height using vernier calipers.	
	ii)	Camlobe diameter using micrometer provided	
	iii)	Journal ovality using dial indicator.	
b)	Sta	te the accuracy of each of the following tools. (3mks)	
	i)	Vernier calipers	
	ii)	Micrometer	
	iii)	te the accuracy of each of the following tools.  Vernier calipers	
ST	ATI	ON 10	
IN	STR	CUCTIONS	
ber	nch.	et correctly the battery ignition circuit, using the components of the ignition system laid on (10mks)  e examiner check your work.	the
		et correctly the battery ignition circuit, using the components of the ignition system laid on (10mks)  e examiner check your work.	