

Name..... Index NoAdm.No

Class.....Candidate's Signature..... Date

447/2

POWER MECHANICS

PRACTICALS

TIME: 2 ½ HRS

KAMDARA JET - 2016

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the spaces provided
2. Sign and write the date of examination in the spaces provided
3. There are 10 stations in this examination
4. At each station, candidates are not allowed to either review the previous station's work or read instructions for the other stations
5. Attempt all exercises in each station
6. All dimensions are in millimeters

FOR EXAMINER'S USE ONLY

STATIONS	1	2	3	4	5	6	7	8	9	10	TOTAL SCORE
CANDIDATE'S SCORE											

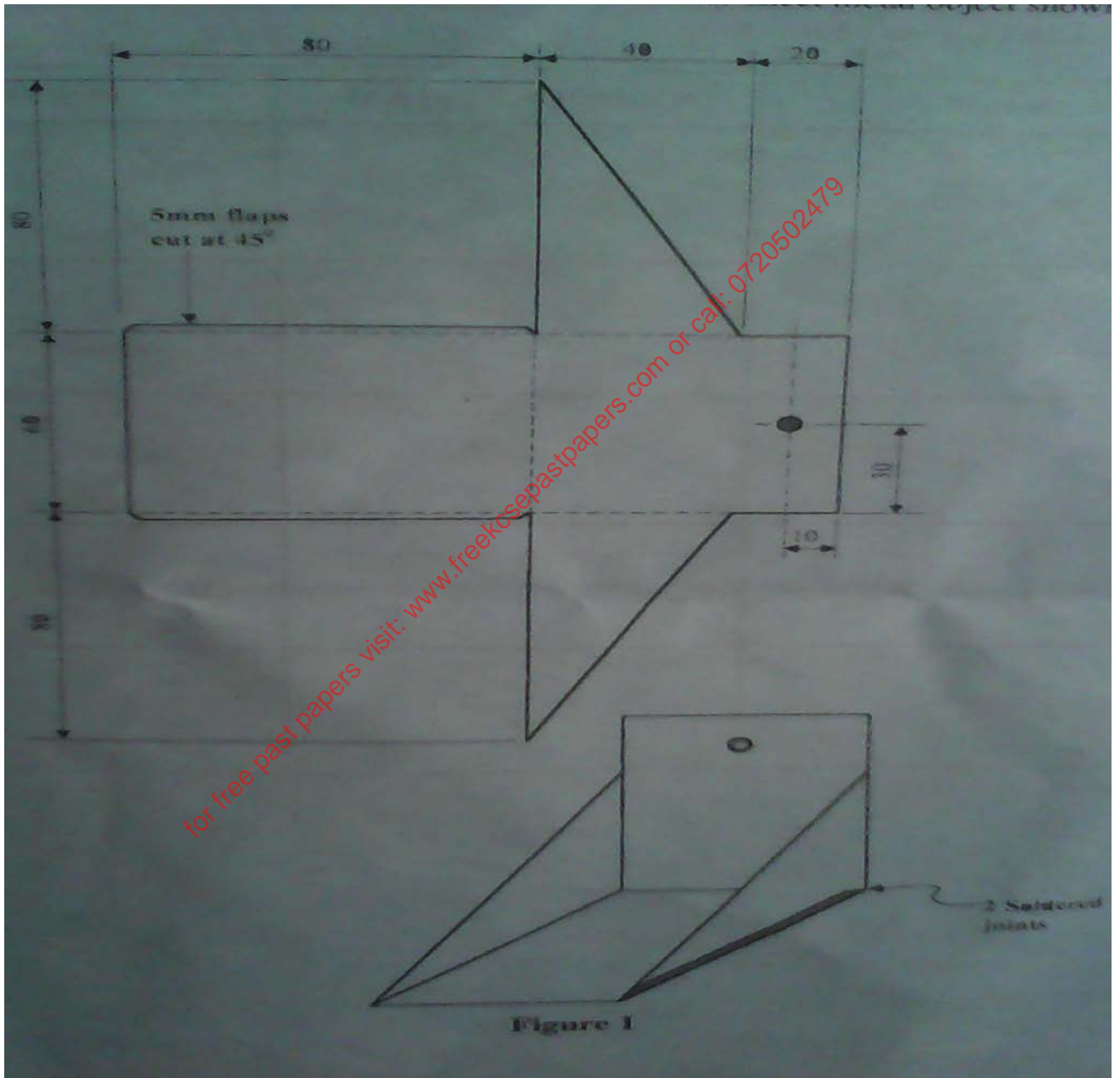
STATION 1

1. In the space provided sketch in good proportion an exploded view of drum brakes slave cylinder.10mks

for free past papers visit: www.freekcsepastpapers.com or call: 0720502479

STATION 2

2. Use the materials, tools and equipment provided to make the sheet metal tray shown below 10mks



for free past papers visit: www.freekcsepastpapers.com or call: 0720502479

STATION 3

3. Identify the substances in the containers labelled A to E and state the use of each in motor vehicle use
(5mks)

Substance	Name	Application
A		
B		
C		
D		
E		

- (b). identify the fasteners F to K
(5mks)

Fastener	Name	Unique feature (application)
F		
G		
H		
J		
K		

for free past papers visit: www.freekcsepastpapers.com or call: 0720502479

STATION 4

4. Identify the motor vehicle parts labelled L,M,N,P,Q,,identify one defect and cause (6mks)

Part	Name	Defect	Cause
L			
M			
N			
P			
Q			

- (ii). Identify materials labelled 6,7,8,9 and state its application and property (4mks)

Material Property	Name	Application
6		
7		
8		
9		

STATION 5

5. Using the starting system components and cables provided, connect up a complete starting circuit. Let examiner inspect your work. (10mks)

STATION 6

6. Examine the tyre provided and complete the table below
- (i) Diameter of the tyre
 - (ii) Type of tyre construction
 - (iii) Width of the tyre
 - (iv) Aspect ratio
 - (v) Load rating
 - (vi) State condition of tyre

(b). Name parts of tyre labelled 1,2,3,4

STATION 7

7. Using measuring tools provided, carry out the following exercises
- (i) Determine maximum compression of engine provided (6mks)
 - (ii) Determine the torque at which the torque wrench gives way (2mks)
 - (iii) Determine the diameter of gudgeon pin (2mks)

STATION 8

8. Using the ignition system parts provided and cables, connect up a complete ignition system
10mks

STATION 9

9. Carry out the overhaul of provided mechanical fuel pump
- (i) Report condition of major parts

 - (ii) Report general condition of pump

10mks

STATION 10

10. Carry out the overhaul of provided oil pump 10mks
- (i) Report condition of each component

- (ii) Test and report condition of the pump

for free past papers visit: www.freekcsepastpapers.com or call: 0720502479