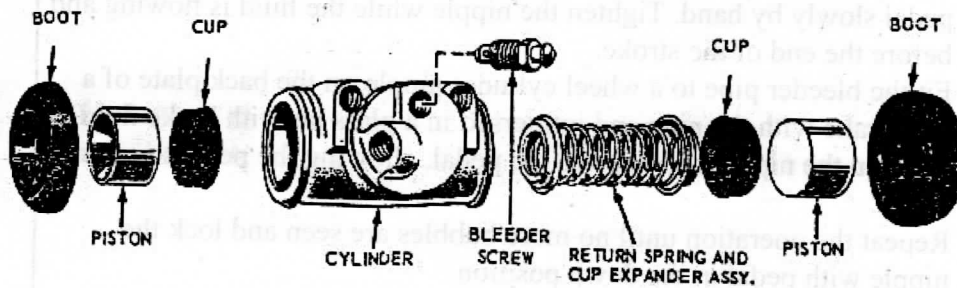


5.5.2 Power Mechanics Paper 2 (447/2)

STATION 1



Correct exploded sketches	$6 \times \frac{1}{2} = 3$	3
Labelling (any $4 \times \frac{1}{2}$)		2
Exploded and correct		2
Pictorial		1
Proportionality		1
Neatness		1
	TOTAL	10 marks

STATION 3

ITEM	NAME	MATERIAL	USE
A	Camshaft	Forged steel	To open and close the valves
B	Carburetor float	Copper or brass	To regulate fuel level in carburetor
C	Tap	Carbon steel or high carbon steel	To cut internal threads of drilled holes.
D	Valve lifter	Cast iron	To lift valve open.
E	Hose clamp	Spring metal	To fasten hoses in the cooling system.
Marks	$5 \times \frac{1}{2} = 2\frac{1}{2}$	$5 \times 1 = 5$	$5 \times \frac{1}{2} = 2\frac{1}{2}$

STATION 6

PART	NAME	VEHICLE SYSTEM	DEFECT	EFFECT
F	Fanbelt	Starting or cooling	Worn, cut	- No charging - Overheating
G	Ball joint	Steering	Worn	- Loose or uncomfortable steering
H	High tension lead	Ignition	Broken insulation and strands	- Voltage leakage
I	Exhaust manifold gasket	Exhaust	Broken	- Leakage of gases
J	Oil seal	Lubrication	Deformed	- Oil leakage
Marks	5 x ½ = 2½	5 x ½ = 2½	5 x ½ = 2½	5 x ½ = 2½

STATION 9

TOOL	NAME	TYPE	SIZE	USE
P	Plier	Slip joint or interlocking	Any, e.g. 4½ - 7½	Used where large plier opening is required.
Q	Screw driver	Offset	Any	Used where clearance of ordinary screwdriver is insufficient.
R	Socket handle	Tee	Any, e.g. 6mm, 10mm	Holds sockets to open nuts in deep positions.
S	Spark plug spanner	spanner	Any	Used for drawing circles.
T	Reamer	Tapered	Any	Used for smothering holes.
Marks	5 x ½ = 2½	5 x ½ = 2½	5 x ½ = 2½	5 x ½ = 2½

Total - 10 marks