

# AMBANG PMR (S1)

- 1 Diagram 1 shows three instruments, J, K and L which are commonly used in the laboratory.  
*Rajah 2 menunjukkan tiga alat, J, K dan L yang biasa digunakan didalam makmal.*

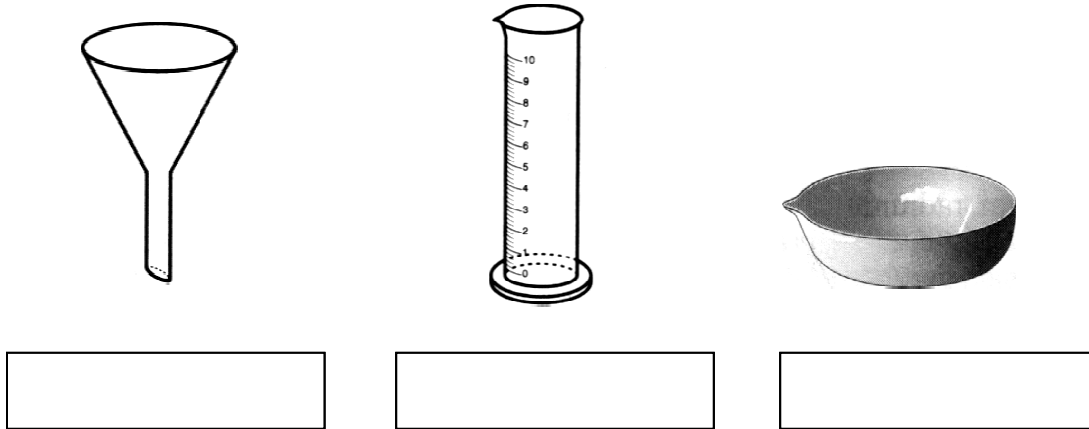


Diagram 1/ Rajah 1

- (a) (i) On Diagram 1, label the apparatus, J, K and L using the following words:  
*Dalam Rajah 1, label alat radas K, K dan L menggunakan perkataan berikut :*

**inel**

[ 3 marks ]

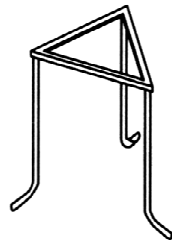
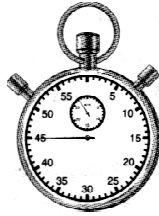
- (ii) Based on your answer in (a) (i), which of the instruments is used to measure the volume of a liquid?  
*Berdasarkan jawapan anda di (a) (i), alat yang manakah digunakan untuk mengukur isipadu cecair ?*
- .....

[1 mark]

(b) Draw lines to match the instruments with their respective functions.  
*Lukiskan garisan-garisan untuk dipadankan dengan fungsi alat tersebut.*

Instruments / Alatan

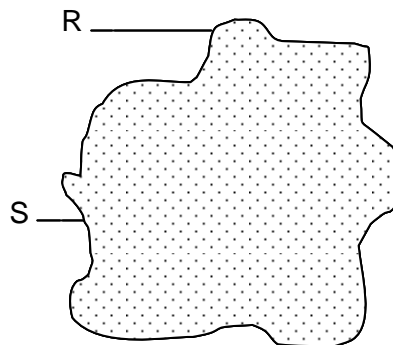
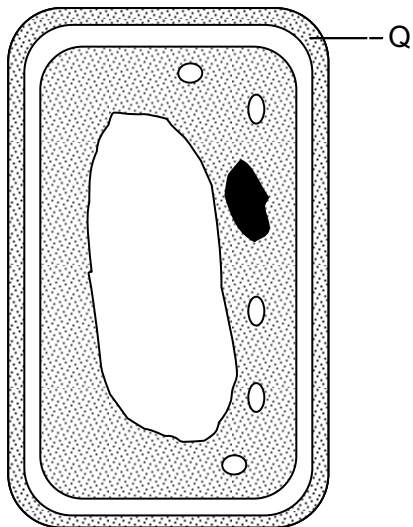
Function / Fungsi



- To support apparatus during heating  
*Menyokong alatan semasa memanaskan*
- To measure temperature  
*Mengukur suhu*
- To conduct the excess heat  
*Mengkonduksikan haba berlebihan*
- To measure time  
*Mengukur masa*

[2 marks]

2. Diagram 2 shows cells M and N. / *Rajah 2 menunjukkan sel M dan N.*



N: .....

Diagram 1.1

*Rajah 1.1*

(a) Name cells M and N in the space provided in Diagram 2.

*Namakan sel-sel M dan N dalam ruang yang disediakan pada Rajah 2*

[2 marks]

(b) P is where photosynthesis takes place. Label P in Diagram 2

*P ialah tempat di mana fotosintesis berlaku. Labelkan P dalam Rajah 2*

[1 mark]

(c) Draw lines to match the structures of the cell and their functions. Draw the lines as shown below.

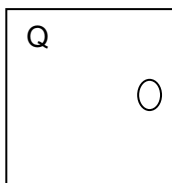
*Padankan struktur sel dengan fungsinya dengan melukis garisan seperti yang ditunjukkan.*

Structure

Function

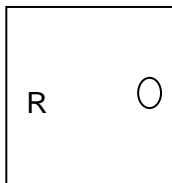
Struktur

Fungsi



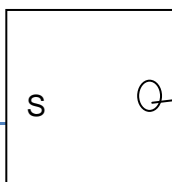
Regulates the movement of substances in and out of the cell

*Mengawal pergerakan bahan-bahan masuk dan keluar dari sel*



Protects and maintains the shape of the cell

*Melindungi dan mengekalkan bentuk sel*



Controls all activities of the cell

*Mengawal segala aktiviti sel*

Contains cell sap

*Mengandungi sap sel*

[2 marks]

3. Diagram 3 shows the structure of the sun.

*Rajah 3 menunjukkan binaan matahari.*

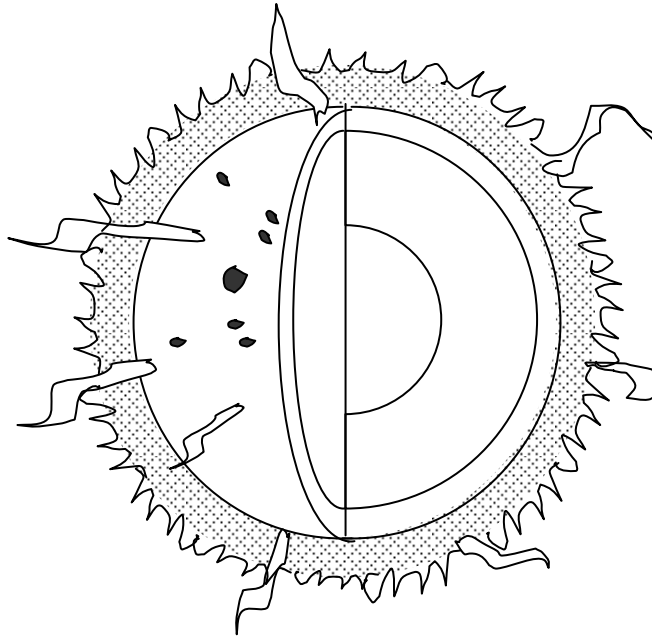


Diagram 1/ *Rajah 1*

(a) Label Diagram 1 using the following words.

*Label Rajah 1 dengan perkataan berikut.*

Corona	Chromosphere	Photosphere
<i>Korona</i>	<i>Koromosfera</i>	<i>Fotosfera</i>

[ 3 marks]

Sunspots are neutral phenomena that can be observed from surface of the Sun.

*Tompok matahari adalah kejadian semulajadi yang dapat dilihat pada permukaan matahari.*

(b) Label a sunspot on Diagram 1. / Label tompok matahari diRajah 1

[1 mark]

(c) Match the structure with the correct statement.

*Padankan binaan dengan kenyataan yang betul.*

Corona <i>Korona</i>	Outermost layer that cannot be seen expect during total solar eclipse. <i>Bahagian paling luar yang tidak dapat dilihat kecuali apabila gerhana penuh matahari.</i>
Photosphere <i>Fotosfera</i>	Darker area and cooler than the surrounding region of the photosphere. <i>Bahagian yang gelap dan lebih sejuk dari bahagian lain di fotosfera</i>
	The surface of the sun and produce visible light we see. <i>Permukaan matahari dan menghasilkan cahaya yang tidak dapat dilihat.</i>

[2 marks]

4. Figure 4 shows a longitudinal section of flower.

*Rajah 4 menunjukkan keratan memanjang sekuntum bunga.*

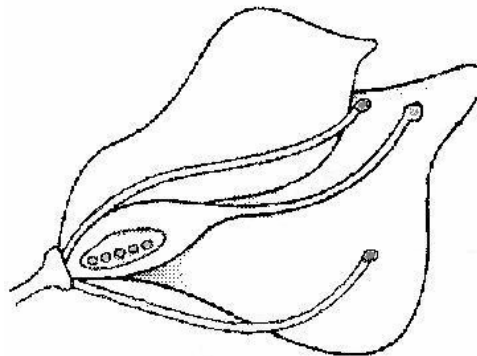
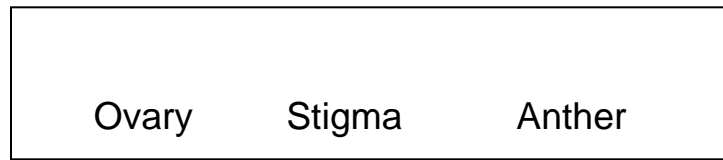


Diagram 4  
*Rajah 4*

- (a) Label **any two** in Figure 1 using the structures given in the box below.  
*Label mana-mana dua dirajah 1 menggunakan struktur yang diberi dibawah.*



[ 2 marks ]

- (b) (i) Name the male part of a flower.

*Namakan bahagian jantan bunga.*

.....  
[ 1 mark ]

- (ii) Name the female part of the flower.

*Namakan bahagian betina bunga.*

.....  
[1 mark ]

- (c) Why flower importance to plant ?  
*Mengapakah bunga penting kepada tumbuhan ?*

.....  
.....  
[1mark ]

5. Copy questions / Salinan soalan

1. Diagram 1 shows some measuring tools.  
*Rajah 1 menunjukkan alat-alat penyukat.*

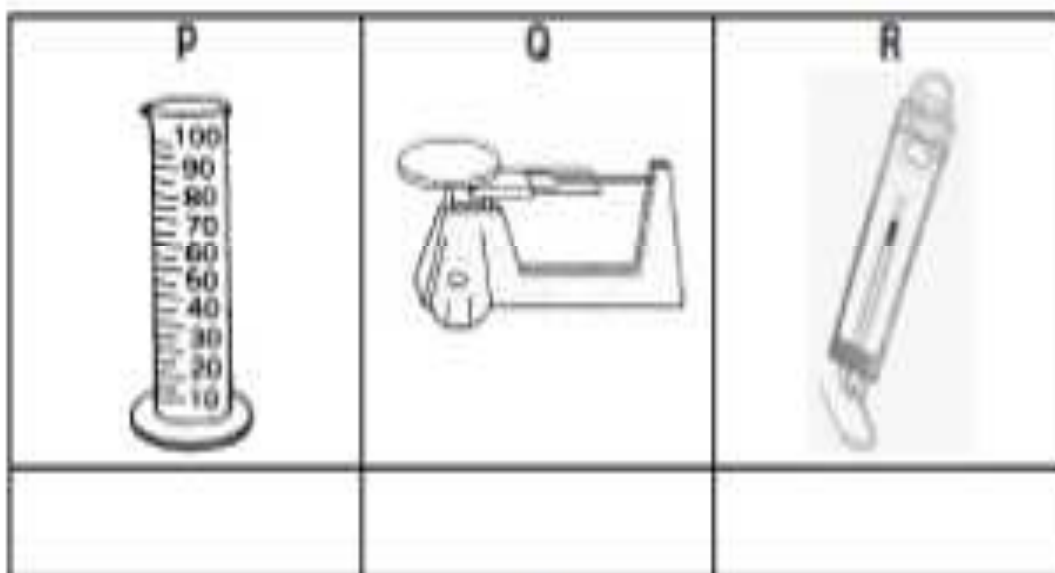


Diagram 1  
*Rajah 1*

- (a) On Diagram 1, label P, Q and R with the following words.  
*Pada Rajah 1, labelkan P, Q dan R dengan perkataan berikut*

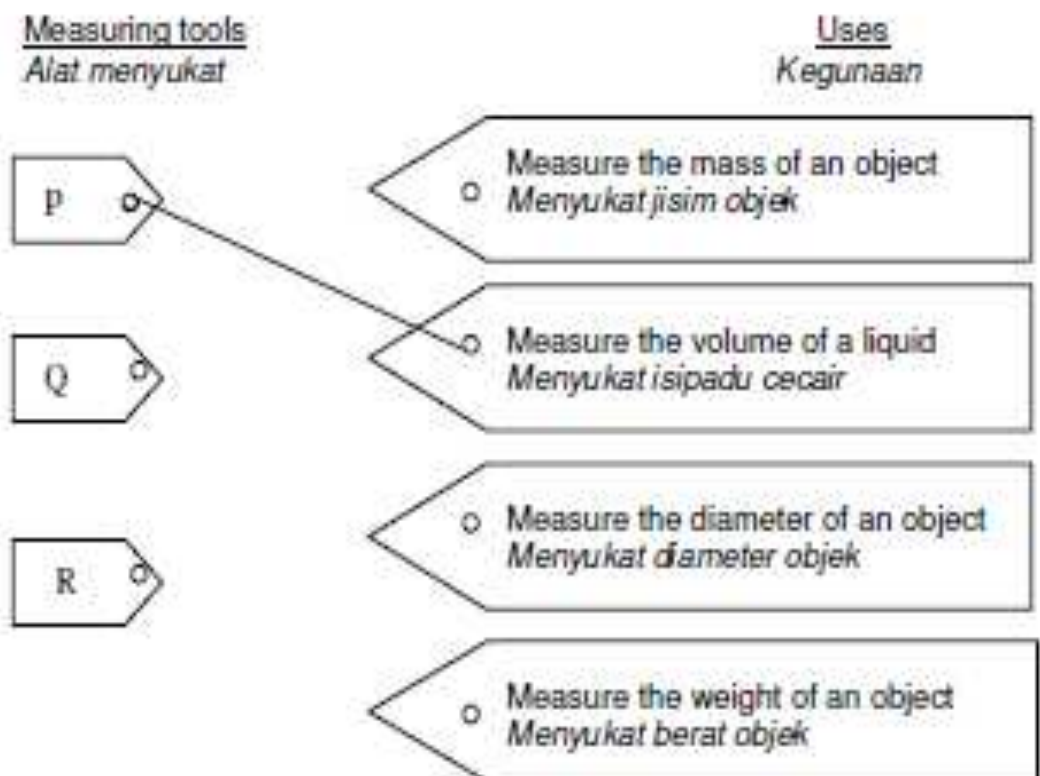
Spring balance	Triple Beam balance	Measuring cylinder
<i>Neraca spring</i>	<i>Neraca tiga palang</i>	<i>Silinder penyukat</i>

- (b) Draw lines to show the correct match between the measuring tools and their uses.

*Lukis garisan untuk menunjukkan padanan yang betul antara alat penyukat dan penggunaannya.*

Draw the lines as shown below.

*Lukis garisan seperti yang ditunjukkan di bawah.*



[ 2 marks ]

- (c) State one measuring tool that can be use to measure mass of an object other than above measuring tools.

*Nyatakan satu alat lain yang digunakan untuk menyukat jisim objek selain daripada alat yang dinyatakan di atas.*

.....

[ 1 mark ]



6. Diagram 6 shows the apparatus found in a science laboratory.

*Diagram 6 menunjukkan radas yang terdapat dalam makmal sains.*

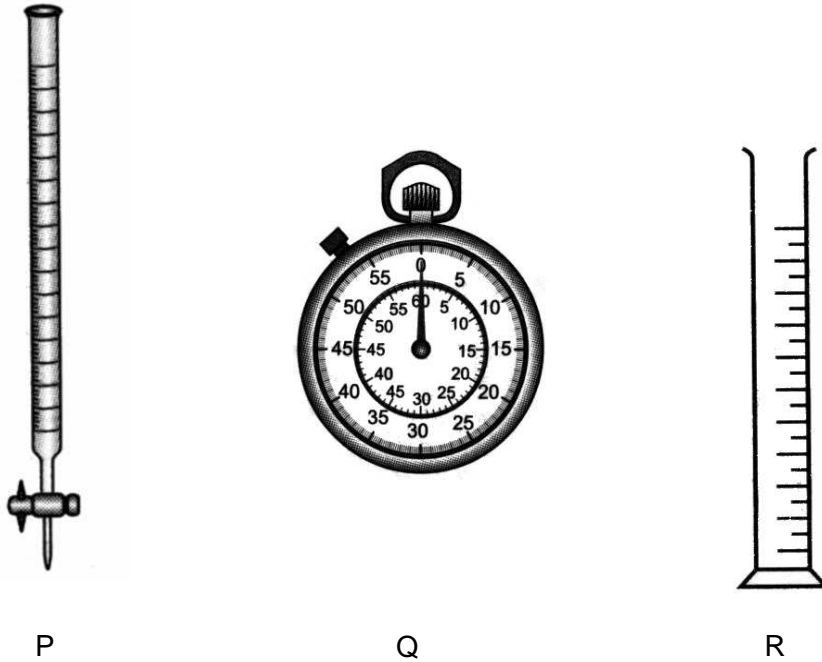


Diagram 1

*Rajah 1*

Pipette <i>Pipet</i>	Measuring Selinder <i>Selinder Penyukat</i>	Stop Watch <i>Jam Randik</i>
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(a) Name the apparatus in Diagram 6 in the spaces below.

*Namakan radas bagi rajah 6 dalam ruang di bawah.*

P .....

Q .....

R .....

(3 marks)

(b) Which of the above apparatus is used to measure :

*Antara rajah di atas manakah yang boleh mengukur :*

(i) Volume of an irregular object

*isipadu objek yang tidak tetap.*

.....

(1 mark)

(ii) The volume of  $20.1\text{cm}^3$  of an acid

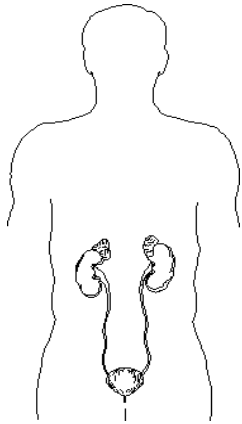
*Isipadu  $20.1\text{ cm}^3$  asid*

.....

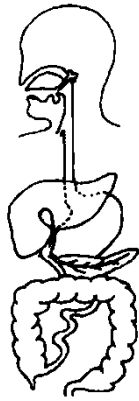
(1 mark)

7. Diagram 7 shows 3 systems in human body.

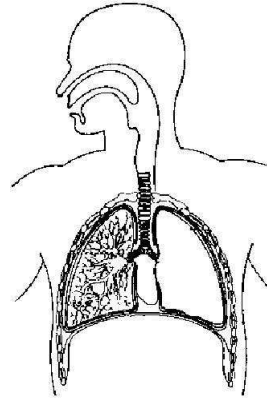
*Rajah 7 menunjukkan 3 sistem dalam badan manusia.*



P:



Q:



S:

Diagram 1 / *Rajah 1*

a) Label diagram 1 with the following informations:

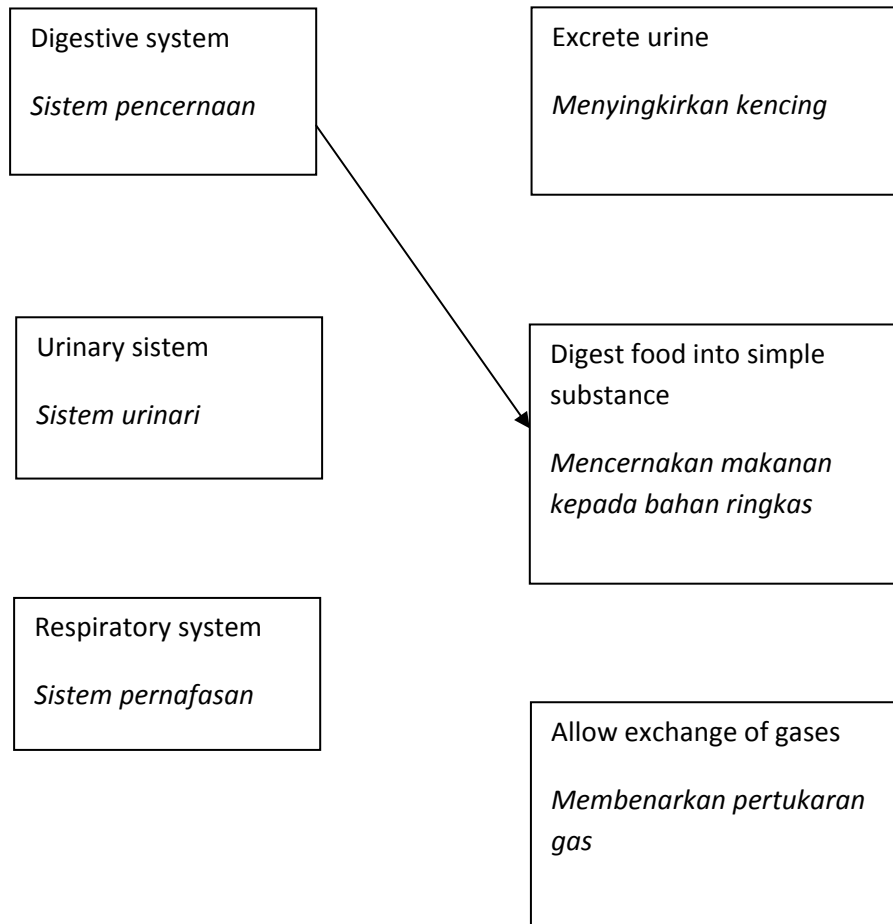
*Labelkan rajah 1 dengan maklumat berikut:*

Reproductive system	Digestive system	Respiration system
<i>Sistem pembiakan</i>	<i>Sistem pencernaan</i>	<i>Sistem pernafasan</i>

[3 marks]

b) Match the system with the correct function.

*Padankan sistem dengan fungsinya yang betul.*



[2 marks]

8. Diagram 8 shows the human respiratory system.

*Rajah 8 menunjukkan sistem respirasi manusia.*

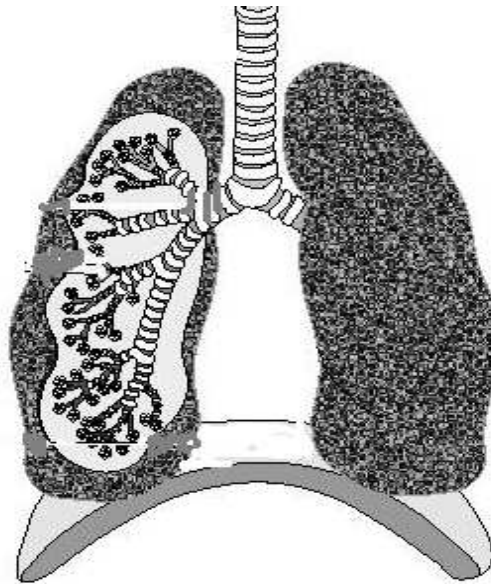


Diagram 8 / Rajah 8

(a) Label the following parts on Figure 1. / *Label bahagian berikut di Rajah 1*

Lung	Diaphragm	Trachea
------	-----------	---------

[3 marks]

(b) The sequence shows the flow of inhaled air in the respiratory system.

*Turutan berikut menunjukkan aliran udara sedutan didalam sistem respiratory.*

Trachea	→	bronchus	→	X	→	alveolus
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Label X on Figure 1. / *Label X di Rajah 1.*

[1 mark]

(c) **R** is the part where gaseous exchange takes place. Label **R** on Figure 1.  
*R adalah bahagian dimana pertukaran gas berlaku. Label R di Rajah 1.*

[ 1 mark ]

9. Diagram 9 shows a 3-pin plug.

*Rajah 9 menunjukkan plug 3-pin.*

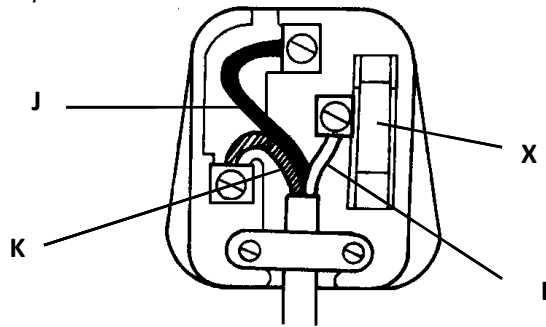


Diagram 9 / Rajah 9

a) Match **any two** wires **J**, **K** and **L** with their functions.

*Padankan mana-mana dua wayar J, K dan L dengan fungsinya.*

**J**

elektrik ke

**K**

rical  
ke alat

**L**

es back  
nbali ke

[2marks]

b) What is the component label as X and state its function.

*Apakah komponen yang berlabel X dan nyatakan fungsinya.*

.....

[2 marks]

c) Why is it much safer to use electrical appliances with 3-pin plug compared to 2-pin plug ?

*Mengapakah adalah lebih selamat menggunakan peralatan elektrik yang menggunakan plug 3-pin jika dibandingkan dengan perlatan yang menggunakan plug 2-pin ?*

.....

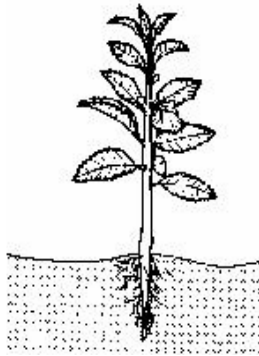
.....

[1 mark]

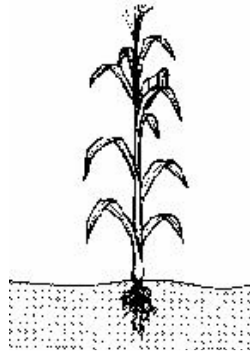
# AMBANG PMR 2010 (S7)

1. Diagram 7 shows a picture of plant P, Q, R and S.

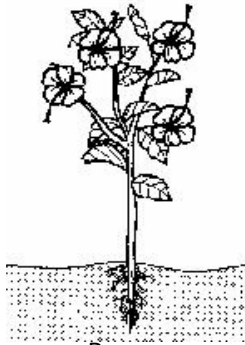
*Rajah 7 menunjukkan gambar tumbuhan P, Q, R dan S.*



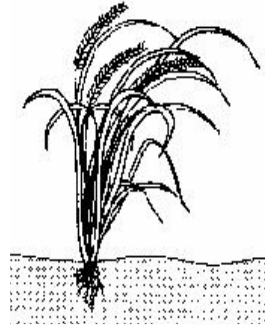
P



Q



R



S

Diagram 7

*Rajah 7*

(a) State **one** characteristic of plants P, Q, R and S.  
*Nyatakan satu ciri tumbuhan P, Q, R dan S.*

P.....

Q.....

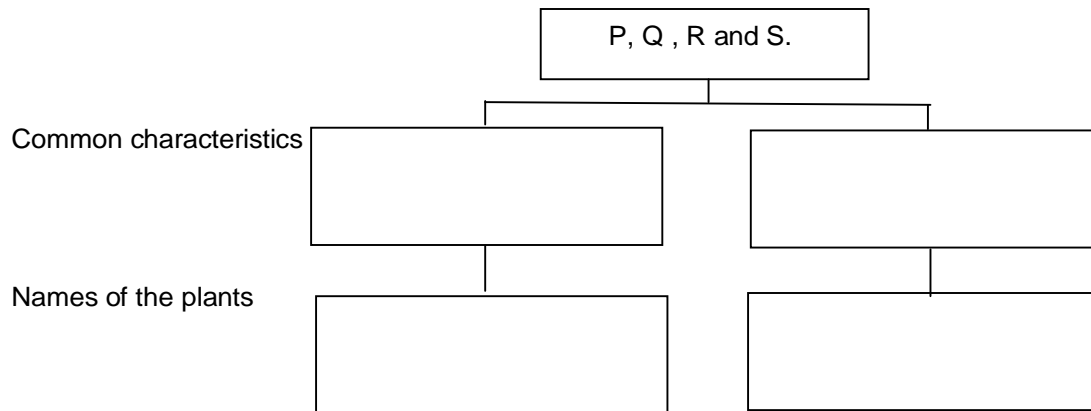
R.....

S.....

[4 marks]

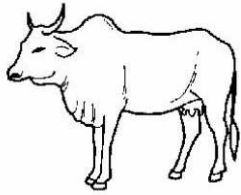


- (b) Classify plants P, Q, R and S into groups based on common characteristics. Name the plants belonging to each group.  
*Kelaskan tumbuhan P, Q, R dan S kedalam dua kumpulan berdasarkan ciri sepunya. Namakan tumbuhan berdasarkan kumpulan masing-masing.*

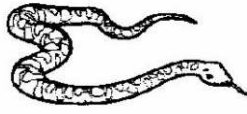


[4 marks]

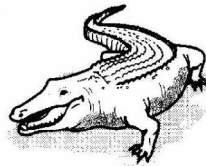
2. Diagram 7 shows a picture of animal W, X, Y, and Z.  
Rajah 7 menunjukkan gambar haiwan W, X, Y dan Z



W



X



Y



Z

Diagram 7 / Rajah 7

- (a) State **one** characteristic of animals W, X, Y and Z.  
Nyatakan satu ciri haiwan W, X, Y dan Z.

W : .....

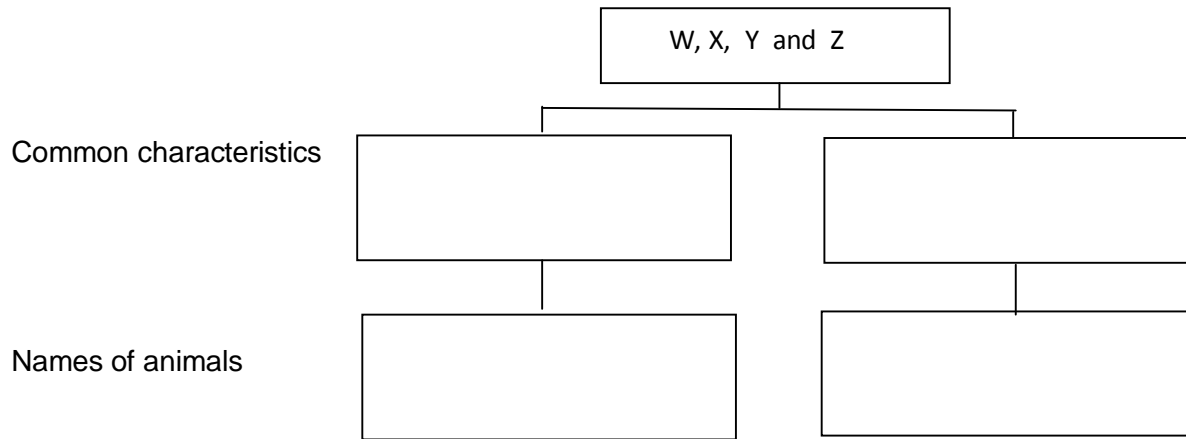
X : .....

Y : .....

Z : .....

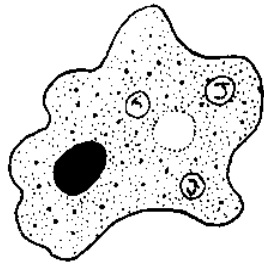
[4 marks]

- (b) Classify animals W, X, Y and Z into groups based on common characteristics. Name the animals belonging to each group.  
Kelaskan haiwan W, X, Y dan Z kedalam kumpulan berdasarkan cirri sepunya.  
Namakan haiwan berdasarkan setiap kumpulan.



[4 marks]

3. Diagram 7.1 shows four organisms, P, Q, R and S that reproduce in different ways.



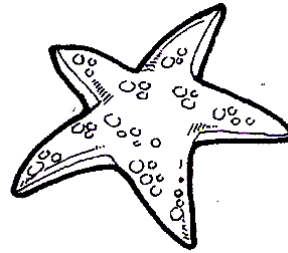
P



Q



R



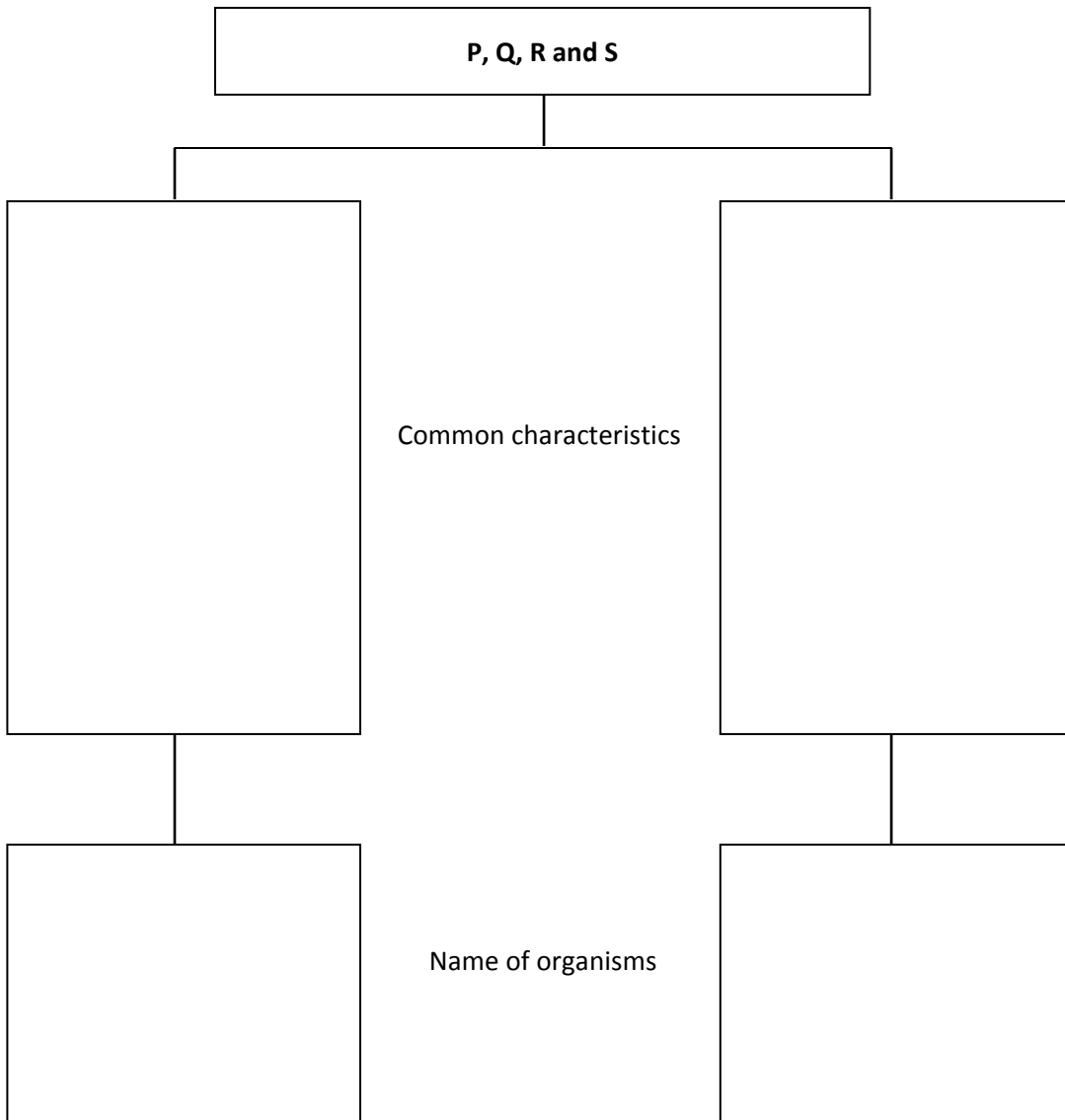
S

Diagram 7.1

State **one** characteristic that can be observed from any **three** organisms by referring to their way of reproduction.

Organisms	Way of Reproduction

(b) Classify the organisms, P, Q, R and S into groups based on their common characteristics.



[4 marks]

- (c) Diagram 7.2 shows three conditions, J, K and L, for germination of seeds.  
*Rajah 7.2 menunjukkan tiga keadaan J , K , dan L untuk percambahan biji benih.*

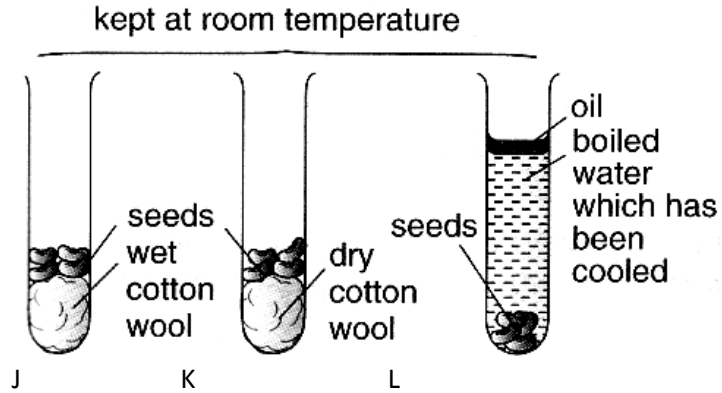


Diagram 7.2  
 Rajah 7.2

Based on Diagram 7.2:  
*Berdasarkan rajah 7.2 :*

- (i) State **one** inference about the condition required for germination of seeds.  
*Nyatakan satu inferen berkaitan keadaan yang diperlukan untuk percambahan biji benih.*

.....  
 .....  
[1 mark]

- (ii) Predict which condition is the most suitable for the seeds to germinate.  
*Ramalkan keadaan manakah yang sangat sesuai untuk biji benih bercambah.*

.....  
[1 mark]

- (iii) State the relationship between the presence of water and air with the germination of seeds.  
*Nyatakan perhubungan diantara kehadiran air dan udara dengan percambahan biji benih.*

.....  
 .....  
[1 mark]

3. Diagram 7 shows four sources of energy, R, S, T and U.

*Rajah 7 menunjukkan empat sumber tenaga R , S , T dan U.*

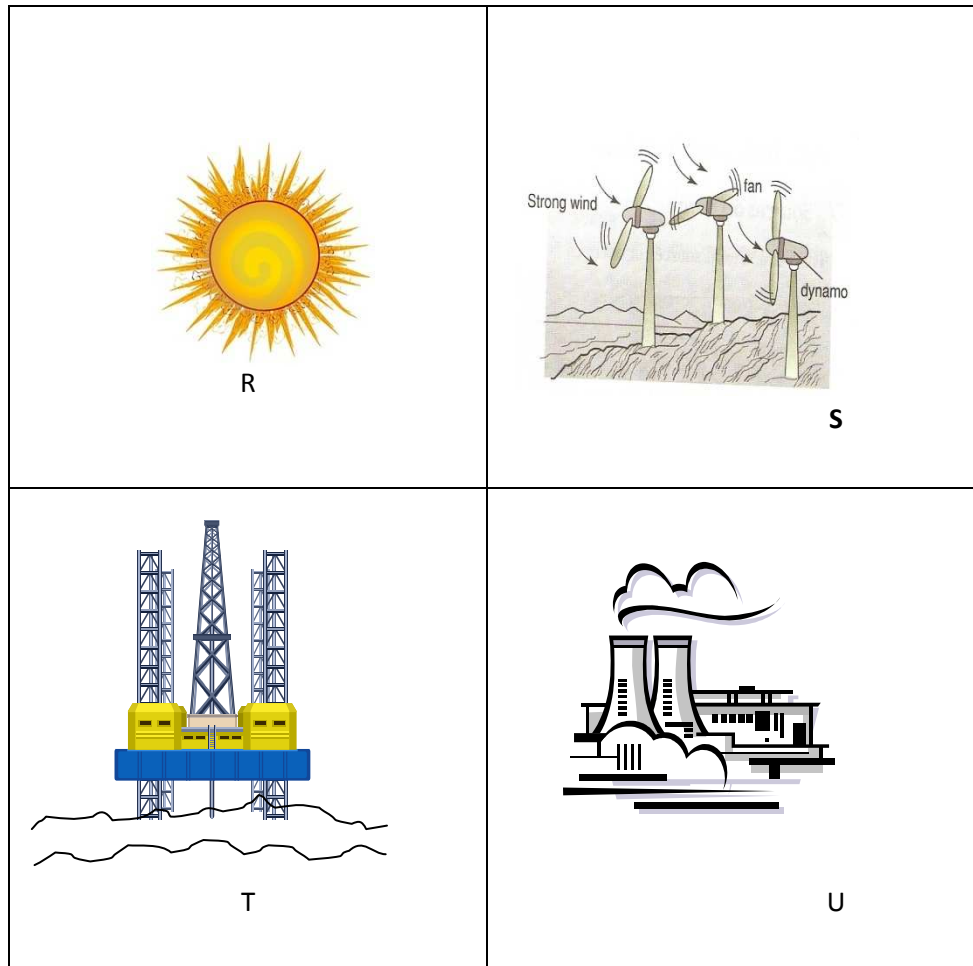


Diagram 7 / Rajah 7

(a) State the source of energy shown in Diagram 7.  
*Nyatakan sumber tenaga yang ditunjukkan pada rajah 7.*

(i) R : .....

(ii) S : .....

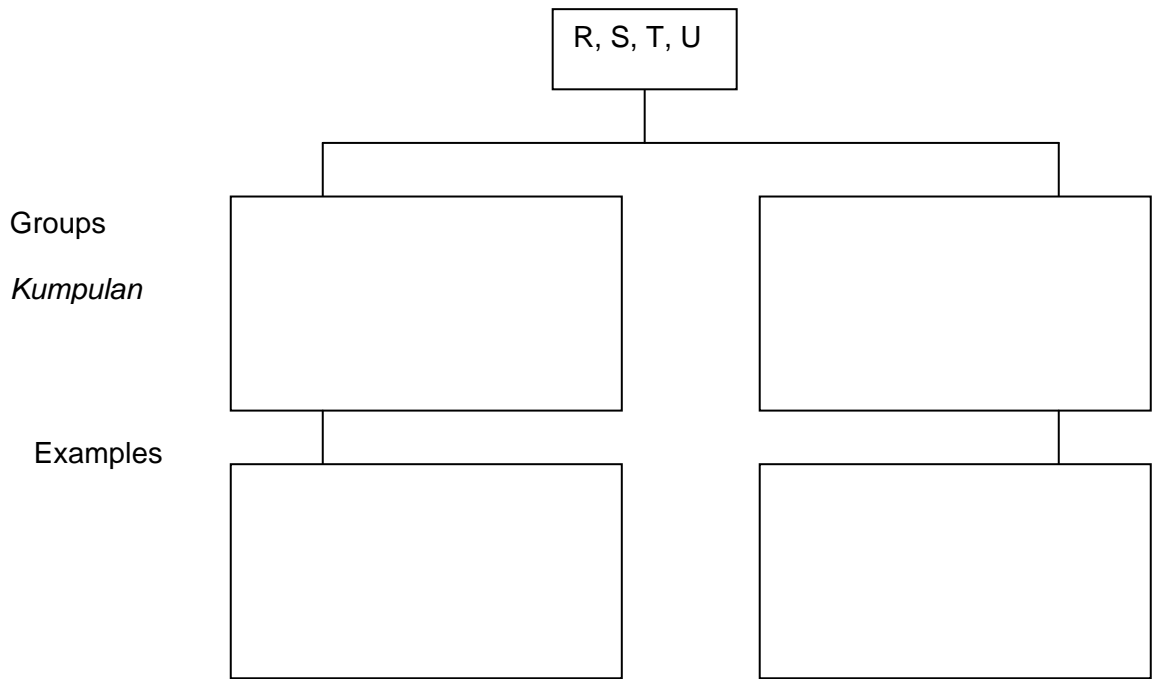
(iii) T : .....

(iv) U : .....

[4 marks]

(b) Classify R, S, T and U into two main groups belonging and give name of examples for each group.

*Kelaskan R, S, T dan U didalam dua kumpulan sepunya dan berikan contoh untuk setiap kumpulan.*



[ 4 marks ]

(c) Diagram 7.2 shows an activity to compare the amount of heat in beakers X and Y.

*Rajah 7.2 menunjukkan aktiviti membanding jumlah haba dalam bekas X dan Y*

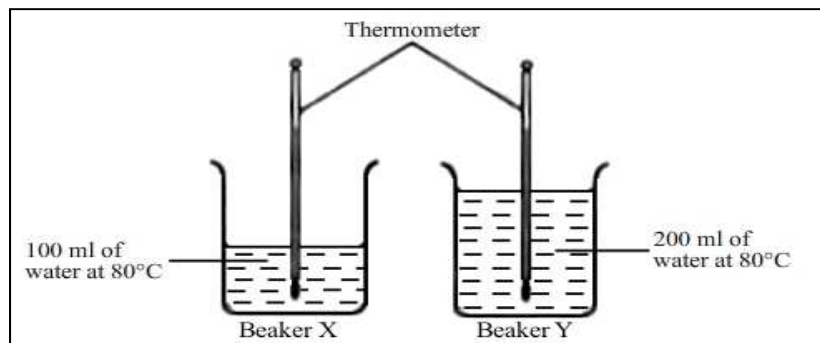




Diagram 7.2 / Rajah 7.2

(i) Base on your observation , what can be said about water in beaker X and Y in diagram 7.2 .

*Berdasarkan pemerhatian anda , apakah yang dapat dikatakan mengenai air dalam bikar X dan Y dalam rajah 7.2.*

.....  
.....

[ 1 mark ]

(ii) State your inference base on activity above.

*Nyatakan inferen anda berdasarkan aktiviti diatas.*

.....  
.....

[ 1 mark ]

4

Diagram 7 shows four pictures of plants W, X, Y and Z.  
*Rajah 7 menunjukkan empat gambar tumbuhan W, X, Y dan Z*

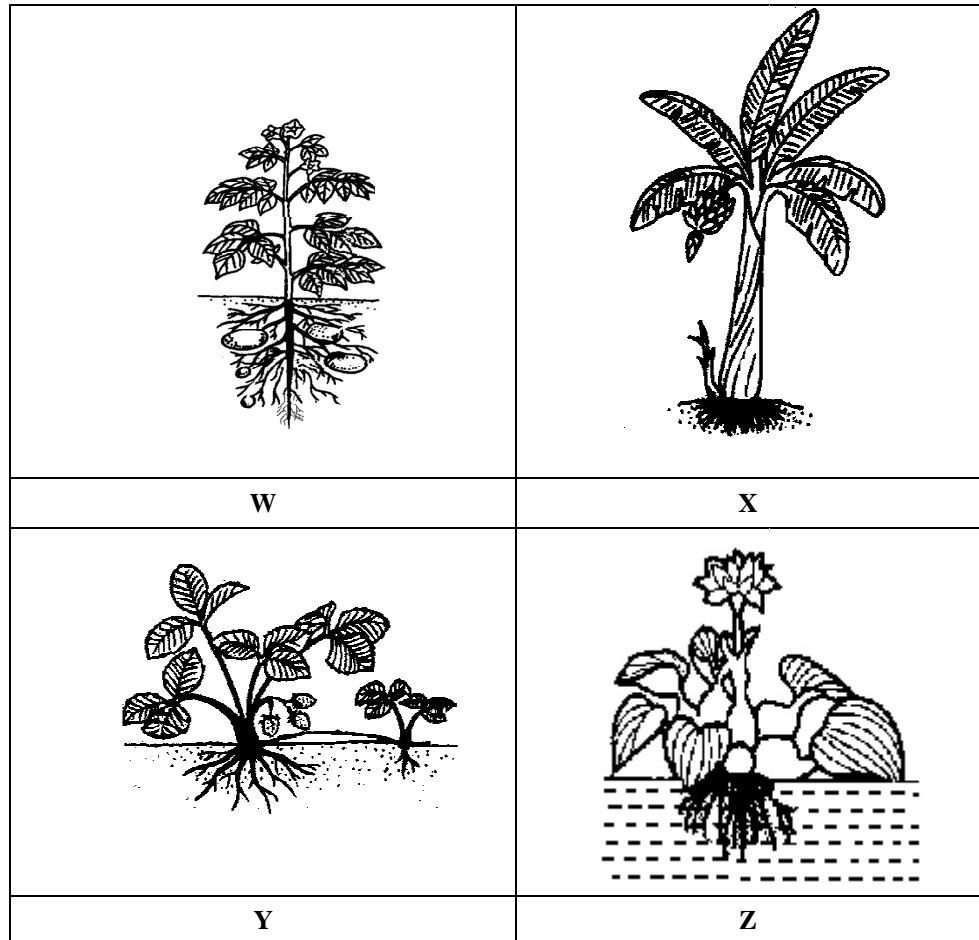


DIAGRAM 7 / RAJAH 7

- (a) Observe the plants in Diagram 7. / *Perhatikan tumbuhan di Rajah 7.*  
Based on your observations, state **one** characteristic of plants W, X, Y and Z.  
*Berdasarkan pemerhatian anda, nyatakan satu ciri pada tumbuhan W, X Y dan Z.*

W : .....

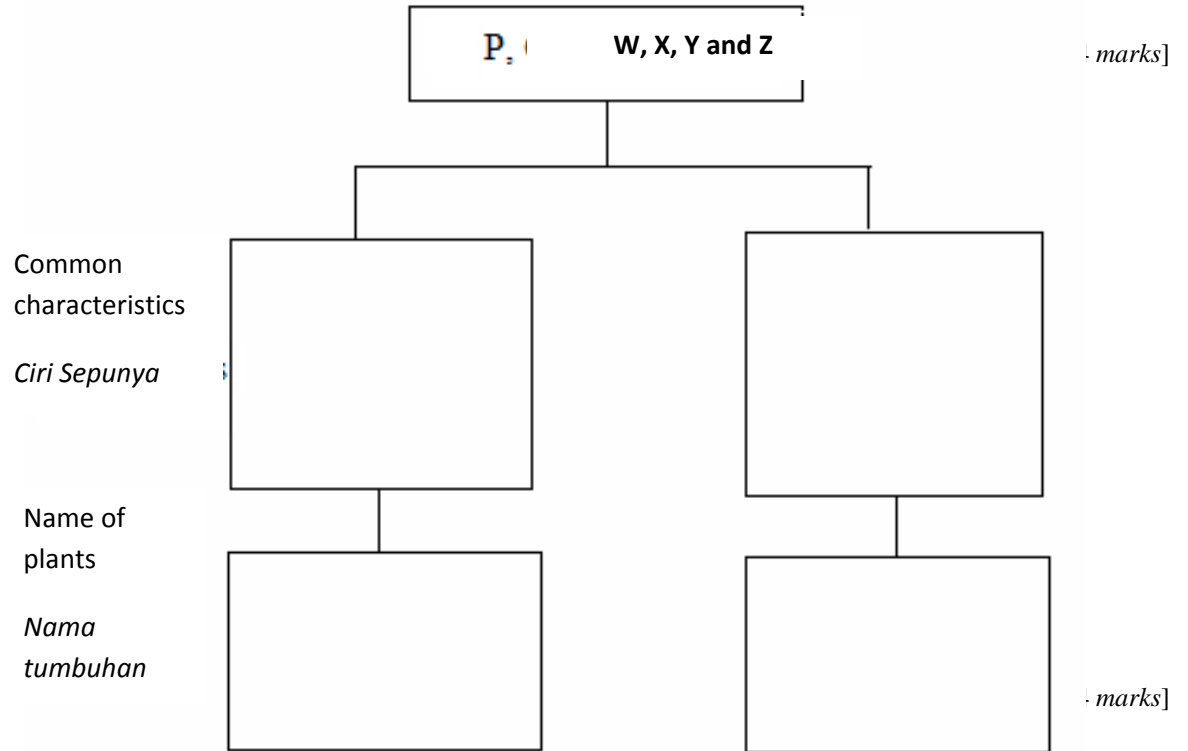
X : .....

Y : .....

Z : .....

[4 marks]

- (b) Classify plants W, X, Y and Z in Diagram 7 into two groups based on their common characteristics. Write the name of the plants belonging to each group.  
*Kelaskan tumbuhan W, X, Y dalam rajah 7 kedalam dua kumpulan berdasarkan Ciri sepunya. Tuliskan nama tumbuhan didalam setiap kumpulan.*



5. Diagram 7 shows organisms P, Q, R and S.  
*Rajah 7 menunjukkan organism P, Q, R dan S.*

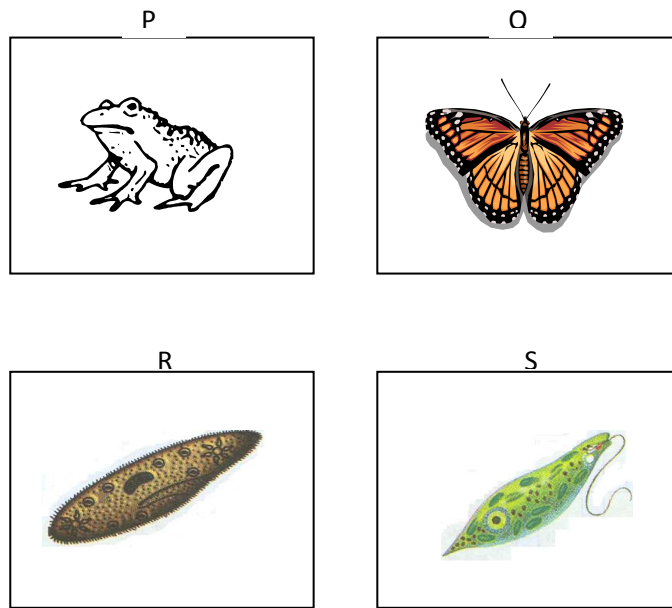


Diagram 7

*Rajah 7*

(a) Based on Diagram 7, state how each of the organisms reproduce.  
*Berdasarkan Rajah 7, nyatakan bagaimana organisma tersebut membiak.*

- P : .....
- Q : .....
- R : .....
- S : .....

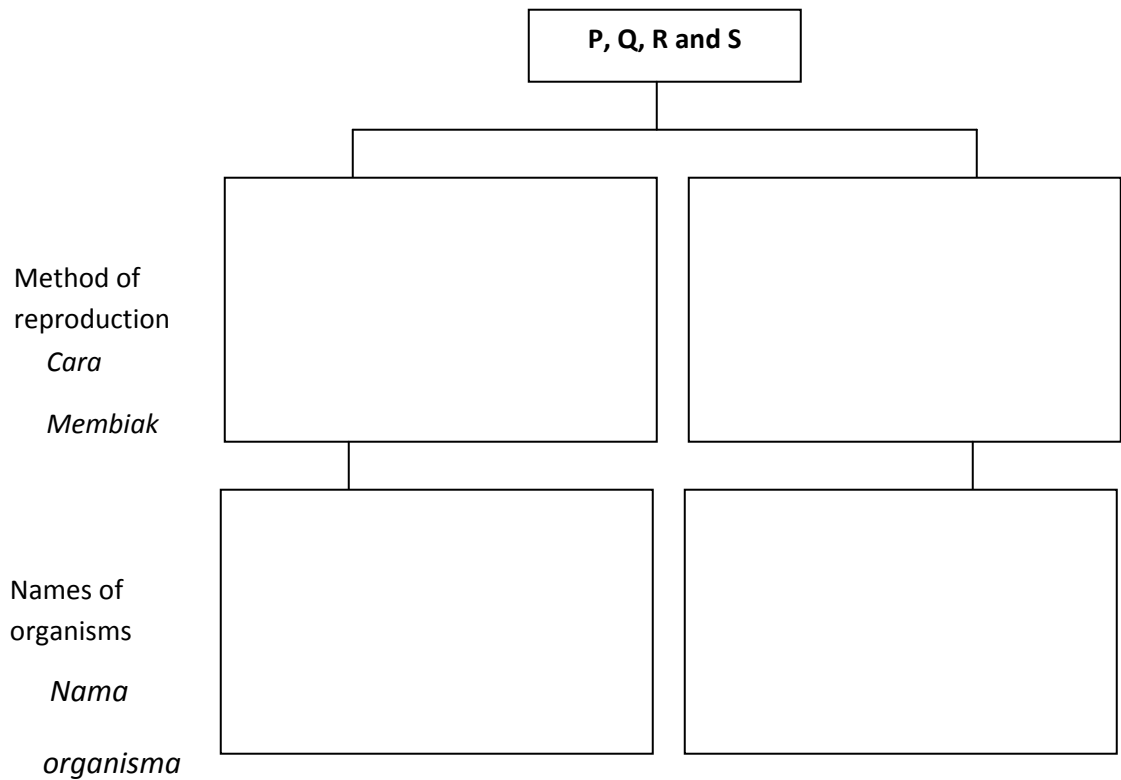
[4 marks]

(b) Classify P, Q, R and S into two groups based on their method of reproduction.

Name one example for each group.

*Kelaskan P, Q, R dan S dalam dua kumpulan berdasarkan cara membiak.*

*Namakan contoh-contoh bagi setiap kumpulan.*



[4 marks]

2 6. Diagram 7 shows four different electric circuits.

Rajah 7 menunjukkan empat litar elektrik yang berbeza.

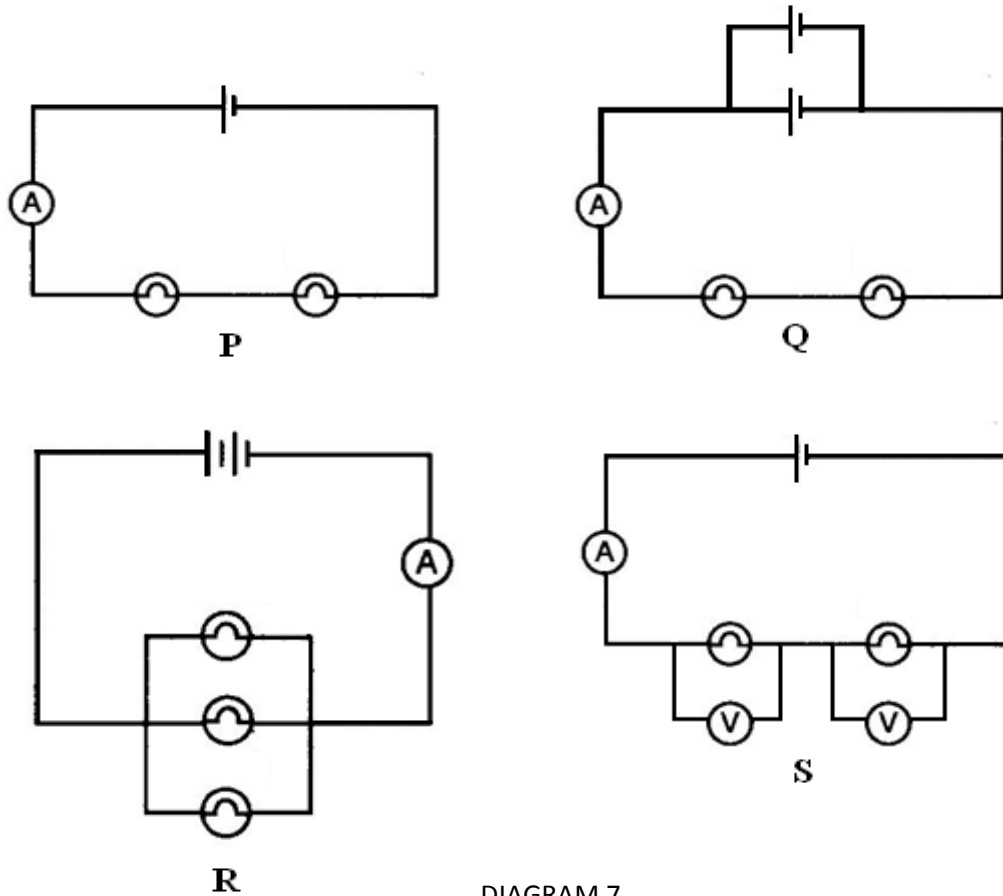


DIAGRAM 7

Rajah 7

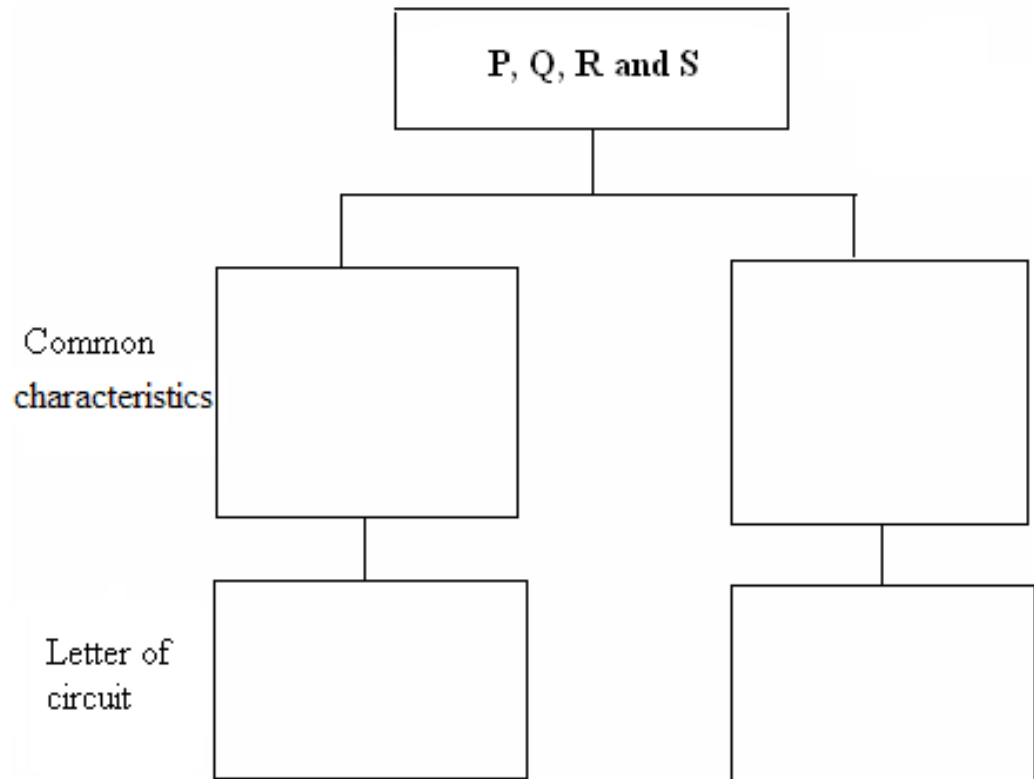
(a) **Observe** the circuit in Diagram 7. State the type of electrical circuit for P, Q, R and S.

Perhatikan rajah litar dalam rajah . Nyatakan jenis litar untuk P , Q , R dan s

- (i) P : .....
- (ii) Q : .....
- (iii) R : .....
- (iv) S : .....

[4 marks]

- (b) Classify the circuit in Diagram 7 into two groups based on their **common characteristics**. Write the **letter P, Q, R and S** of the circuit belonging to each group.  
*Kelaskan litar dalam rajah 7 didalam dua kumpulan berdasarkan ciri sepunya.*  
*Tuliskan huruf P, Q R dan S untuk litar didalam setiap kumpulan kumpulan*



[4 marks]

7. Diagram 7 shows the arrangement of particles in four substances.

Rajah 7 menunjukkan susunan zarah-zarah dalam empat bahan

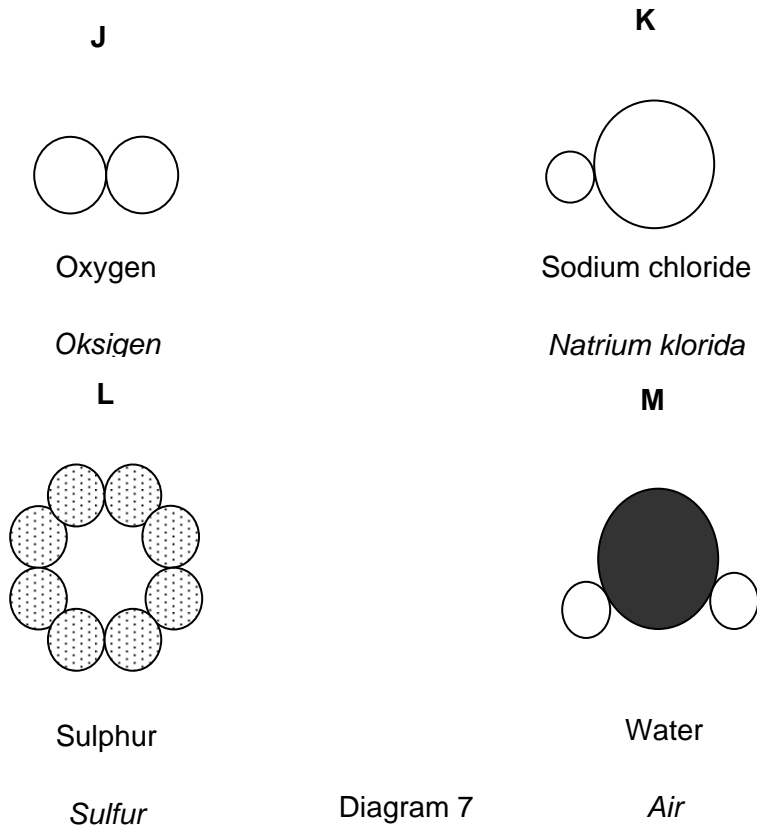


Diagram 7

Rajah 7

(a) Observe Diagram 1. Based on your observation, state **one** property of J, K, L, and M.

Perhatikan Rajah 1. Berdasarkan pemerhatian anda, nyatakan **satu** ciri bagi J, K, L, dan M

J : .....

K : .....

L : .....

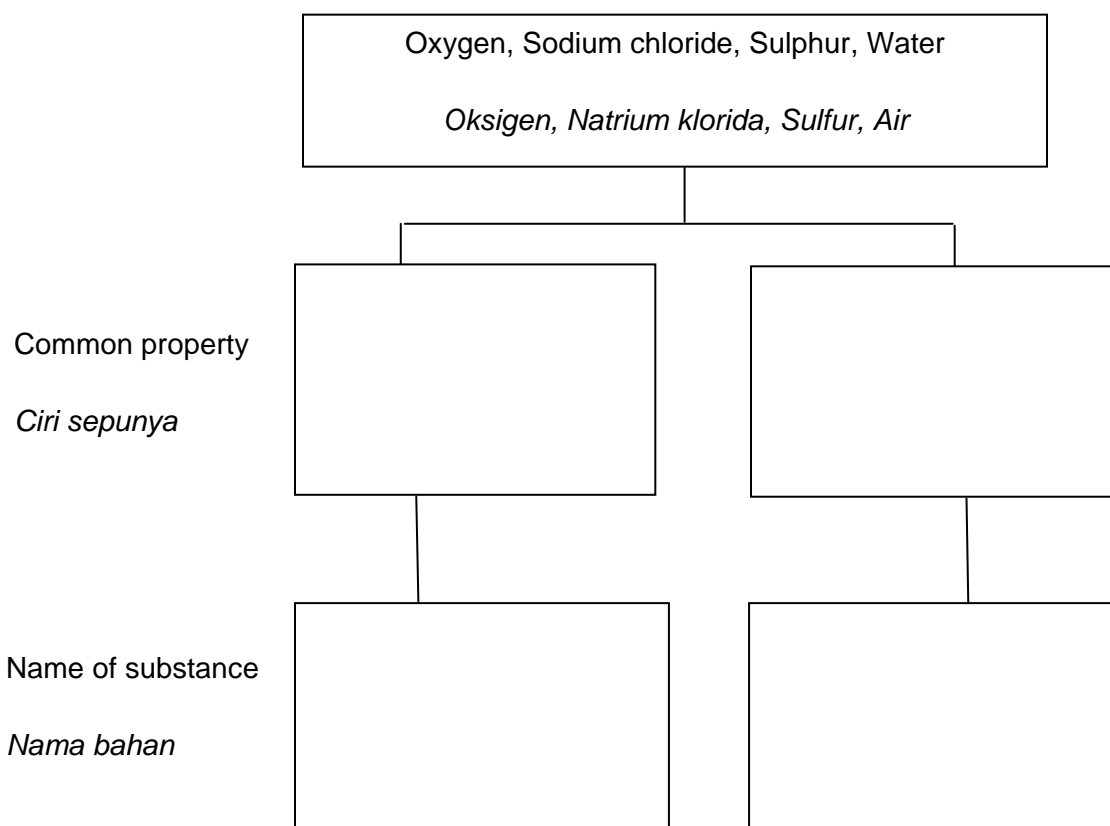
M : .....

[4 marks]



b) Classify J, K, L, and M in Diagram 7 into two groups based on common properties. Write the letters of the substances belonging to each group.

*Kelaskan J, K, L, dan M dalam Rajah 7 kepada dua kumpulan berdasarkan ciri sepunya. Tuliskan huruf-huruf yang mewakili bahan itu bagi setiap kumpulan.*



[4 marks]

8. Diagram 7 shows four types of simple machines, J, K, L and M.

Rajah 7 menunjukkan 4 jenis tuas J, K, L dan M

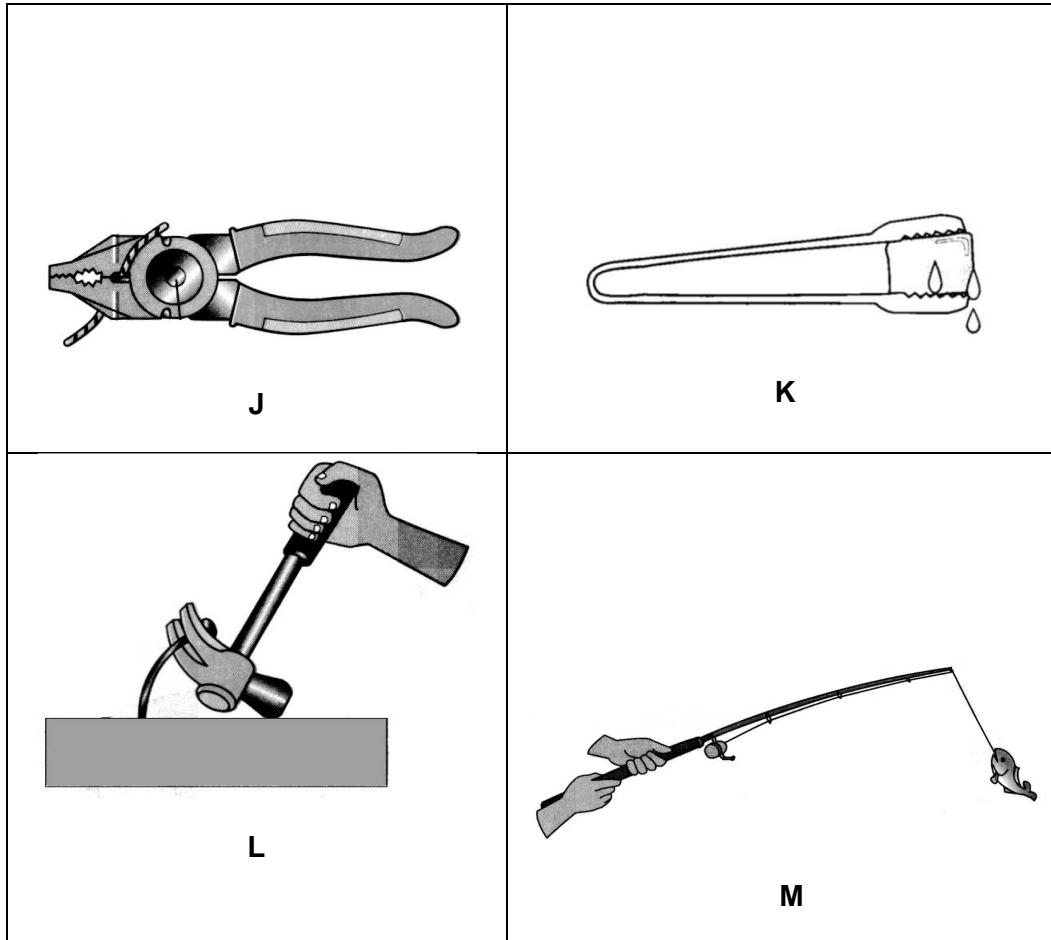


DIAGRAM 7 RAJAH 7

a) Based on your observation in diagram 7, state the class of lever J, K, L and M belong to.

Berdasarkan pemerhatian didalam rajah 7, nyatakan kelas-kelas tuas J, K, L dan M

J : .....

K : .....

L : .....

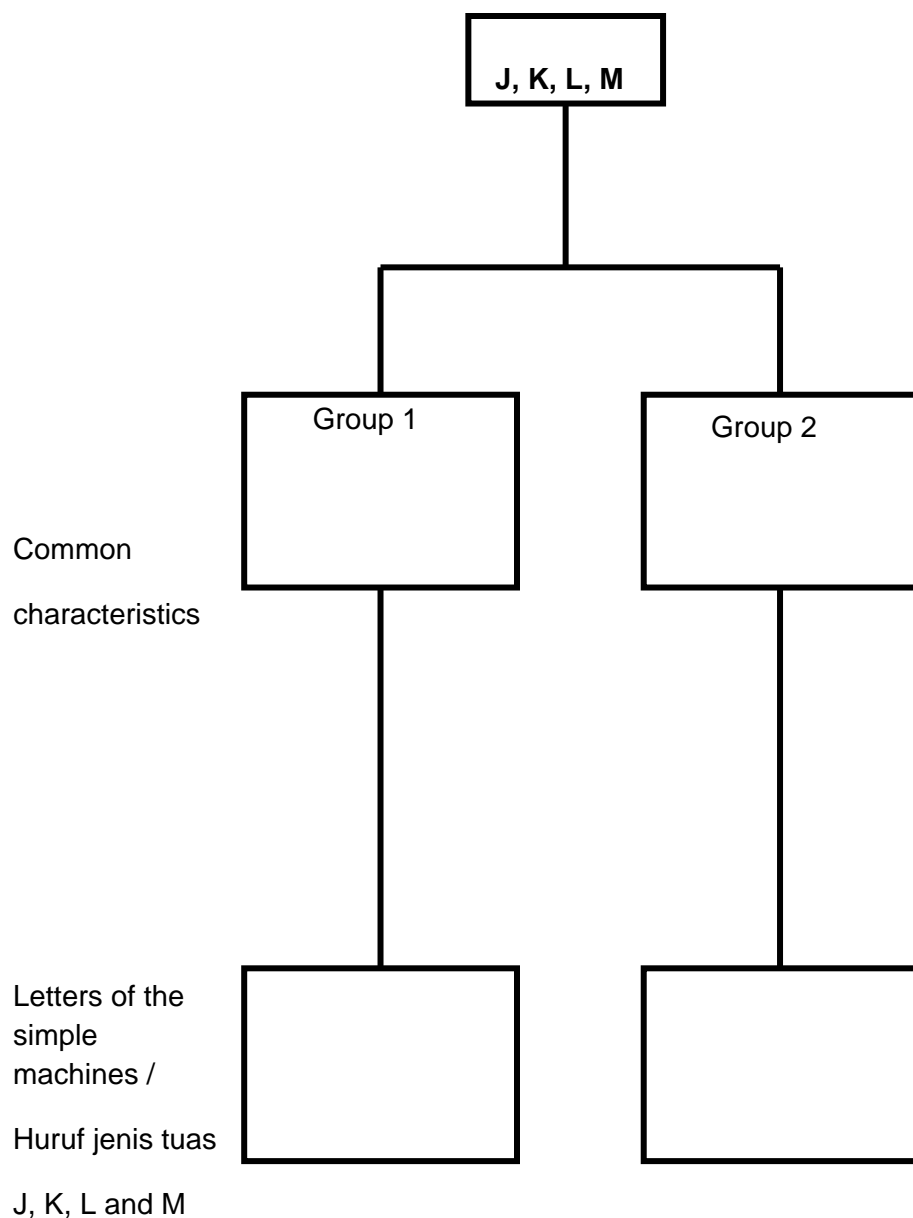
M : .....

[4 marks]

b) Classify the simple machines J, K, L and M in diagram 7 into two groups based on their common characteristics. Write the letters of the simple machines belonging to each group.

*Kelaskan tuas-tuas J, K, L dan M di rajah 7 di dalam 2 kumpulan berdasarkan ciri-ciri*

*Sepunya mereka. Tuliskan huruf -huruf tuas didalam kumpulannya.*



(4 marks)