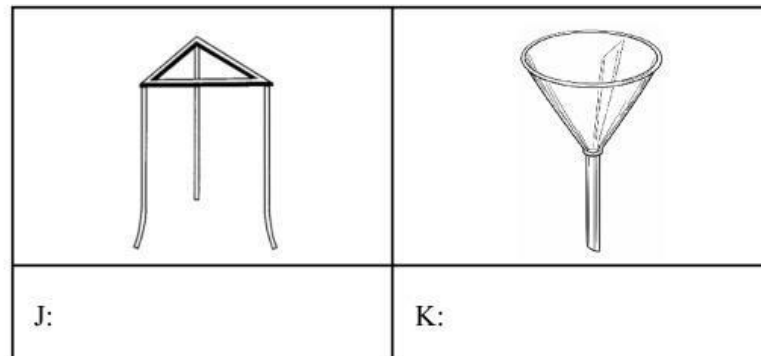


1  
**Sains Tingkatan 1**

- 1 Rajah di bawah menunjukkan radas J dan K yang terdapat di dalam makmal sains.  
*The diagram below shows apparatus J and K found in the science laboratory.*



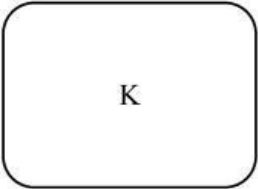
- (a) Label radas J dan K menggunakan perkataan berikut.  
*Label apparatus J and K using the following words.*

|                                      |                                         |                                      |
|--------------------------------------|-----------------------------------------|--------------------------------------|
| Corong turas<br><i>Filter funnel</i> | Tungku kaki tiga<br><i>Tripod stand</i> | Kelalang kon<br><i>Conical flask</i> |
|--------------------------------------|-----------------------------------------|--------------------------------------|

[2 markah / 2 marks]

2  
**Sains Tingkatan 1**

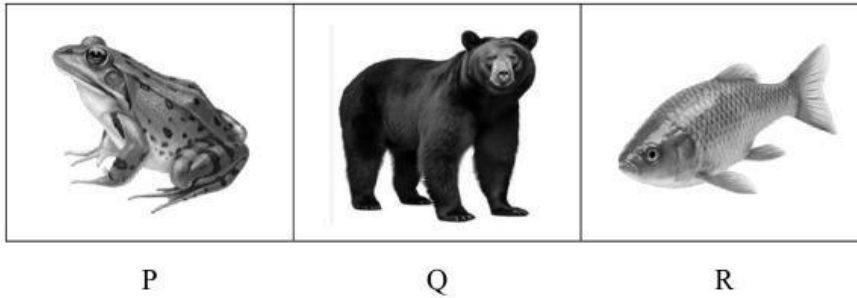
- (b) Padankan radas J dan K dengan fungsinya.  
*Match the apparatus J and K with their functions.*

| <b>Radas</b><br><i>Apparatus</i>                                                   | <b>Fungsi</b><br><i>Function</i>                                                                                                                                                                                            |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <ul style="list-style-type: none"><li>• Menuras atau menapis pepejal tidak larut daripada campuran<br/><i>Strains or filters insoluble solids from a mixture</i></li></ul>                                                  |
|  | <ul style="list-style-type: none"><li>• Menyokong radas semasa pemanasan<br/><i>Support an apparatus during heating</i></li><li>• Memegang atau menyokong sesuatu radas<br/><i>Holds or supports an apparatus</i></li></ul> |

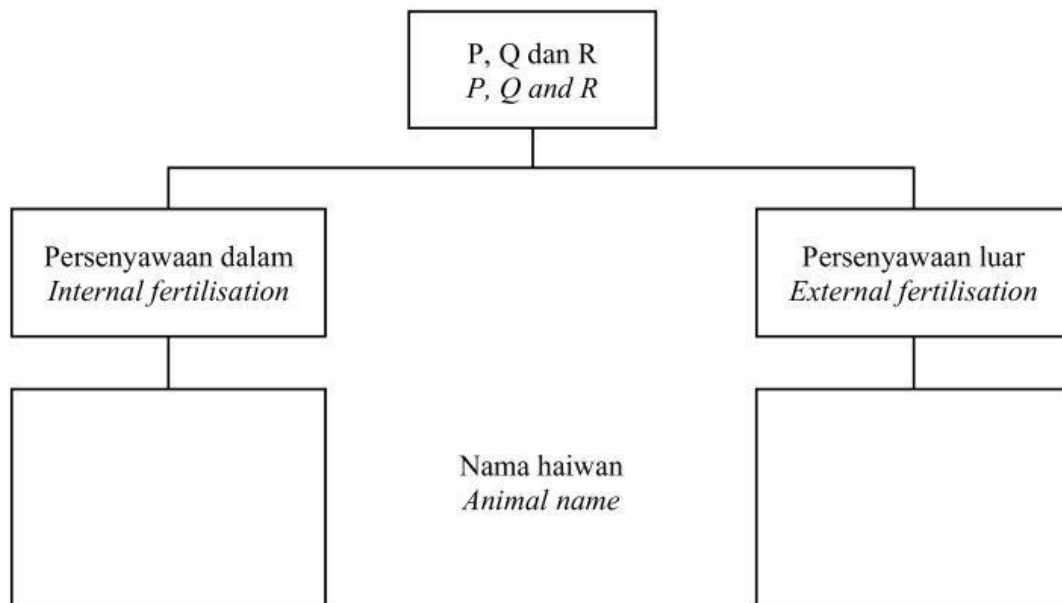
[2 markah / 2 marks]

3  
**Sains Tingkatan 1**

- 2 Rajah di bawah menunjukkan beberapa jenis haiwan.  
*The diagram below shows several types of animals.*



- (a) Kelaskan haiwan-haiwan tersebut kepada dua jenis persenyawaan seperti di bawah.  
*Classify the animals into two types of fertilisation as below.*



[2 markah / 2 marks]

**Sains Tingkatan 1**

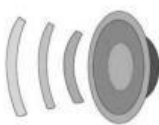
- (b) Tandakan (✓) pada benda hidup yang menjalani pembiakan aseks.  
*Mark (✓) on living things that undergo asexual reproduction.*

|                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
|                                                                                   |                                                                                    |                                                                                     |

[2 markah / 2 marks]

5  
**Sains Tingkatan 1**

- 3 (a) Rajah di bawah menunjukkan benda hidup dan benda bukan hidup.  
*The diagram below shows living and non-living things.*

|                                                                                   |                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| J:                                                                                | K:                                                                                | L:                                                                                  |

Tuliskan **Jirim** atau **Bukan jirim** pada J, K dan L.

*Write **Matter** or **Non-matter** on J, K and L.*

[2 markah / 2 marks]

- (b) Tulis **BENAR** bagi pernyataan yang betul dan **PALSU** bagi pernyataan yang salah.  
*Write **TRUE** for the correct statement and **FALSE** for the incorrect statement.*

| <b>Pernyataan<br/>Statement</b>                                                                                                                                                                                                                                                  | <b>BENAR / PALSU<br/>TRUE / FALSE</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| (i) Jirim ialah semua benda yang mempunyai jisim dan memenuhi ruang<br><i>Matter is anything that has mass and occupies space</i>                                                                                                                                                |                                       |
| (ii) Sifat fizik ialah kualiti yang tidak dapat dikenal pasti dengan menggunakan alat pengukur<br><i>Physical properties are qualities that cannot be identified using measuring instruments</i>                                                                                 |                                       |
| (iii) Pelbagai jenis bahan dapat dikelaskan dengan menggunakan ciri-ciri seperti ketumpatan, takat lebur, takat didih dan keterlarutan<br><i>Various types of materials can be classified using characteristics such as density, melting point, boiling point and solubility</i> |                                       |

[2 markah / 2 marks]

6  
**Sains Tingkatan 1**

- 4 (a) Tandakan (✓) pada fenomena semula jadi yang berlaku disebabkan oleh penyerakan cahaya.

*Mark (✓) on the natural phenomenon that occur due to the scattering of light.*



[2 markah / 2 marks]

- (b) Tandakan (✓) bagi bagi pernyataan yang **betul**.

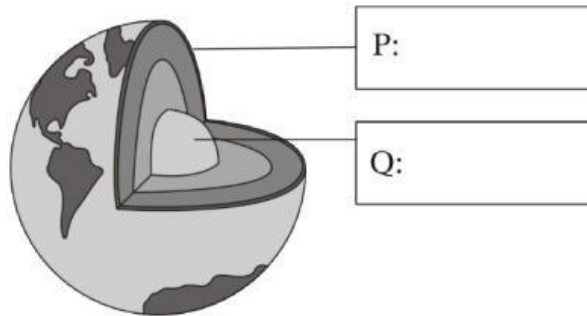
*Mark (✓) for the **correct** statement.*

| Pernyataan<br><i>Statement</i>                                                                                                                                                                                                                                                                            | Tandakan (✓)<br><i>Mark (✓)</i> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| (i) Penyerakan cahaya berlaku apabila sinar cahaya dibiaskan pada satu arah oleh zarah-zarah udara<br><i>Scattering of light occurs when light rays are refracted in one direction by air particles</i>                                                                                                   |                                 |
| (ii) Cahaya biru diserak paling banyak ke semua arah oleh molekul-molekul udara yang halus dalam atmosfera pada waktu tengahari<br><i>Blue light is scattered the most in all directions by the fine air molecules in the atmosphere at noon</i>                                                          |                                 |
| (iii) Langit pada waktu senja kelihatan kemerahan kerana cahaya merah dan jingga paling kurang diserak dan dapat melalui atmosfera tanpa gangguan<br><i>The sky at dusk appears reddish because red and orange light are scattered the least and can pass through the atmosphere without interference</i> |                                 |

[2 markah / 2 marks]

7  
**Sains Tingkatan 1**

- 5 (a) Rajah di bawah menunjukkan lapisan Bumi.  
*The diagram below shows the layers of the Earth.*



Tuliskan nama lapisan P dan Q pada rajah di atas.  
*Write the names of layers P and Q in the diagram above.*

[2 markah / 2 marks]

- (b) Gariskan perkataan yang **betul** dalam pernyataan di bawah.  
*Underline the **correct** word in the statement below.*

- (i) Lapisan (mesosfera, troposfera) merupakan tempat berlakunya pembakaran dan penghancuran meteorit.

*The (mesosphere, troposphere) layer is where the combustion and destruction of meteorites takes place.*

- (ii) Jalur-jalur cahaya yang berwarna-warni terhasil daripada tindakan zarah-zarah bercas dengan medan magnet Bumi dan gas-gas atmosfera berlaku di lapisan (eksosfera, termosfera).

*Colourful streaks of light result from the interaction of charged particles with the Earth's magnetic field and atmospheric gases occurring in the (exosphere, thermosphere) layer.*

[2 markah / 2 marks]