When you are taking this exam, remember these important things:
- Read each question carefully and think about the answer before you write.
- Number your answers correctly.
- Rule off between each section.
- If you finish early, you must check your work.

Section A: Sound, energy and music
1. Multiple choice
   Answer the following questions by writing down the correct LETTER only.

1.1 Which sentence is not true?
   A) When a sound is made, something vibrates.
   B) The pitch of a sound shows how high or low the sound is.
   C) Sound can only travel through air, not through liquids or solids.

1.2 Which two words mean almost the same thing?
   A) volume and loudness
   B) hard and smooth
   C) whisper and shout

1.3 Complete the following sentence: The harder you hit a drum...
   A) ... the louder the sound.
   B) ... the higher the pitch of the sound.
   C) ... the lower the pitch of the sound.

1.4 Why do people using large noisy machines often wear earmuffs?
   A) They want to protect their ears from dust.
   B) Their ears are cold.
   C) Very loud sounds can damage your ears.

1.5 What type of input energy is used while the radio is playing?
   A) Sound
   B) Electric
   C) Heat

2. Look at the diagram below and answer the questions which follow.

2.1 Provide a label for the following letters:
   2.1.1 B
   2.1.2 C

2.2 Which letters show us the following:
   2.2.1 Ossicle bones
   2.2.2 Cochlear

3. Use the words in the word box below to complete the following sentences. Write the word only.

<table>
<thead>
<tr>
<th>higher</th>
<th>lower</th>
<th>pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>noise pollution</td>
<td>vibrates</td>
<td>energy</td>
</tr>
</tbody>
</table>

3.1 Sound occurs (happens) when something _________.
3.2 Sound waves travel because they have _________.
3.3 The _________ of a sound is how high or low the sound is.
3.4 The sound will be _________ if you pull a string tight.
3.5 Loud unwanted sounds are called _________.

4. State if the sentences are True or False. Write the word True or False only.

4.1 A guitar and a trumpet are both string instruments.
4.2 Vibrations travel through metal and wood.
4.3 Working in a noisy environment over a long period of time will not affect your hearing.
4.4 Years ago some people believed that the surface of the Earth was flat.
Section B: Planet Earth and Beyond

1. Match the words in List A with their meaning in List B. Write the number and letter ONLY.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>A) The force that pulls something down towards Earth.</td>
</tr>
<tr>
<td>Telescope</td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>B) A person who travels in space.</td>
</tr>
<tr>
<td>Astronaut</td>
<td></td>
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<tr>
<td>1.3</td>
<td>C) A large object like Earth and Mars that moves around a star.</td>
</tr>
<tr>
<td>Planet</td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>D) An instrument that is used to see objects that are far away.</td>
</tr>
<tr>
<td>Orbit</td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>E) The gas around a planet.</td>
</tr>
<tr>
<td>Gravity</td>
<td></td>
</tr>
<tr>
<td>1.6</td>
<td>F) The path followed when one object moves around another object in space.</td>
</tr>
<tr>
<td>Atmosphere</td>
<td></td>
</tr>
</tbody>
</table>

(6)

2. Read the questions below carefully and answer to show your understanding.

2.1 Write down TWO reasons why there are no living things on the moon. (2)

2.2 Which is bigger, the Sun or the Earth. (1)

2.3 What are stars made out of? (1)

2.4 Why do we say that the Sun is important for life on Earth? (2)

2.5 Write the names of the planets in order, beginning from the one closest to the Sun? (4)

2.6 Explain why Pluto is known as a "Dwarf Planet." (2)

3. Look at the diagram below and answer the questions which follow.

3.1 What is the season when the Earth is at the position labelled A, B, C and D on its orbit? Write the letter and season. (2)

3.2 How will the temperature change as the Earth moves from position A to position B? (1)

3.3 What happens to the leaves on some trees when the Earth is in position B? (1)

3.4 Where in its orbit is the Earth today? Give the letter only. (1)

TOTAL 40