

BAHAGIAN A SECTION A

Jawab semua soalan.
Answer all questions.

- 1 Antara padanan berikut, yang manakah benar?
Which of the following matches is correct?

	Bahan berasid Acidic substance	Bahan beralkali Alkaline substance
A	Sabun mandi Soap	Bateri kereta Car battery
B	Detergen Detergent	Perapi rambut Hair conditioner
C	Jeruk Pickles	Sos tomato Tomato ketchup
D	Minuman bergas Carbonated drinks	Sabun mandi Soap

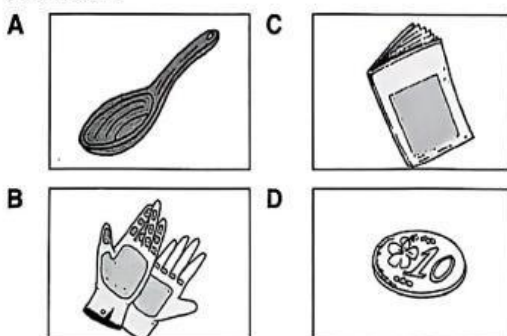
- 2 Antara berikut, yang manakah bukan sumber tenaga?
Which of the following is not an energy source?

- | | |
|-----------------------|----------------------------|
| A Matahari
The Sun | C Biojisim
Biomass |
| B Ombak
Wave | D Gunung berapi
Volcano |

- 3 Apakah daya yang dihasilkan apabila sesuatu objek menyentuh sesuatu permukaan?
What is the force produced when an object is in contact with a surface?

- | | |
|------------------------------------|---------------------------------------|
| A Daya normal
Normal force | C Daya apungan
Buoyant force |
| B Daya geseran
Frictional force | D Daya graviti
Gravitational force |

- 4 Antara objek berikut, yang manakah merupakan konduktor haba yang baik?
Which of the following objects is a good heat conductor?



- 5 Padanan yang manakah betul tentang perbezaan antara suhu dengan haba?
Which comparison between heat and temperature is correct?

	Suhu Temperature	Haba Heat
A	Merupakan sejenis tenaga A type of energy	Bukan sejenis tenaga Not a type of energy
B	Digunakan untuk mengukur darjah kepanasan sesuatu objek Used to measure the degree of hotness of an object	Digunakan untuk mengukur darjah kesejukan sesuatu objek Used to measure the degree of coldness of an object
C	Diukur dalam unit Joule Measured in unit Joule	Diukur dalam unit Kelvin Measured in unit Kelvin
D	Dipengaruhi oleh darjah pergerakan zarah-zarah di dalam sesuatu bahan Affected by the degree of movement of the particles in a matter	Dipengaruhi oleh jenis bahan Affected by type of material

- 6 Bintang yang bersaiz sangat besar dikenali sebagai
The very large size star is known as

- A bintang kerdil putih
white dwarf star
B bintang neutron
neutron star
C bintang raksasa merah
red giant star
D bintang super raksasa
supergiant star

- 7 _____ ialah suatu ruang supermasif yang tidak membenarkan sebarang jirim terlepas darinya.

_____ is a supermassive space that does not allow any matter to escape from it.

- | | |
|--------------------------|------------------------------|
| A Supernova
Supernova | C Lohong hitam
Black hole |
| B Nebula
Nebulae | D Neutron
Neutron |

- 8 Maklumat di bawah menunjukkan nilai pH beberapa jenis bahan.
The information below shows the pH value of few substances.

Bahan Substance	pH
Larutan ammonia Ammonia solution	11
Peluntur Bleach	12.6
Serbuk penaik Baking powder	9
Air laut Sea water	8

Susunan bahan-bahan di atas mengikut kekuatan menaik kealkalian yang manakah betul?

Which arrangement of the substances above according to the increasing strength of alkali is correct?

- A Peluntur, serbuk penaik, air laut, larutan ammonia
Bleach, baking powder, sea water, ammonia solution
- B Peluntur, larutan ammonia, serbuk penaik, air laut
Bleach, ammonia solution, baking powder, sea water
- C Air laut, serbuk penaik, larutan ammonia, peluntur
Sea water, baking powder, ammonia solution, bleach
- D Air laut, larutan ammonia, serbuk penaik, peluntur
Sea water, ammonia solution, baking powder, bleach

- 9 Antara objek berikut, yang manakah menggunakan konsep elektromagnet?
Which of the following objects uses the concept of electromagnet?

- A Sel kering
Dry cell
- B Kad kredit
Credit card
- C Pemanas elektrik
Electric heater
- D Stetoskop
Stethoscope

- 10 Permukaan yang _____ dan _____ dapat memantulkan bunyi dengan baik.
_____ and _____ surfaces are good reflector of sound.

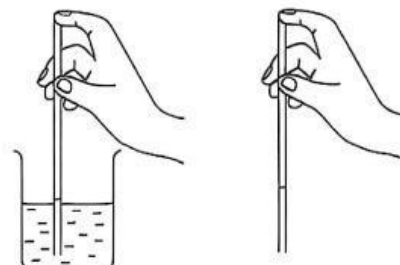
- A keras; kasar
hard; rough
- B keras; licin
hard; smooth
- C lembut; kasar
soft; rough
- D lembut; licin
soft; smooth

- 11 Apakah alat yang dapat membantu mengatasi had pendengaran manusia?

What is the device that can help to overcome the human limitations of hearing?

- A Radio
Radio
- B Periskop
Periscope
- C Stetoskop
Stethoscope
- D Kanta pembesar
Magnifying glass

- 12 Samantha melakukan penyiasatan seperti yang ditunjukkan dalam rajah di bawah. Apabila dia mengangkat penyedut minuman, didapati air di dalam penyedut minuman tidak keluar.
Samantha conducted an investigation as shown in the diagram below. When she lifted the straw, the water in the straw did not flow out.



Bagaimanakah situasi itu boleh berlaku?
How the situation occurs?

- A Air di dalam penyedut minuman tersangkut pada dinding penyedut minuman
Water in the straw stuck at the wall of the straw
- B Air di dalam penyedut minuman membeku
Water in the straw is frozen
- C Tekanan udara yang tinggi di dalam penyedut minuman menolak air di dalam penyedut minuman
The high air pressure in the straw pushes the water in the straw
- D Tekanan atmosfera di bawah penyedut minuman menyeimbangkan tekanan udara di dalam penyedut minuman
The atmospheric pressure below the straw balance up the air pressure in the straw

- 13 Tarikan graviti sesuatu planet dipengaruhi oleh _____ planet itu.
Gravitational pull of a planet is affected by the _____ of the planet.

- A saiz
size
- B ketumpatan
density
- C suhu
temperature
- D kelajuan
speed

- 14 Antara ciri-ciri berikut, yang manakah boleh digunakan untuk mengelaskan bintang?
Which of the following characteristics can be used to classify stars?

- I Warna
Colour
- II Ketebalan
Thickness
- III Jarak
Distance
- IV Kecerahan
Brightness
- A I, II dan III
I, II and III
- B I, II dan IV
I, II and IV
- C I, III dan IV
I, III and IV
- D II, III dan IV
II, III and IV