Pentaksiran Sumatif

Ujian Akhir Sesi Akademik (UASA)

Bahagian A / *Section A*
[20 markah / 20 *marks*]

Jawab **semua** soalan.
*Answer **all** questions.*

1. Apakah persamaan antara amfibia dengan reptilia?
What is the similarity between amphibians and reptiles?

A Melakukan persenyawaan luar
Undergo external fertilisation

B Menghasilkan telur yang bercangkerang
Produce egg with a shell

C Boleh hidup di darat dan di air
Can live on land and in water

D Bersisik dan berkulit keras
Have scales and hard skin

2. Dalam siratan makanan di bawah, haiwan yang manakah merupakan pengguna primer?
In the food web below, which animal is the primary consumer?

Padi *Paddy*	→	Siput *Snail*	→	Ular *Snake*	→	Burung gagak *Crow*

A Padi
Paddy

B Ular
Snake

C Siput
Snail

D Burung gagak
Crow

3. Proses yang manakah tidak mengekalkan kandungan karbon dioksida dan oksigen di dalam udara?
Which process does not maintain the content of carbon dioxide and oxygen in the air?

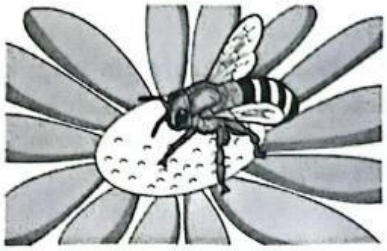
A Fotosintesis
Photosynthesis

B Respirasi
Respiration

C Pereputan
Decomposition

D Penyahtinjaan
Defaecation

4. Rajah 1 menunjukkan seekor lebah sedang menghisap madu dari sekuntum bunga.
Diagram 1 shows a bee sucking honey from a flower.



Rajah 1 / *Diagram 1*

Apakah jenis interaksi antara lebah dengan bunga?
What is the type of interaction between the bee and the flower?

A Mutualisme
Mutualism

B Komensalisme
Commensalism

C Parasitisme
Parasitism

D Mangsa-pemangsa
Prey-predator

5. Apakah jenis ujian yang boleh menentukan kandungan zat makanan kekacang?
What type of test can be used to determine the nutrient of nuts?

A Ujian iodin
Iodine test

B Ujian Benedict
Benedict's test

C Ujian Millon
Millon's test

D Ujian alkohol-emulsi
Alcohol-emulsion test

6. Pernyataan yang manakah benar mengenai jangkitan virus COVID-19?
Which statement is true about the infection of COVID-19?

A Merupakan suatu penyakit berjangkit genetik
It is a genetic infectious disease

B Virus boleh berjangkit melalui makanan
The virus can be transmitted through food

C Vektor jangkitan ialah nyamuk
Vector of transmission is mosquito

D Pengambilan vaksin COVID-19 merupakan keimunan aktif
COVID-19 vaccination is an active immunisation

7. Antara berikut, pernyataan yang manakah benar mengenai air?
Which of the following statements is/are true about water?

I Air terdiri daripada dua atom oksigen dan satu atom hidrogen
Water consists of two oxygen atoms and one hydrogen atom

II Komposisi air boleh diuraikan melalui proses elektrolisis
Water composition can be extracted through electrolysis

III Air yang mengandungi pasir boleh menaikkan takat didihnya
Water that contains sand can increase its boiling point

IV Air boleh wujud dalam bentuk pepejal, cecair dan gas
Water can exist in the form of solid, liquid and gas

A II sahaja
II only

B I dan II
I and II

C II dan IV
II and IV

D I, II dan III
I, II and III

8. Cara-cara menyidai pakaian yang manakah mempercepatkan kadar penyejatan?
Which method of drying cloths will speed up the rate of evaporation?

A

C

B

D

9. Pernyataan yang manakah tidak benar mengenai cuka?
Which of the following statements is not true about vinegar?

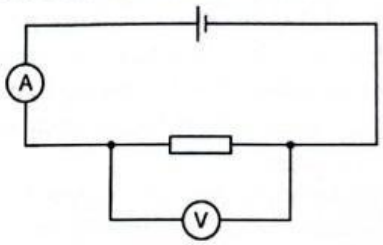
A Nilai pH cuka ialah 5
The pH value of vinegar is 5

B Cuka menukarkan kertas litmus biru ke merah
Vinegar changes blue litmus paper to red

C Cuka menukarkan penunjuk semesta dari merah ke biru
Vinegar changes universal indicator from red to blue

D Cuka bertindak balas dengan logam dan menghasilkan gas hidrogen
Vinegar reacts with metal to produce hydrogen gas

10. Rajah 2 menunjukkan suatu litar elektrik.
Diagram 2 shows an electric circuit.

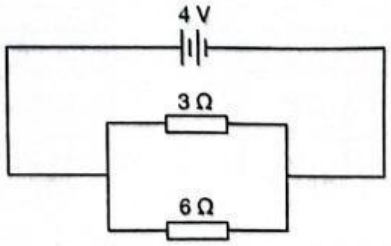


Rajah 2 / *Diagram 2*

Apabila perintang 5 Ω disambung kepada litar, bacaan voltmeter ialah 1.5 V. Hitung bacaan ammeter.
When a 5 Ω resistor is connected to the circuit, the reading of the voltmeter is 1.5 V. Calculate the reading of the ammeter.

A 0.3 A
B 3.33 A
C 6.5 A
D 7.5 A

11. Rajah 3 menunjukkan suatu litar elektrik.
Diagram 3 shows an electric circuit.

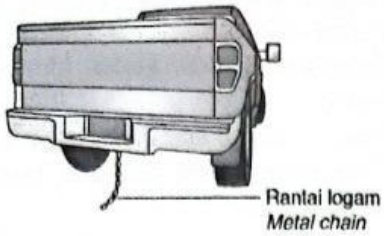


Rajah 3 / *Diagram 3*

Berapakah jumlah rintangan berkesan bagi litar di atas?
What is the effective resistance in the circuit above?

A 0.5 Ω
B 2 Ω
C 4 Ω
D 9 Ω

12. Rajah 4 menunjukkan rantai logam yang disambungkan di belakang sebuah kenderaan.
Diagram 4 shows a metal chain which is attached to the back of a vehicle.



Rajah 4 / *Diagram 4*

Apakah fungsi rantai logam tersebut?
What is the function of the metal chain?

A Mengelakkan kemalangan jalan raya
Avoid road accident

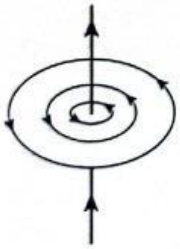
B Mengalirkan cas-cas elektrik ke Bumi
Flow the electrical charges to the Earth

C Mengalirkan cas-cas elektrik ke kenderaan
Flow the electrical charges to the vehicle

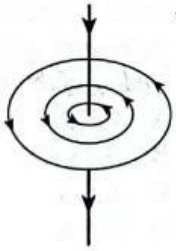
D Memaksimumkan pengaliran cas-cas elektrostatik bagi menambahkan kelajuan kenderaan
Maximise the flow of electrostatic charges to increase the speed of the vehicle

13. Antara berikut, lukisan medan magnet yang manakah benar?
Which of the following magnetic field drawing is correct?

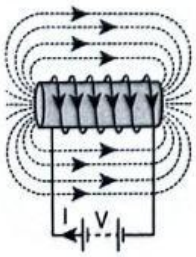
I



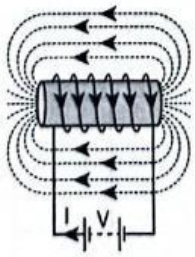
III



II



IV



A I dan III
I *and* III

B I dan IV
I *and* IV

C II dan III
II *and* III

D II dan IV
II *and* IV

14. Alat pengukuran yang manakah digunakan untuk mengukur daya?
Which instrument is used to measure force?

A

C

B

D

15. Rajah 5 menunjukkan sebuah objek tenggelam di dalam air.
Diagram 5 shows an object sinks in the water.

Rajah 5 / *Diagram 5*

Apakah hubungan antara berat objek, *W* dengan daya apungan, *F* yang bertindak ke atas objek tersebut?
What is the relationship between the weight, W and the buoyant force, F acting on the object?

A $W = F$
B $W > F$
C $W < F$
D $W \leqslant F$

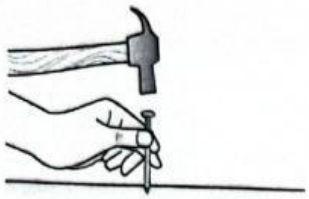
16. Antara berikut, padanan yang manakah menunjukkan kelas tuas dan contoh tuas dengan betul?
Which of the following match show the class of lever and example of lever correctly?

	Tuas kelas pertama *First class lever*	**Tuas kelas kedua** *Second class lever*	**Tuas kelas ketiga** *Third class lever*
A	Joran *Fishing rod*	Gunting *Scissors*	Tangan *Arm*
B	Gunting *Scissors*	Forsep *Forceps*	Penyapu *Broom*
C	Pembuka tin *Can opener*	Pemecah kekeras *Nutcracker*	Tangan *Arm*
D	Forsep *Forceps*	Pemecah kekeras *Nutcracker*	Tangan *Arm*

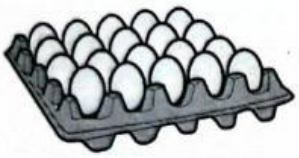
17. Antara berikut, yang manakah merupakan aplikasi tekanan tinggi dalam kehidupan harian?
Which of the following is an application of high pressure in our daily life?

A

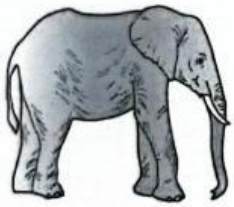
B



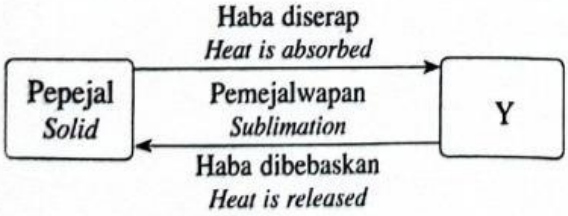
C



D



18. Rajah 6 menunjukkan perubahan suatu jirim.
Diagram 6 shows a matter changes.



Rajah 6 / *Diagram 6*

Apakah Y?
What is Y?

A Wap air
Water vapour

B Cecair
Liquid

C Pepejal
Solid

D Gas
Gas

19. Apakah faktor yang mempengaruhi kekuatan bunyi yang dihasilkan?
What factor affects the loudness of sound produced?

A Kelangsingan bunyi
Pitch of sound

B Nilai Hertz bunyi
Hertz value of sound

C Frekuensi gelombang bunyi
Frequency of sound wave

D Amplitud gelombang bunyi
Amplitude of sound wave

20. Susun planet-planet di bawah mengikut jarak daripada Matahari dalam urutan menurun.
Arrange the planets below according to the distance from the Sun in descending order.

P – Neptun
Neptune

Q – Musytari
Jupiter

R – Zuhal
Saturn

S – Bumi
Earth

T – Zuhrah
Venus

U – Marikh
Mars

V – Utarid
Mercury

W – Uranus
Uranus

A P, Q, R, S, T, U, V, W
B W, R, S, T, Q, U, V, P
C W, Q, P, U, R, S, T, V
D P, W, R, Q, U, S, T, V