Bahagian A. ***Section A.***

[8 Markah/ ***8 Marks*****]**

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

1. Antara yang berikut, yang manakah definisi sains yang terbaik?
   Which of the following is the best definition of science?

   A. Sains ialah kajian tentang objek di alam semesta.
      Science is the study of objects in the universe.
   B. Sains ialah fenomena semula jadi yang berlaku di sekeliling kita.
      Science is the natural phenomenon that occurs around us.
   C. Sains ialah pengetahuan yang diperoleh daripada kajian tentang manusia.
      Science is the knowledge gained from the study on human.
   D. Sains ialah pengetahuan yang melibatkan pemerhatian dan kajian yang sistematik terhadap fenomena semula jadi.
      Science is the knowledge that involves observations and systematic investigation on natural phenomena.

2. Antara kuantiti fizik berikut, yang manakah unit S.I.?
   Which of the following physical quantities is an S.I. unit?

   A Kelvin — *Kelvin*
   C Gram — *Gram*
   B Minit — *Minute*
   D Kilometer — *Kilometre*

3. Antara pernyataan berikut, yang manakah menunjukkan bahawa proses respirasi sel dan proses fotosintesis saling melengkapi?
   Which of the following statements shows that the cell respiration and photosynthesis processes complement each other?

   A Oksigen digunakan dalam proses fotosintesis.
   Oxygen is used in the process of photosynthesis.

   B Oksigen digunakan untuk mengoksidakan glukosa dalam proses respirasi.
   Oxygen is used to oxidise glucose in the respiration process.

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C Karbon dioksida yang dibebaskan melalui fotosintesis digunakan oleh organisma lain.
Carbon dioxide released through the photosynthesis is used by other organisms.

D Oksigen yang dibebaskan melalui process respirasi digunakan oleh tumbuhan.
Oxygen released through the respiration process is used by plants.

4. Antara yang berikut, yang manakah organisma multisel?
Which of the following is a multicellular organism?

A *Paramecium* C *Amoeba*
B *Chlamydomonas* D *Hydra*

5. Antara sel berikut, yang manakah mengandungi mineral untuk membina hemoglobin?
Which of the following cells contains mineral to build haemoglobin?

A Sel sperma
Sperm cell
C Sel darah putih
White blood cell

B Sel darah merah
Red blood cell
D Sel ovum
Ovum cell

6. Antara yang berikut, yang manakah proses yang melibatkan kehilangan air ke persekitaran oleh tumbuhan?
Which of the following processes involves water loss to the surroundings by plants?

A Penyejatan
Evaporation
B Respirasi
Respiration
C Transpirasi
Transpiration
D Fotosintesis
Photosynthesis

7. Berapa lamakah tempoh satu kitar haid?
How long is one cycle of menstruation?

A 7 Hari / *7 days*
B 14 Hari / *14 days*
C 28 Hari / *28 days*
D 44 Hari / *44 days*

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8. Antara yang berikut, yang manakah merupakan kaedah mencegah kehamilan?
Which of the following is the method of contraception?

A Pembedahan terhadap wanita yang mengalami masalah tiub Falopio tersumbat.
Surgery on a woman with a blockage in Fallopian tubes.
B Rawatan hormon.
Hormone treatment.
C Persenyawaan *in vitro.*
In vitro fertilisation.
D Vasektomi.
Vasectomy.

Bahagian B. *Section B.*

[8 Markah/ *8 Marks*]

Jawab semua soalan. *Answer all questions.*

1. (a) Padankan bidang sains berikut dengan penerangan yang sesuai.

Match the following fields of science with the suitable explanation.

Bidang Sains ***Field of science***
(a) Botani *Botany*
(b) Meteorologi *Meteorology*

Penerangan ***Explanation***
Kajian tentang perubahan cuaca *The study of changes in the weather*
Kajian tentang tumbuhan *The study of plants*

[2 Markah /2 *Marks*]

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(b) Nyatakan kerjaya dalam sains berdasarkan gambar berikut.
Stated the careers in science based on the following pictures.

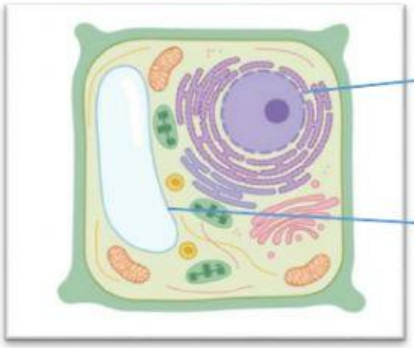
(a)

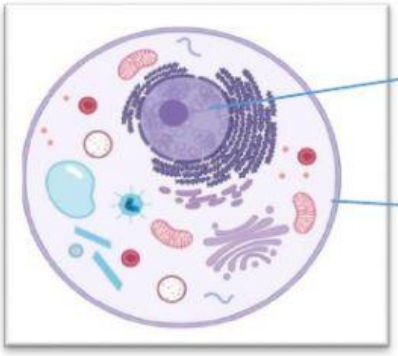
(b)

[2 Markah / 2 *Marks*]

(c) Labelkan struktur sel haiwan dan sel tumbuhan berikut.

Label the structures of the following animal cell and plant cell.





[4 Markah / *4 Marks*]

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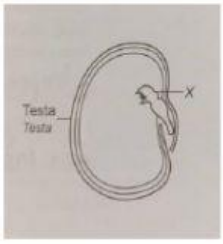
Bahagian C. *Section C.*

[4 Markah / 4 Marks]

Jawab semua soalan. *Answer all questions.*

1 (a) Rajah di bawah menunjukkan keratan bujur satu biji benih.

The diagram below shows the longitudinal section of a seed.



(i) Namakan X.

Name X.

.....

[1 Markah /*1 Marks*]

(ii) Nyatakan fungsi X.

State the function of X.

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[1 Markah / *1 Marks*]

(b) Pak Abu jatuh sakit. Dia meminta anaknya, Rahman menyimpan biji benih hitam di dalam bekas kedap udara. Dia berhasrat untuk menyemai biji benih tersebut apabila dia sihat kelak. Wajarkan tindakan Pak Abu tersebut.

Pak Abu has fallen sick. He asked his son, Rahman to store the bean sprout seeds in an airtight container. He intends to sow the seeds when he is healthy. Justify Pak Abu's action.

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[2 Markah /2 *Marks*]

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