2 Which of the following cells has a high number of rough endoplasmic reticulum?
Antara berikut, sel yang manakah mempunyai bilangan jalinan endoplasma kasar yang sangat tinggi?

A Cheek cells
Sel pipi
B Pancreas cells
Sel pankreas
C Muscle cells
Sel otot
D Nerve cells
Sel saraf

3 The diagram 2 shows the condition of a plant cell immersed in 30% sucrose solution for an hour.
Rajah 2 menunjukkan keadaan sel tumbuhan yang telah direndam di dalam larutan sukrosa 30% selama satu jam.

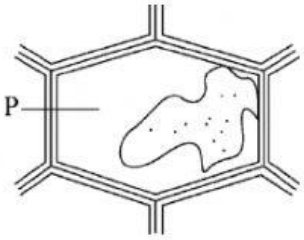

Diagram 2
Rajah 2

What is contained in P?
Apakah yang terkandung di dalam P?

A Distilled water
Air suling
B Cell sap
Sel sap
C Sucrose solution
Larutan sukrosa
D Cytoplasm
Sitoplasma

4 The diagram 3 shows a phospholipid molecule.
Rajah 3 menunjukkan molekul fosfolipid.

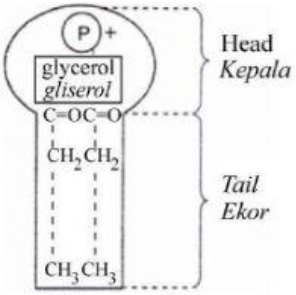

Diagram 3
Rajah 3

Which character of molecule is allowed to pass through the tail end of the phospholipid molecule easily ?
Ciri molekul yang manakah dibenarkan melalui bahagian hujung ekor molekul fosfolipid itu dengan mudah?

A	Hydrophobic *Hidrofobik*	**B**	Hydrophyllic *Hidrofilik*
C	*Charged* *Tercas*	**D**	Small *Kecil*

5 The diagram 4 shows a plant strip immersed in solution X for 30 minutes.
Rajah 4 menunjukkan satu jalur tumbuhan direndam di dalam larutan X selama 30 minit.

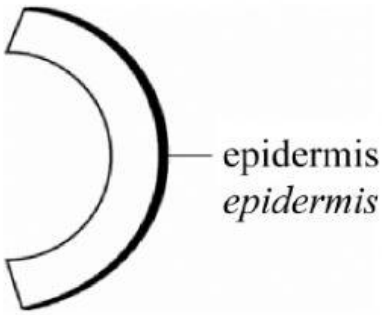

Diagram 4
Rajah 4

What is solution X?
Apakah larutan X?

A Sucrose solution 5%
Larutan sukrosa 5%
B Sucrose solution 30%
Larutan sukrosa 30%
C Salt solution 1%
Larutan garam 1%
D Distilled water
Air suling

6 What are the elements that made up protein ?
Apakah unsur-unsur yang membentuk protein ?

A Carbon, Hydrogen And Oxygen
Karbon, Hidrogen Dan Oksigen
B Carbon, Hydrogen, Oxygen And Nitrogen
Karbon, Hidrogen, Oksigen Dan Nitrogen
C Carbon, Oxygen And Nitrogen
Karbon, Oksigen Dan Nitrogen
D Nitrogen And Hydrogen
Nitrogen Dan Hidrogen

7 In the production of leather goods, what enzyme is used to remove the fur from the skin of animals?
Di dalam penghasilkan barang-barang kulit, enzim apakah yang digunakan untuk menyingkirkan bulu daripada kulit binatang?

A Amylase
Amilase
B Lipase
Lipase
C Protease
Protease
D Cellulase
Selulase

8. Which process will broken down the excess amino acids in the body ?
Apakah proses yang akan menguraikan asid amino yang berlebihan di dalam badan ?

A Hydrolysis
Hidrolisis
B Reduction
Pengurangan
C Deamination
Deaminasi
D Decomposition
Penguraian

9 Cellulose is required to form a substance P and lipid to form a substance Q. What are P and Q?
Selulosa diperlukan untuk membentuk satu bahan P dan lemak untuk membentuk satu bahan Q. apakah bahan P dan Q?

	P *P*	Q *Q*
A	Cell wall *Dinding sel*	Plasma membrane *Membran plasma*
B	Protoplasm *Protoplasma*	Plasma membrane *Membran plasma*
C	Cell wall *Dinding sel*	Protoplasm *Protoplasma*
D	Protoplasm *Protoplasma*	Cell wall *Dinding sel*

10. *Diagram 5 shows an animal cell undergoing mitotic cell division.*
Rajah 5 menunjukkan sel haiwan sedang menjalani pembahagian sel secara mitosis.

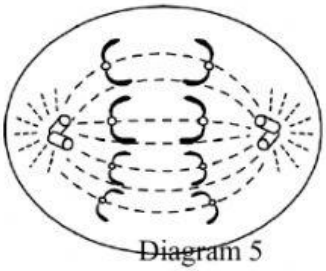

Diagram 5
Rajah 5

What is the stage of the mitotic cell division?
Apakah peringkat pembahagian sel secara mitosis itu?

A *Prophase*
Profasa

B *Anaphase*
Anafasa

C *Metaphase*
Metafasa

D *Telophase*
Telofasa

11. *Diagram shows a process occur in Prophase I. Which of the following occurs during the process?*
Rajah menunjukkan proses yang berlaku di dalam Profasa I. Antara berikut, yang manakah berlaku semasa proses ini?

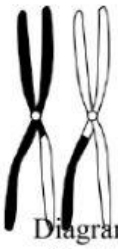

Diagram 6
Rajah 6

A *Cytokinesis*
Sitokinesis

B *Chiasmata*
Kiasmata

C *Crossing over*
Pindah silang

D *Crossing genetic*
Pindah genetik