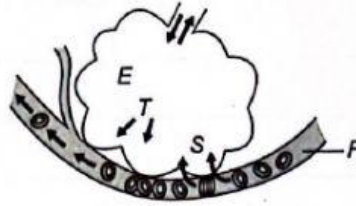


- 5 (a) Rajah di bawah menunjukkan pertukaran gas dalam sistem respirasi manusia.
The diagram below shows the gaseous exchange in the human respiratory system.



Pertukaran gas berlaku antara alveolus dengan kapilari darah.

The gaseous exchange takes place between the alveolus and the blood capillaries.

- (i) Berdasarkan rajah di atas, namakan gas
Based on the above diagram, name gas

S: _____

T: _____

[2 markah/marks]

- (ii) Proses resapan yang berlaku semasa pertukaran gas dipengaruhi oleh kepekatan gas S dan gas T. Bandingkan kepekatan gas di kawasan E dan F.
The diffusion process that occurs during gaseous exchange is affected by the concentration of gas S and gas T. Compare the concentration of the gases in areas E and F.

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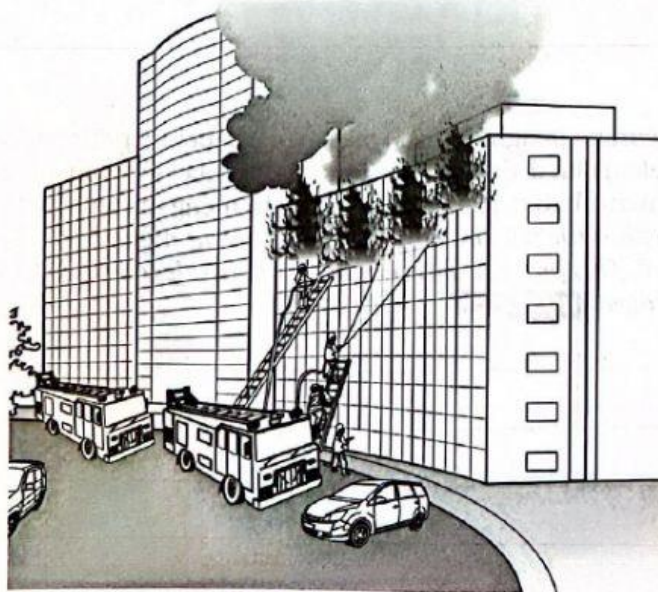
E: _____

F: _____

[2 markah/marks]

- (b) Rajah di bawah menunjukkan suasana semasa kebakaran sebuah bangunan. Kebakaran bermula dari tingkat atas bangunan itu. Mangsa kebakaran sempat menyelamatkan diri kecuali seorang wanita yang telah ditemui oleh pasukan bomba dalam keadaan tidak sedarkan diri di tangga tingkat satu bangunan itu.
The diagram below shows the scene of a building on fire. The fire started from the top floor of the building. The fire victims managed to escape except a woman who was found unconscious by the firemen at the staircase on the first floor of the building.

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- (i) Nyatakan bahan yang terhasil akibat kebakaran yang mungkin menyebabkan wanita itu tidak sedarkan diri.

State the substance produced from the fire which may have caused the woman to become unconscious.

[1 markah/mark]

- (ii) Jelaskan bagaimana bahan yang dinyatakan dalam 5(b)(i) boleh mempengaruhi komposisi oksigen dalam badan wanita itu sehingga menyebabkannya tidak sedarkan diri.

Describe how the substance stated in 5(b)(i) can affect the oxygen composition in the woman's body to the extent of causing her to become unconscious.

KBAT Mengenaliti

[3 markah/marks]

- 6 (a) Pemasangan poster ini bertujuan untuk mengurangkan kesan buruk rokok terhadap perokok pasif.

The installation of the poster aims to reduce bad effects of smoking to passive smokers.



- (i) Siapakah perokok pasif?
Who are the passive smokers?

[1 markah/mark]

- (ii) Senaraikan **dua** bahan yang terkandung dalam asap rokok yang berbahaya kepada perokok pasif.

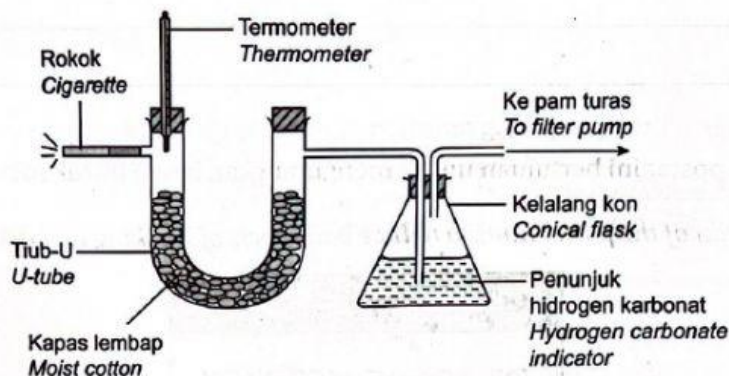
List two substances contained in cigarette smoke that are harmful to the passive smokers.

[2 markah/marks]

- (iii) Seorang ibu yang sedang hamil duduk di samping suaminya yang sedang merokok. Berikan **satu** kesan asap rokok terhadap fetus di dalam uterus wanita itu.
A pregnant mother was sitting next to her husband who was smoking a cigarette. Give one effect of the cigarette smoke to the foetus in her womb.

[2 markah/marks]

- (b) Kamal telah menjalankan eksperimen untuk mengenal pasti kesan merokok terhadap sistem respirasi manusia. Rajah di bawah menunjukkan susunan radas yang digunakan dalam eksperimen itu.
Kamal conducted an experiment to identify the effects of smoking on the human respiratory system. The diagram below shows the apparatus set-up used in the experiment.



- (i) Lengkapkan pemerhatian dalam jadual di bawah.
Complete the observation in the table below.

Pemerhatian Observation	Sebelum aktiviti Before activity	Selepas aktiviti After activity
Warna wul kapas Colour of cotton wool	Putih White	Kuning Yellow
Suhu Temperature	27 °C	

[1 markah/mark]

- (ii) Berdasarkan pemerhatian pada 6(b)(i), bagaimanakah asap rokok boleh membahayakan sistem respirasi manusia?
Based on the observation in 6(b)(i), how does cigarette smoke harm the human respiratory system?

[2 markah/marks]