

6355/1
English
for Science
and
Technology
Kertas 1
Ogos
2010
1 jam 15 minit



NAME :
CLASS :

**BAHAGIAN PENGURUSAN
SEKOLAH BERASRAMA PENUH DAN SEKOLAH KLUSTER
KEMENTERIAN PELAJARAN MALAYSIA**

**PEPERIKSAAN PERCUBAAN
SIJIL PELAJARAN MALAYSIA 2010**

**ENGLISH FOR SCIENCE AND TECHNOLOGY
Kertas 1
Satu jam 15 minit**

JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIBERITAHU

Arahan

- 1. Kertas soalan ini mengandungi **30** soalan.
- 2. Jawab **semua** soalan.

Instructions

- 1. *This question paper consists of 2 sections and 3 questions.*
- 2. *Answer all questions*

Section		Full Marks	Marks Obtained
A	Q1	10	
	Q2	10	
B		30	
TOTAL		50	

Section A
(20 marks)

Question 1

Read the following text and complete the given task.

Green plants absorb carbon dioxide from the atmosphere. As a result of photosynthesis, the carbon of the carbon dioxide is built into a carbohydrate and some of these are changed into the various compounds of a plant. When the plants are eaten by animals, the organic compounds or plant material is digested, absorbed and converted into animal tissues.

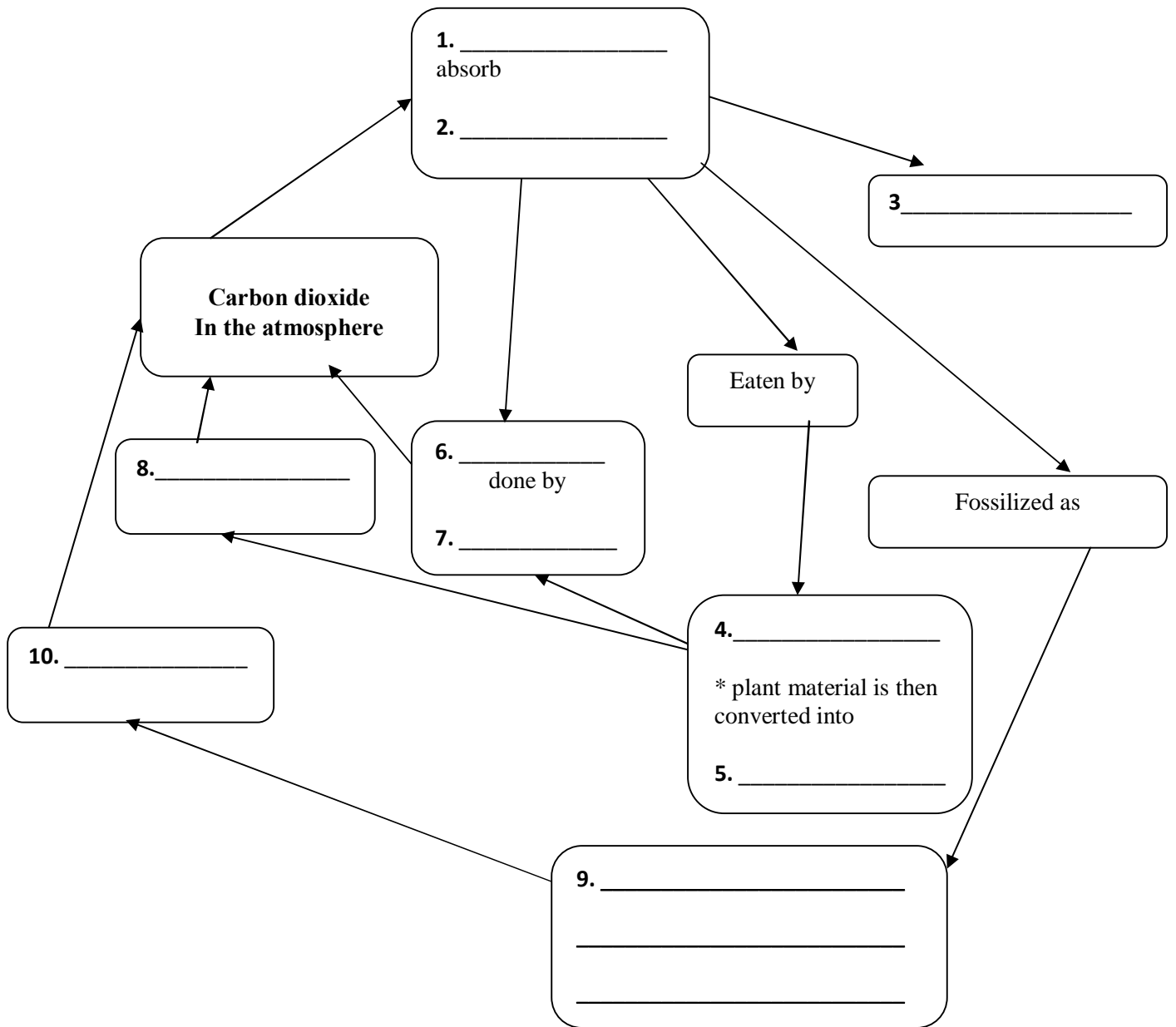
Plants and animals then, obtain energy by oxidizing the carbohydrates in their cells and in the process, release carbon dioxide and water back into the atmosphere. This process is called respiration. When the plant or animal dies, the organic matter of dead plants and animals is used by saprotrophs such as bacteria and fungi as a source of energy. The plant and animal remains are decomposed and their carbon compounds are turned into carbon dioxide which is once again returned to the atmosphere.

Carbon dioxide is also released into the atmosphere through combustion. Ancient prehistoric plants form deposits of coal, petroleum and natural gas and when these hydrocarbon fuels are burnt, the carbon is oxidized to carbon dioxide which goes back into the atmosphere. Hence, an atom of carbon which is in a molecule of carbon dioxide today, may be in a molecule of plant tissue tomorrow. And the cycle goes on.

(Source: Biology, D.G Macken)

Based on the information from the text, complete the graphic organizer below.

THE CARBON CYCLE



(10 marks)

Question 2

Read the following text and complete the given task.

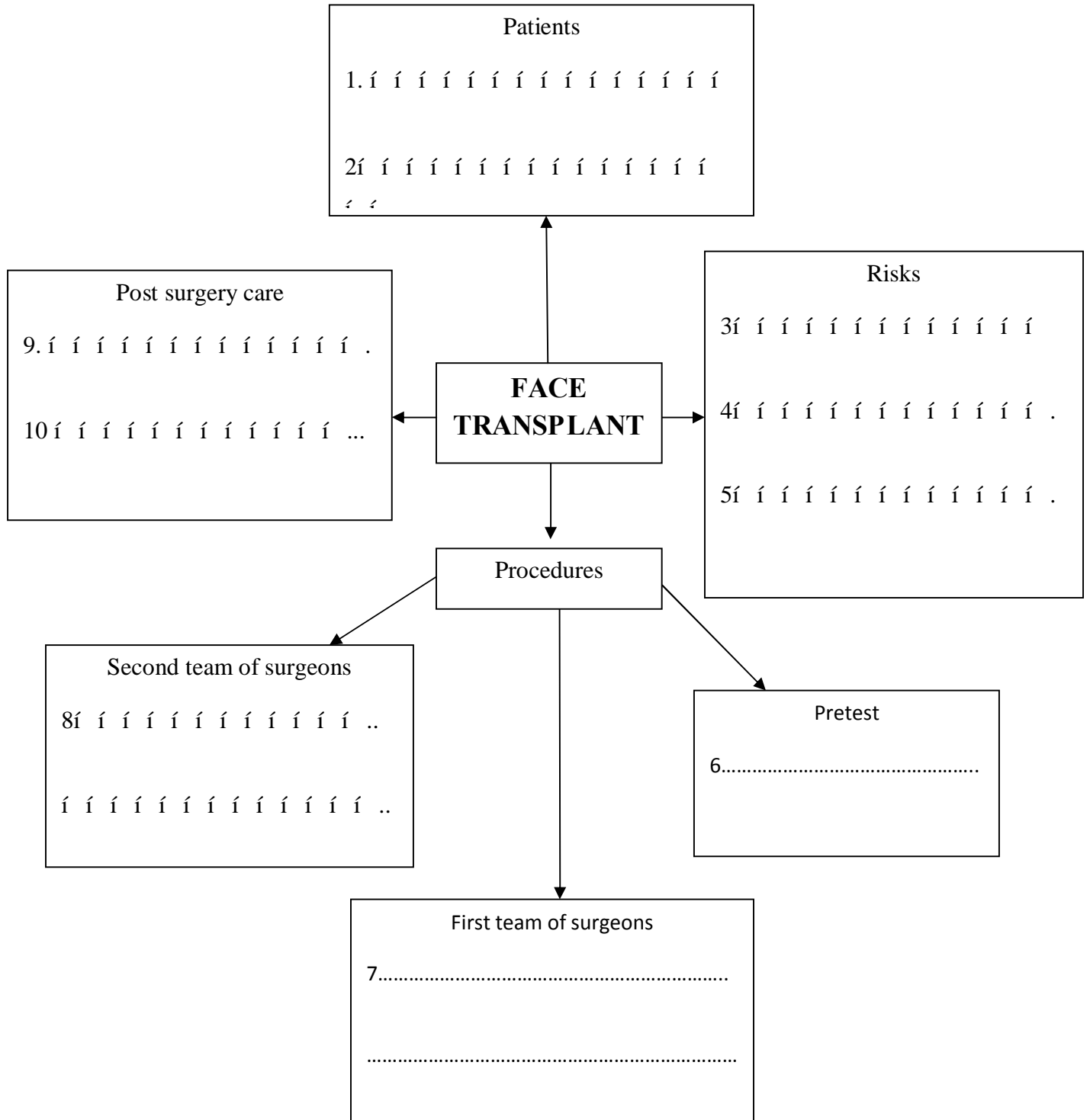
People with severe facial burns or whose face have been mutilated in accidents or mauled by dogs, can now have a second chance at a normal life through face transplants. The only concern in these operations is the ability of the patient to withstand the psychological trauma of having his new face resembles that of the donorø.

Recently, a team of British surgeons worked on the face transplant on a man with severe facial burns. The patient first underwent psychological screening to find out how well he has coped with his original disfigurement.

Having passed his test, he was then scheduled for an operation. Two teams of surgeons applied their skills during the 14-hour operation. The first team removed the skin grafts, nerves, underlying fat and blood vessels from the face of the patient. The second team removed the face of the donor with its underlying fat and blood vessels. The donorø face was then kept on ice, transported to the patient and sutured into place. The transplanted face was actually stretched over the patientø bone structure and facial muscles.

After the procedure, the patient was monitored closely and administered with immunosuppressant drugs to suppress the patientø own immune systems and prevent rejection. The surgery may also result in complications such as infections that would turn the new face black and require a second transplant or surgery.

Based on the information from the text, complete the graphic organizer below.



(10 marks)

Section B**(30 marks)**

Study the information given below.

SODIUM CHLORIDE	
Molecular formula	*NaCl
Properties	*Colourless, odourless, white crystalline solid
Production	*Evaporation of seawater *Seawater is boiled under reduced pressure *Mining of salt
Common uses	*Food additive *Household uses *Setting dyes in textile and fabric *Production of soap, detergents and other bath products *Production of other chemical products
Potential hazards	*High intake can lead to hypertension *Salt in fresh water could harm aquatic plants and animals.

Write a report on sodium chloride.

In your report, you **must**:

- * use **all** the information given
- * **elaborate** by giving relevant information
- * provide any other **additional information**

Your report **should not be less than 200 words**.**(30 marks)****KERTAS SOALAN TAMAT**