(times) SOALAN ULANGKAJI SPM 2011

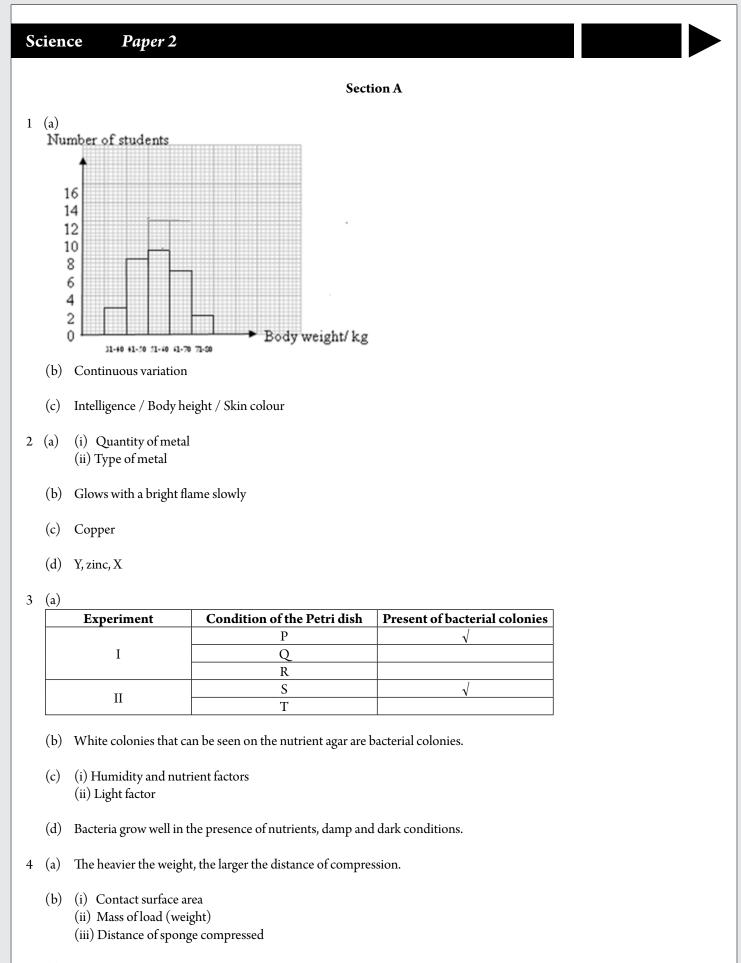
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Science

Paper 1

No	Ans								
1	C	11	В	21	А	31	D	41	С
2	D	12	С	22	В	32	D	42	D
3	D	13	С	23	D	33	D	43	С
4	A	14	В	24	В	34	В	44	С
5	C	15	С	25	D	35	С	45	В
6	C	16	D	26	С	36	D	46	D
7	C	17	D	27	В	37	С	47	В
8	A	18	В	28	В	38	С	48	А
9	C	19	В	29	D	39	В	49	С
10	A	20	С	30	С	40	В	50	С



(c) Pressure is a condition when the weight / mass of load increases, the distance of compression also increases.

Section B

- (a) (i) Pituitary gland(ii) Controls growth of muscles and bones
- (b) (i) Thyroid gland (ii) Low metabolic rate
- (c) Bloodstream

5

- 6 (a) Radioactive substances
 - (b) To handle the radioactive substances carefully and properly because the radioactive radiation emitted is harmful to living things and can threaten the balanced ecosystem
 - (c) Iodine-31 and cobalt-60
 - (d) Wearing a special protective outfit/Wearing a film badge
 - (e) Causes hair loss/loss of appetite/vomiting
 - (a) Increase the hardness of metal
 - (b) (i) Because the similar size of its atoms and the layers of atoms which slide over one another easily when force is applied
 (ii) The different sizes of foreign atoms prevent the layers of atoms from sliding over one another.
 - (c) (i) Tin and copper
 - (ii) Shiny surface, corrosion resistant
 - (iii) Making decorative items like photo frames
 - (a) X: Mesocarp/Pulp Y: Endocarp/Shell

(b) Kernel

- (c) (i) Extraction
 - (ii) Kills bacteria and fungi
 - (iii) Vitamin A / Vitamin E
- 9 (a) Microwave
 - (b) The antenna disc at the earth satellite station transmits and receives the information from the communication satellite.
 - (c) Not affected by change in weather- Can cover wide areas
 - (d) Enable television programmes to be broadcast live
 - (e) Military satellite

7

8

Section C

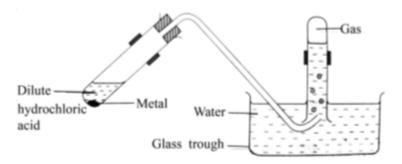
- 10 (a) Magnesium is more reactive than copper when reacting with dilute acid.
 - (b) (i) Aim: To study the reactivity of metals with dilute acid.
 - (ii) Variables:

Controlled variable: Volume and concentration of acid Manipulated variable: Type of metal Responding variable: Reactivity of metal

(iii) Apparatus:

Test tube, boiling tube, stopper, delivery tube, glass trough, tongs, lighted wooden splinter, Bunsen burner Materials: Magnesium ribbon, copper filings, dilute hydrochloric acid

- (iv) Procedure:
 - 1. Dilute acid is poured into a boiling tube.
 - 2. The apparatus is set up as shown below.



- 3. A magnesium ribbon is placed into the dilute acid in the boiling tube.
- 4. The gas released is tested with a lighted wooden splinter.
- 5. The experiment is repeated using copper filings.
- 6. Observations are recorded in a table.

Tabulation of data:

Metal	Observation
Magnesium	The reaction is very vigorous. The gas released produces a popping sound when tested with
	a lighted wooden splinter
Copper	No reaction

11 a) (i)	Boiling	Autoclaving		
	Can destroy microorganisms but cannot destroy	Can destroy microorganisms and spores		
	spores			
	Use lower temperature	Use high temperature		
(ii)	Anticeptics	Disinfectants		
		TT 1, 1:11 : ·		

1)	Anticeptics	Disinfectants
	Used to prevent bacterial growth	Used to kill microorganism
	Do not destroy body tissue	Destroy body tissue

(b) Common characteristics

- Contains weakened or dead pathogens
- Stimulates the body to produce antibodies

Initial concept

• A vaccine containing weakened or dead pathogens can stimulate the body to produce antibodies to kill the pathogens.

Example (can be prevented by vaccination)

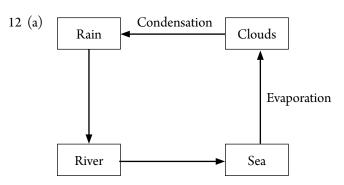
• Rubella

Example (cannot be prevented by vaccination)

• Malaria

Vaccine

BCG vaccine



Water from the sea will evaporate and gather to form clouds. Besides this, living organisms also release water into the atmosphere through combustion and respiratory processes. Water is also released into the atmosphere through transpiration in plants. Thus, the clouds will condense and eventually fall as rain. River water and underground streams flow into the sea.

(b) **Common effects**

- Soil erosion

- Destroys the habitats of flora and fauna

Concept

Opening of land and deforestation will destroy the habitats of organisms and cause soil erosion.

Method

Planting cover crops

Non-method

Construction

Reason

Cover crops will protect the soil from direct exposure to rainwater which could cause soil erosion.

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Analysis

[1511/1] [1511/2]

Science

		20	06			2007			2008			2009				2010				
CHAPTER			P2		P2		P2				P2				P2					
	P1	Sec A	Sec B	Sec C	P1	Sec A	Sec B	Sec C	P1	Sec A	Sec B	Sec C	P1	Sec A	Sec B	Sec C	P1	Sec A	Sec B	Sec C
1 Scientific Investigation	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
2 Body Coordination	3	-	1	-	3	-	1	-	3	-	1	-	3	-	1	-	4	1	1	-
3 Heredity and Variation	4	1	-	-	5	-	-	-	4	1	-	-	3	-	-	1	4	-	-	-
4 Matter and Substances	4	1	-	-	5	1	-	-	4	1	-	-	4	-	-	-	4	-	1	-
5 Energy and Chemical Changes	3	-	-	1	3	-	1	-	3	-	-	1	4	1	-	-	3	-	1	-
6 Nuclear energy	2	-	1	-	2	-	1	-	2	-	1	-	2	-	1	-	4	-	-	-
7 Light, Sight and Colour	5	-	-	1	3	1	-	-	5	-	-	1	3	1	-	-	3	-	-	1
8 Chemicals In Industry	2	-	1	-	2	-	-	1	2	-	1	-	3	-	1	-	2	-	-	1
9 Microorganisms and Their Effects on Living Thing	4	1	-	-	5	1	-	-	4	1	-	-	5	-	-	1	5	-	-	-
10 Nutrition	5	-	-	-	2	-	1	-	5	-	-	-	4	-	-	-	4	-	1	-
11 Perservation and Conservation of the Environment	4	-	-	-	2	-	-	-	4	-	-	-	4	-	-	-	2	-	-	1
12 Carbon Compound	3	-	1	-	4	1	-	-	3	-	1	-	3	1	-	-	3	2	-	-
13 Motion	4	1	-	-	5	-	1	-	4	1	-	-	5	-	-	1	5	1	-	-
14 Food Technology and Production	2	-	-	1	4	-	-	1	2	-	-	1	2	-	1	-	2	-	-	-
15 Synthetic Materials in Industry	3	-	-	-	3	-	-	-	3	-	-	-	2	-	1	-	2	-	-	-
16 Electronics and Information and Communication Technology (ICT)	2	-	1	-	2	-	-	1	2	-	1	-	3	1	-	-	3	-	1	-
TOTAL	50	4	5	3	50	4	5	3	50	4	5	3	50	4	5	3	50	4	5	3



SPM Revision Questions Courses to Consider Choosing Universities and Colleges Explaination on Courses

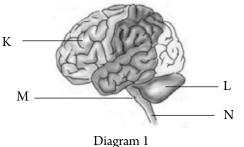
Tips from current Students **Explaination on Courses**

Paper 1 Science

52

This question paper consists of 50 questions. Each question is followed by four options A, B, C and D. Choose one correct answer for each question. Answer all the questions.

1 Diagram 1 shows the structure of the human brain.



- Which of the following parts of the brain can control actions like breathing, food digestion and heartbeat ?
- А Κ
- В L
- С М D Ν
- Which of the following endocrine glands will be affected if a person consumed a lack of iodine in his diet ?
 - А Testis
 - В Pancreas
 - С Adrenal gland
 - D Thyroid gland
- Which of the following comparisons is true about the 3 coordination between nervous system and endocrine system ?

	Nervous system	Endocrine system		
А	Consist of nerves	Consist of blood cells		
р	Leaves long-term effects in	Leaves short-term effects		
D	the body	in the body		
С	Has continuous response	Has immediate response		
D	Affects specific target areas	Affects non specific target		
	Affects specific target areas	areas		

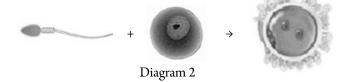
- Which of the following is true about sex determination ? 4
 - When an ovum is fertilised by a sperm which carries А the X chromosome, it will produce a female zygote.
 - When an ovum is fertilised by a sperm which carries В the XY chromosomes, it will produce a male zygote.
 - С The sex of a child is determined by the type of sex chromosome carried by the ovum.
 - D The sex of a child is determined by the number of chromosomes in a sperm.



5 How many chromosomes can be found in the nucleus of a child's cheek cell who suffers from Down's Syndrome ?

[1511/1]

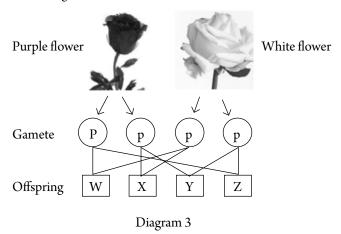
- А 45
- В 46
- С 47 D 48
- Diagram 2 shows the formation of a female zygote. 6



Which of the following chromosomes can be found in the sperm, ovum and female zygote ?

	Sperm	Ovum	Female Zygote
А	22 + Y	22 + X	22 + XY
В	22 + X	22 + X	22 + XX
С	22 + X	22 + X	44 + XX
D	44 + X	44 + X	44 + XX

7 Diagram 3 shows the inheritance of flower colour of a plant. *P* is the dominant gene for purple flower while *p* is the recessive gene for white flower.



Which offspring has purple flower ?

А Wonly

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- В X only
- С W and Z only
- D X and Y only

Diagram 4 shows the locations of elements P, Q, R and S in 8 the Periodic Table.

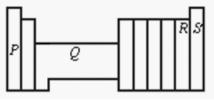


Diagram 4

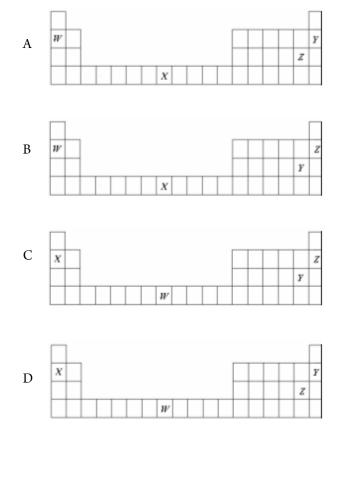
Which element is the most reactive ?

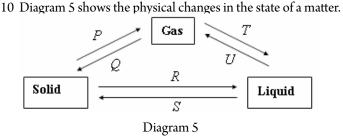
- Р А
- В Q
- С R
- D S
- The following information shows the properties of some 9 elements.
 - W: Transition element
 - X : Metal

HIGHER EDUCATION ADVISOR

- Y : Halogen
- Z : Noble gas

Which of the following shows the possible locations of the elements in the periodic table ?





Which of the following processes involve the absorption of heat energy ?

- P, R, U А
- В Q, S, T
- С P, S, T
- D Q, R, U
- 11 Atom Y has 18 neutrons and its nucleon number is 35. What is the proton number for atom Y?
 - А 17
 - В 18
 - С 35
 - D 52
- 12 Which of the following is true about the characteristics of a chemical change ?
 - A The products formed have the same mass as the reactants.
 - B The products have the different chemical properties from the reactants.
 - C The chemical change is reversible.
 - D Energy is usually required in the reaction.
- 13 Diagram 4 shows the apparatus set up of an experiment.

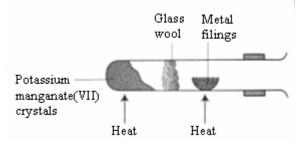


Diagram 4

What is the function of potassium manganate(VII) crystals in this experiment ?

А To speed up the reaction of metal

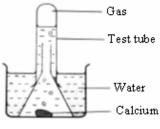
SPM Revision Questions

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- В To supply oxygen to react with metal
- С To absorb moisture in the boiling tube
- D To remove all the air in the boiling tube

Tips from current Students Applying for Scholarships **Explaination on Courses** Choosing Universities and Colleges

- 14 Which of the following is the best way to store photographic paper ?
 - A Stored in a black bag
 - B Stored in a glass container
 - C Stored in a transparency bag
 - D Stored in a plastic container
- 15 Diagram 5 shows a reaction between calcium and water to produce a colourless gas.



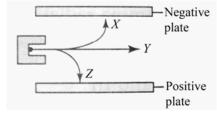


The gas produced is

- A turns limewater into cloudy
- B produces a 'pop' sound when tested with a lighted wooden splinter
- C rekindles a glowing wooden splinter
- D turns red litmus paper into blue

16 Which of the following is a radioactive substance ?

- A Sodium
- B Uranium
- C Hydrogen
- D Carbon-12
- 17 Diagram 6 shows the deflection of radioactive rays X, Y and Z in an electrical field.





What are represented by X, Y and Z ?

	Х	Y	Ζ
А	Alpha ray	Beta ray	Gamma ray
В	Alpha ray	Gamma ray	Beta ray
С	Gamma ray	Alpha ray	Beta ray
D	Beta ray	Gamma ray	Alpha ray

- 18 Why is gamma radiation suitable to be used to sterilise food ?
 - A It can enhance the flavour of food.
 - B It can kill all the bacteria and fungi in food.
 - C It can cause mutation to the microorganisms.
 - D It can change the chemical composition of food.
- 19 A student has three coloured filters, X, Y and Z. When X, Y and Z overlap each other, different colours are formed on the screen.

Light mixture	Colour formed
X+Y	Magenta
X+Z	Cyan
X + Y + Z	White

Which of the following represents X, Y and Z ?

	Х	Y	Ζ
A	Blue	Red	Green
В	Blue	Green	Red
С	Red	Blue	Green
D	Green	Red	Blue

20 The following information shows the characteristics of an image formed by material X.

•	Virtual
•	Upright
•	Diminished
•	Diminished

What is material X ?

- A Plane mirror
- B Screen
- C Concave lens
- D Convex lens
- 21 Diagram 7 shows an object is placed at different positions in front of a convex lens. At which positions marked A, B, C or D, will the size of image formed be smaller than the object ?

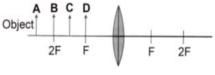


Diagram 7

- 22 How do the mixing coloured pigments differ from the addition of coloured lights ?
 - A Its colour is pure.
 - B The principle used in mixing coloured pigment is subtraction of colour.
 - C It produces white colour when three primary colours mixed together.
 - D The primary colours of pigments are green, red and blue.



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- Aluminium А
- В Copper
- С Carbon
- D Iron
- 24 Diagram 8 shows an experiment to study the hardness of brass, copper, aluminium and tin.

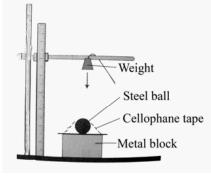


Diagram 8

When a weight is dropped onto the metal block, which metal block could have the smallest diameter of dent ?

- Tin А
- В Brass
- С Copper
- D Aluminium
- 25 The following information shows a process which occurs when a glucose solution is added with yeast.

Yeast

Glucose

ethanol + carbon dioxide

What is this process called ?

- А Distillation
- В Decomposition
- С Esterification
- D Fermentation
- 26 Which of the following diseases can be treated by using antiserum injection ?
 - А Malaria
 - В Tuberculosis
 - С Tetanus
 - D Cholera
- 27 Which of the following disease can be spread through a vector ?
 - А Common cold
 - В Malaria
 - С Chickenpox
 - D Mumps



28 An individual can acquire an artificial active immunity if he

- has been cured from a disease А
- В receives an injection of a vaccine
- С drinks his mother's milk
- D receives an injection of antiserums
- 29 Which of the following is an effective method to destroy bacteria spores ?
 - А Boiling
 - В Heating
 - С Antiseptics
 - D Autoclaving
- 30 Diagram 9 shows a type of bacteria found on the root nodules of a plant.



Diagram 9

Which of the following statements is correct ?

- А The bacteria are known as nitrifying bacteria.
- В The bacteria will destroy the roots of plant.
- С The bacteria mostly live in the root nodules of leguminous plants such as pea plants.
- D The bacteria convert nitrogen gas into nitrite compounds which are needed by plants.
- 31 Diagram 10 shows a man who lives in a cold place.



Diagram 10

Why does he need to eat more food containing fat?

А To replace the heat lost

Courses to Consider

- В To increase the rate of respiration
- С To build more new cells and adipose tissues
- D To produce more energy to maintain their body temperature

Tips from current Students <u>SPM Revision Questions</u> Applying for Scholarships Explaination on Courses Choosing Universities and Colleges

32 Table 1 shows the calorific values of three types of food.

Food	Calotific value per 100 g/kJ per 100 g
Egg	650
Chicken	590
Noodles	1512

Table 1

A man consumes 250 g noodles, 120 g chicken and 150 g egg for his lunch meal. What is the calorific value of the food consumed?

- 2752 kJ А
- В 3 272 kJ
- С 4770 kJ
- D 5463 kJ

33 Which of the following gases causes acid rain ?

- Ammonia А
- В Carbon dioxide
- С Carbon monoxide
- D Sulphur dioxide

34 Which is an effective method to prevent soil erosion?

- А Cut down trees
- В Plant cover crops
- С Construct new buildings
- D Build new road

35 The following information shows some human activities.

- Logging
- Mining
- Clearing forest
- Fishing

What is the common effect of the activities shown above?

- А Causes air pollution
- В Causes the thinning of the ozone layer
- С Destroys the habitats of flora and fauna
- D Threatens the human health

36 Diagram 11 show the picture of the ozone layer.



Diagram 11

What is the function of the ozone layer ?

- А Reduces excess heat from reaching the Earth
- Reflects the sun rays of the Sun back into space В
- С Absorbs heat from the Sun to avoid greenhouse effect
- D Protects living organisms from ultraviolet rays of the Sun



37 The following word equation shows the reaction between fatty acid and potassium hydroxide solution to produce soap.

Fatty acid + sodium hydroxide solution $\xrightarrow{\text{Process X}}$ soap + water

What is process X ?

- Sterilisation А
- В Esterification
- С Saponification
- D Polymerisation
- 38 Which of the following vehicles contains the highest motion inertia?
 - А A moving bicycle
 - В A moving rocket
 - С A moving lorry
 - D A moving ship

39 Which of the following shows the difference between saturated fats and unsaturated fats correctly ?

	Saturated fats	Unsaturated fats
Α	Obtained from plant sources	Obtained from animal sources
в	High cholesterol	Low cholesterol
С	Less hydrogen atoms	More hydrogen atoms
D	Low melting points	High melting points

40 Diagram 12 shows some applications used in our daily life.



Diagram 12

What is the operational principle used in these applications?

- Principle of conservation of momentum А
- В Archimedes' principle
- С Pascal's principle
- D Inertia

SPM Revision Questions

Courses to Consider

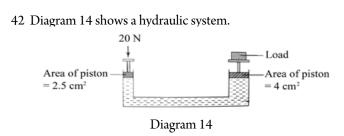
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41 Diagram 13 shows a helicopter.



What is the function of part X ?

- А To enable the helicopter to move upwards
- В To stabilise the helicopter during the flight
- С To minimise the gravitational force acting on the helicopter
- D To overcome the air resistance that resists the movement of helicopter



What is the weight of the load can be raised by this system ?

- А 8 N
- В 12.5 N
- С 20 N
- D 32 N
- 43 Aisyah is sent to a hospital after she consumed the food which has expired more than one week. What is most probably suffered by Aisyah ?
 - А Asthma
 - В Headache
 - С Diarrhea
 - D Liver damage
- 44 A chef adds monosodium glutamate to food when he prepares the dishes. What is the function of monosodium glutamate ?
 - А To sweeten food
 - В To add colour to food
 - С To improve the taste of food
 - D To prevent oxidation in food
- 45 Diagram 15 shows two methods of processing food.

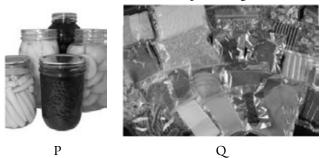
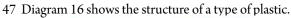


Diagram 15

What is the disadvantage of method P compared to method Q?

- А It can keep the food for a short period of time.
- В It spoils the taste and colour of food.
- С It can be only used in limited food.
- D It destroys food nutrients.

- 46 Mrs Elizabeth bought fish and meat from the market and she wanted to keep them for one week. What is the most suitable method which can be used to maintain the freshness of the fish and meat ?
 - А Cooling
 - В Freezing
 - С Dehydration
 - D Pasteurisation



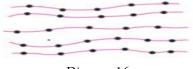


Diagram 16

Which of the following has this above structure ?

- А Epoxy
- Bakelite В
- С Melamine
- D Polyvinyl chloride

48 The following information shows three types of plastics.

- Polystyrene
- · Polyvinyl chloride
- Polythene

What is the similarity between the above plastics ?

- They do not dissolve in organic solvents. А
- В They can be stretched easily.
- С They cannot be burnt easily.
- D They are resistant to heat.
- 49 Diagram 17 shows a symbol of electronic component.

What is this electronic component ?

- А Diode
- В Resistor
- С Capacitor
- D Transistor
- 50 Which of the following types of satellites can detect and draft map to show the location of petroleum source ?
 - А Military satellite
 - В Navigational satellite
 - С Earth surveyor satellit
 - Weather forecast satellite D

END OF QUESTION PAPER



SPM Revision Questions Applying for Scholarships Courses to Consider Choosing Universities and Colleges

Tips from current Students Explaination on Courses

[1511/2]

Paper 2 Science

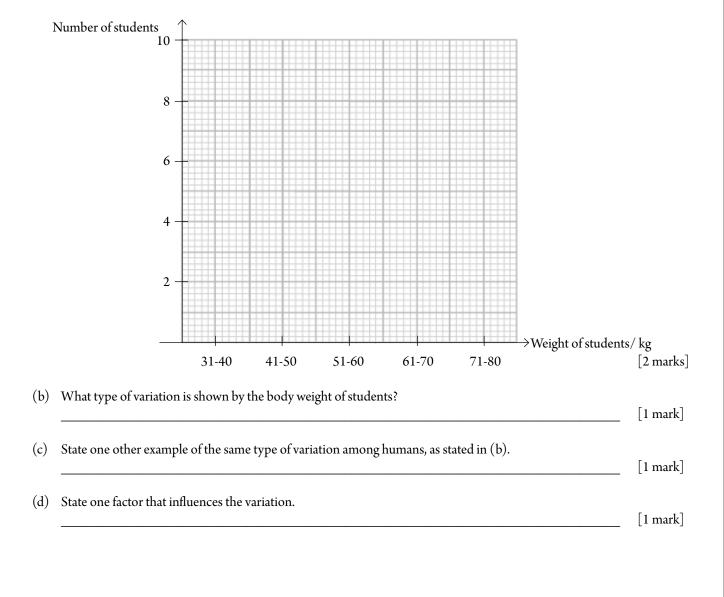
Section A [20 marks] Answer all the questions in this section.

1 Table 1 shows the data obtained when the body weight of students in a class 5 Dedikasi is measured.

Weight of students/kg	31–40	41–50	51-60	61–70	71-80
Number of students	3	8	12	7	1

Table 1

(a) Using the data above, draw a histogram on the graph paper below to show the number of students against their body weight.





Tips from current Students SPM Revision Questions Applying for Scholarships Courses to Consider **Explaination on Courses** Choosing Universities and Colleges

2 Diagram 2 shows an experiment to compare the reactivity of metals X, Y and zinc with oxygen.

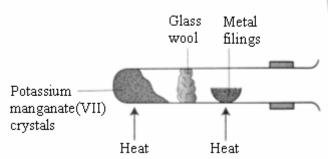




Table 2 shows the observation of the experiment.

Metal	Observation	
X	Burns with a bright flame	
Y	Glows dimly	
Zinc	(b)	

Table 2

- (a) State the variables in this experiment.
 - (i) Controlled variable:

(ii) Manipulated variable:

- (b) What can be observed when zinc reacts with oxygen?
- (c) When metal Y reacts with oxygen, a black solid is formed. What could metal Y be?

(d) Arrange the metals based on its reactivity with oxygen in an ascending order.

Reactivity increases

[1 mark]

[1 mark]

[1 mark]

[1 mark]

[1 mark]

3 Table 3 shows an experiment is carried out to study the growth of bacteria under different conditions.

Condition of the Petri dish	Presence of bacterial colonies	
Petri dish		
Nutrient agar + bacteria		
S		
Incubated in a dark place		
—— Petri dish		
Nutrient agar + bacteria		
<i>T</i> Incubated in a bright place		Table 3

SPM Revision Questions

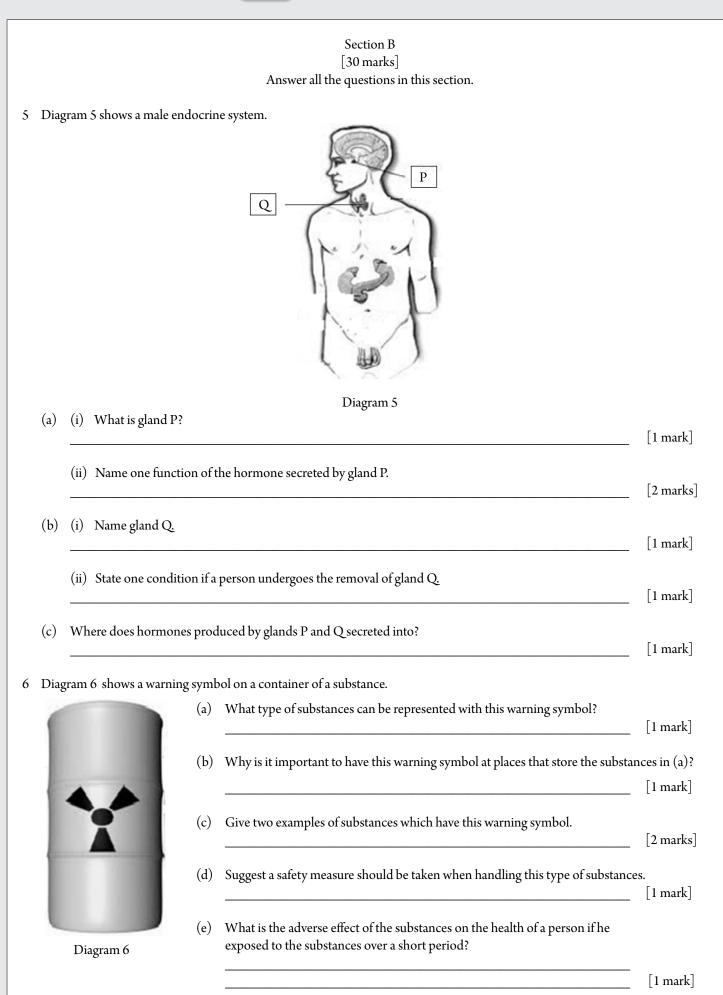
Courses to Consider A Choosing Universities and Colleges



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se Petri dishes that show the presence of bacterial colonies at the end	[1 mark]
trient agar to indicate the presence of bacteria?	[1 mark]
What factor to be studied in the experiment?	
	[1 mark]
xperiment?	
relationship between force and pressure. Weight	[1 mark]
Diagram 4	
corded in the Table 4.	
100 200 300 400	
n/mm 1.0 2.0 3.0 4.0	
Table 4	
mass and the distance of compression?	[1 mark]
	[1 mark]
	[1 mark]
of compression if the weight is replaced with same mass but smaller	
ıre.	[1 mark]
A Revision Questions Tips from curre Courses to Consider Applying for Scho	

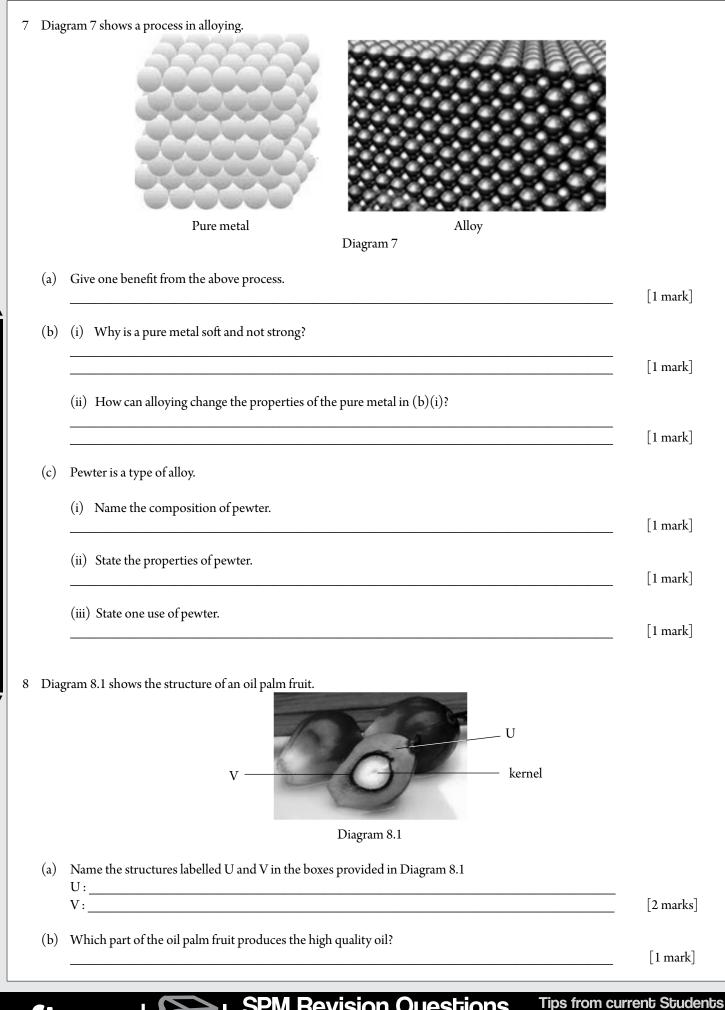
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(c) Diagram 8.2 shows the stages involved in extracting palm oil from the oil palm fruit. Χ Threshing Digestion Υ Purification Filtration Diagram 8.2 (i) What is process Y? [1 mark] (ii) State one importance of process X. [1 mark] (d) State one vitamin found in the palm oil. [1 mark] Diagram 9 shows communication satellites orbit around the Earth. 9 Diagram 9 What type of wave is used in satellite communication system to send information? (a) [1 mark] (b) How can we receive information from the communication satellite in space? [1 mark] (c) State two advantages of information transmission through communication satellite. [2 marks] $(d) \quad Give \ one \ application \ of \ satellite \ in \ our \ life.$ [1 mark] State another type of satellite which is used to detect the movements of ships at sea. (e) [1 mark]

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times) soalan ulangkaji spm 2011

Section C [20 marks] Answer Question 10 and either Question 11 or Question 12.

10 Study the following statement.

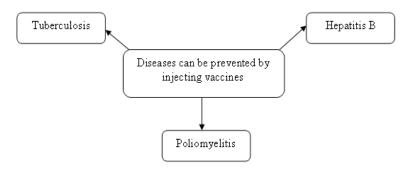
Magnesium and copper show different reactivity when reacting with dilute acid

You are given magnesium ribbon, copper filings and dilute hydrochloric acid.

- (a) Suggest a hypothesis to investigate the above statement.
- (b) Describe an experiment to test your hypothesis in (a) based on the following criteria.
 - (i) Aim of the experiment(ii) Identification of variables
 - (iii) List of apparatus and materials
 - (iv) Procedure or method
 - (v) Tabulation of data
 - (V) Tabulation of data

11 (a) State two differences between the following methods of sterilisation.

- (i) Boiling and autoclaving
- (ii) Antiseptics and disinfectants
- (b) Diagram 11 shows three diseases that can be prevented by injecting suitable vaccines.





Study the above diseases. You are required to develop a concept of a vaccine.

You answer should be based on the following aspects:

- Identify two common characteristics of a vaccine
- Develop an initial concept of a vaccine
- Give one example of a disease which can be prevented through vaccination and one which cannot prevented through vaccination
- Give one example of a vaccine

[6 marks]



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[4 marks]

[1 mark]

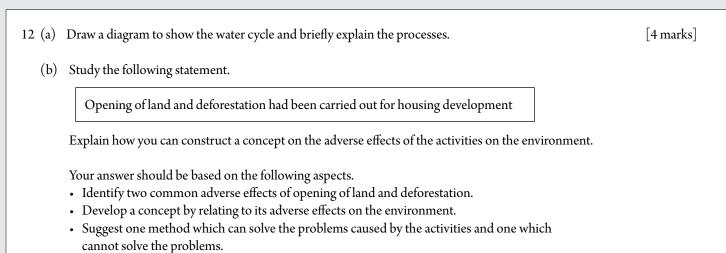
[1 mark]

[2 marks]

[1 mark]

[4 marks]

[1 mark]



• Give one reason for your answer.

[6 marks]

END OF QUESTIONS PAPER



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