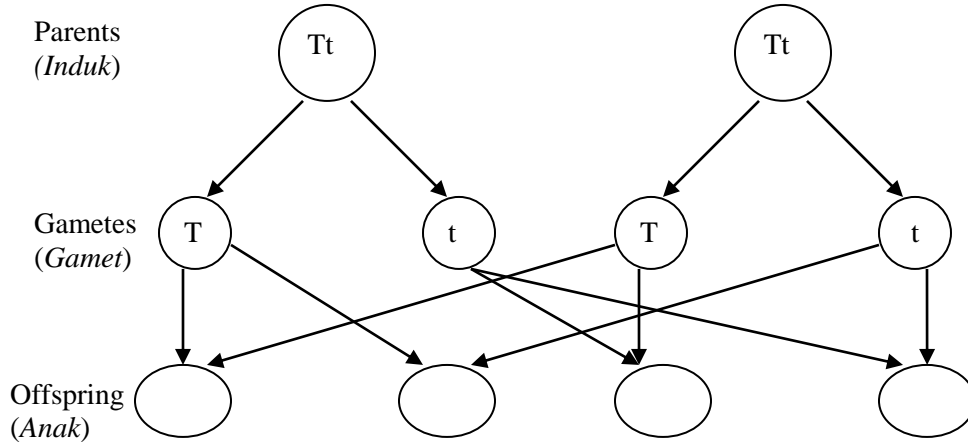


NAMA:  
 LATIHAN SAINS TG 5 CUTI 23 -31 MAC 2019

1 Diagram shows the inheritance of height in pea plants.  
 (Rajah menunjukkan pewarisan ketinggian pada pokok kacang.)



**Key**

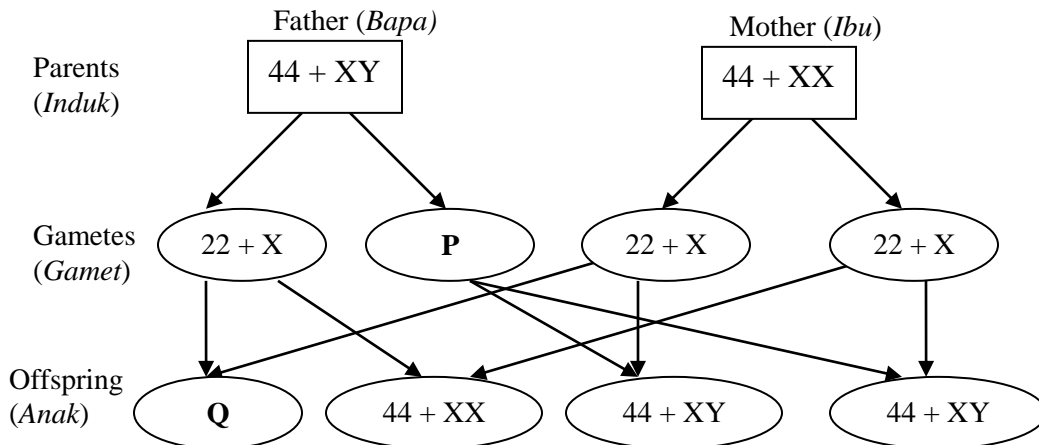
T – Tall dominant gene  
 Gen kerdil resesif

t – Dwarf recessive gene  
 Gen tinggi dominan

What is the expected ratio of the cross?  
 (Apakah nisbah yang mungkin bagi kacukan tersebut?)

- A 1 tall : 1 dwarf  
 (1 tinggi : 1 kerdil)
- B 2 tall : 1 dwarf  
 (2 tinggi : 1 kerdil)
- C 1 tall : 3 dwarf  
 (1 tinggi : 3 kerdil)
- D 3 tall : 1 dwarf  
 (3 tinggi : 1 kerdil)

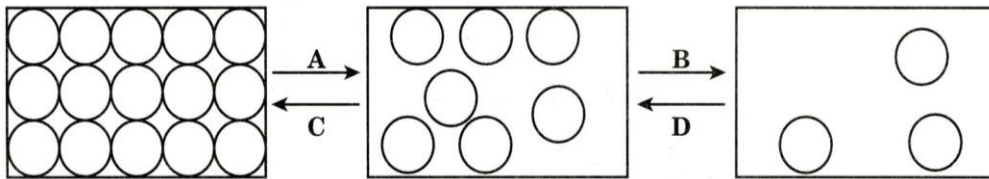
2 The schematic diagram shows sex determination in human.  
 (Rajah skema menunjukkan penentuan seks manusia.)



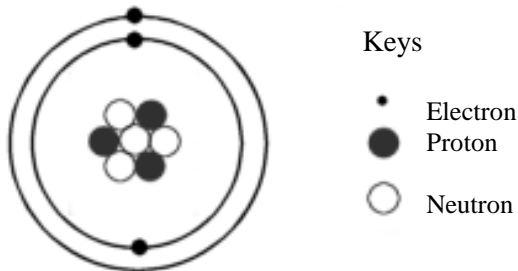
Which of the following are chromosomes found in P and Q?  
 (Antara berikut manakah kromosom yang terdapat dalam P dan Q?)

	<b>P</b>	<b>Q</b>
<b>A</b>	22 + Y	44 + XY
<b>B</b>	22 + Y	44 + XX
<b>C</b>	22 + X	44 + XX
<b>D</b>	22 + X	44 + XY

3 Which of the following A, B, C or D, represents boiling process ?  
 (Antara A, B, C dan D, yang manakah mewakili proses pendidihan ?)



4 Diagram shows the structure of atom X .  
 (Rajah menunjukkan struktur atom X)



What is the proton number, the nucleon number and the number of electron ?  
 (Apakah nombor proton, nombor nucleon dan bilangan electron )

	Proton number	Nucleon number	The number of electron
<b>A</b>	3	3	4
<b>B</b>	3	4	3
<b>C</b>	4	10	3
<b>D</b>	3	7	3

- 5 The table shows sub-atoms of four elements.  
(Jadual menunjukkan sub-atom bagi empat unsur)

Elements	Number of protons	Number of neutrons	Number of electrons	Nucleon number
P	6	6	6	12
Q	6	8	6	14
R	7	7	7	14
S	8	8	8	16

Which of the pairs are isotopes ?  
(Antara pasangan berikut yang manakah merupakan isotop?)

- A P and Q  
B Q and R  
C R and S  
D Q and S
- 6 Diagram shows an incomplete Periodic Table.  
(Rajah menunjukkan Jadual Berkala yang tidak lengkap)

PERIODS	GROUPS																	
	1	2											13	14	15	16	17	18
1																		
2																		
3			3	4	5	6	7	8	9	10	11	12						
4	X																	

- What is X ?  
(Apakah X?)
- A Non-metal  
(Bukan logam)  
B Noble gas  
(Gas Nadir)  
C Transition element  
(Unsur peralihan)  
D Metal  
(Logam)

- 7 The table shows some physical properties of elements X, Y and Z.  
(Jadual menunjukkan sebahagian sifat fizikal bagi unsur X, Y dan Z)

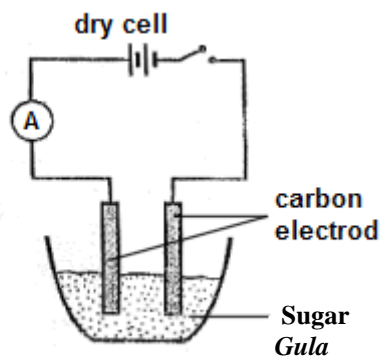
Element Bahan	Melting point (°C) Takat lebur	Electrical conductivity in Kekonduksian elektrik dalam	
		Solid state Keadaan pepejal	Molten state Keadaan lebur
X	115	Poor	Poor

Y	800	Poor	Good
Z	2 100	Good	Good

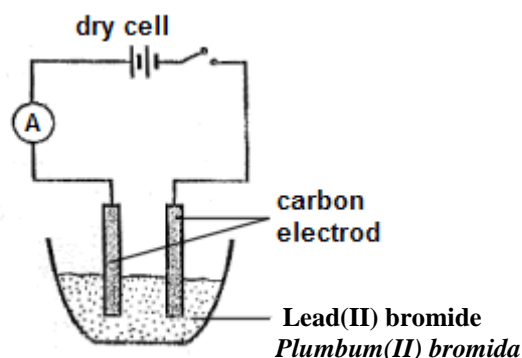
What are substances X, Y and Z ?  
(Apakah bahan X, Y dan Z?)

	X	Y	Z
A	Molecule	Atom	Ion
B	Molecule	Ion	Atom
C	Atom	Molecule	Ion
D	Ion	Atom	Molecule

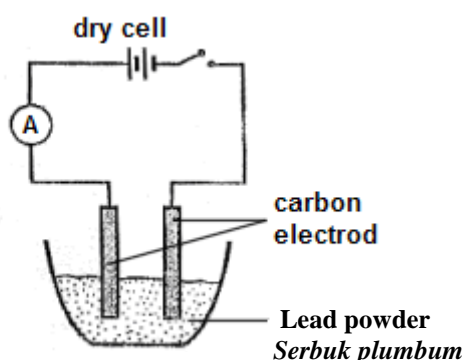
8 Which of the following apparatus set-up shows the deflection of Ammeter needle ?  
(Antara susunan radas berikut, yang manakah menunjukkan pesongan jarum ammeter?)



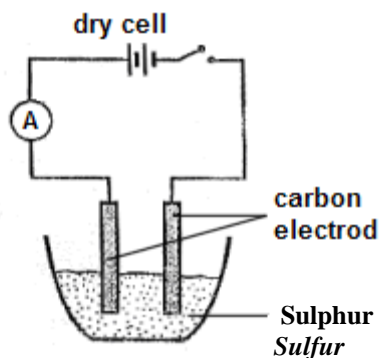
A



B



C



D

9 Liquid M has boiling points of 78 °C and liquid N has boiling point of 100°C. How to obtain liquid M from the mixture of the two liquids?  
(Cecair M mempunyai takat didih 78° C dan takat didih cecair N 100°C. Bagaimanakah cara untuk mendapatkan cecair M daripada campuran kedua-dua cecair tersebut?)

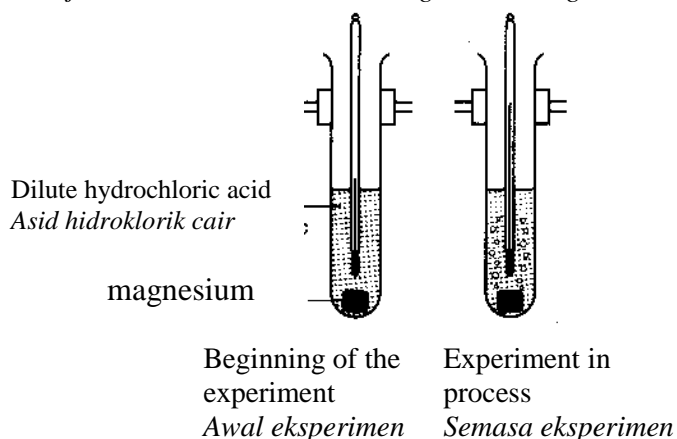
- A Filtration  
(Penurasan)

- B Crystallization  
(*Penghabluran*)
- C Distillation  
(*Penyulingan*)
- D Evaporation  
(*Penyejatan*)

10 Which of the following example is involved in a chemical change ?  
(*Antara contoh yang berikut yang mana terlibat dengan perubahan kimia?*)

- A Combustion of petrol in a car  
(*Pembakaran petrol di dalam sebuah kereta*)
- B Evaporation of water on a hot day  
(*Sejatan air pada hari panas*)
- C Sublimation of iodine crystals to iodine vapour  
(*Pemejalwapan hablur iodin kepada wap iodine*)
- D Crystallisation of a salt from a saturated salt solution  
(*Pemhabluran garam dari larutan tepu garam*)

11 Diagram shows a reaction between magnesium and dilute hydrochloric acid.  
(*Rajah menunjukkan tindakbalas antara magnesium dengan asid hidroklorik cair*)



What type of reaction is involved in this experiment ?  
(*Apakah jenis tindakbalas yang terlibat dalam eksperimen ini?*)

- A Oxidation  
(*Pengoksidaan*)
- B Exothermic  
(*Eksotermik*)
- C Endothermic  
(*Endotermik*)
- D Neutralisation  
(*Peneutralan*)