六年级科学

预考试卷

2018年

科学

试卷二

028/2

1小时

1小时

不可翻阅试卷直至通知为止

- 把身份证号码或报生纸号码和考生编号写在指定的格子里。
- 2. 答案须清楚写在试题中。
- 3. 这份试卷共有8题。
- 4. 全部题目必须作答。
- 5. 如果你要更改答案,先把原来的 答案擦干净,然后才写上新的答 案。

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题数	满分	得分
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3	5	i hi and
4	5	
5	. 5	
6	5	
7	6	
8	6	1 57 /ti

这份试卷共有20页影印页面

1. a) 图1.1显示两组动物。

Diagram 1.1 shows two groups of animals.



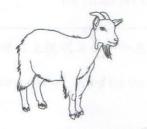
图 1.1 /Diagram 1.1

assified in group X .		归类在X组的另 xample of anima	
		- 17 - 18 - 18 - 18 - 18 - 18 - 18 - 18	
[1 分/mark]	类	满分。	☆ ₩
为什么?	日类于哪一组?	.1,海狮可被儿	ii) 根据图1
n sea lion be classified? Why?	which group can	n Diagram 1.1,v	Based o
[1 分/mark]	. 2	3	

支份运差共有20页影的页面。

b) 图1.2显示两种动物。

Diagram 1.2 shows two types of animals.



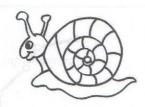


图1.2 / Diagram 1.2

i)	根据图1.2,	试举例这两种动物的不同点。
	What is the	difference between two animals in Diagram 1.2?
		What is constellation? Tick (4) in the correct box.

	What is considered a rekey) in the Cornect Dox.	
	直接院內括的群選	[1 分/mark]
ii)	根据图1.2, 这些动物有相同的特征。在相同的特征画 ✓	
	Based on Diagram 1.2, these animals have the same characteristic.	
	Tick $\sqrt{}$ at the same characteristic.	
	栖息地	
	Habitat	
	外皮特征 with all notalls iznoo beview to sate small	
	Body coverage	
	进食习惯	
	Eating habit	

2. 艾曼和弟弟正在观察夜晚的天空。他们看见如图2所示的星座。

One night, Aiman and his brother were observing the sky. They observed the constellation in diagram 2.

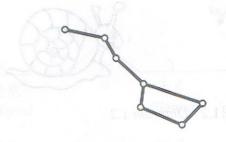


图 2 / Diagram 2

a. 星座的定义是什么?在()里 \checkmark 选出对的答案。 What is constellation? Tick (\lor) in the correct box.

	在夜晚闪烁的群星	
	Stars glittering at night in the sky	
	一群在夜空形成特定图案的星体	
	A group of stars forming a recognisable pattern at night in	
	· · · · · · · · · · · · · · · · · · ·	[1 分/mark]
b.	写出在图2所观察到的星座名称。 Name the observed constellation in diagram 2.	
	Both coverage	
	Enting habs	[1 分/mark]
c.	星座如何帮助古代的农民? How the constellation helps the farmers long time ago?	
		[1 分/mark]

d.

白天我们看不见星座

We could not observed constellations during day time

根据以上说明写出一个原因。

Give a reason based on the above information.

3. 表一显示某个州属在四年内被丢弃有毒废物的数量的调查结果。

Table 1 shows a result of investigation on the amount of toxic waste in a state for 4 years.

年份	被丢弃有毒废物的数量 (公斤)
Year	Amount of toxic waste (kg)
2011	1000
2012	2000
2013	3000
2014	1500

表 1 / Table 1

a)	根据以上图表,写出固定性变数。
	Based on the table above, state the constant variable.
	[1 分/mark]
b)	写出被丢弃有毒废物的数量的变化形式。
	State the change pattern of the amount of toxic waste.
	[1 分/mark]
c)	根据2013年至2014年被丢弃有毒废物数量,做出一个推断。
	State one inference on the amount of toxic waste from the year 2013 to 2014.
	[1 分/mark]

d)	根据上述调查结果做出结论。	
	State the conclusion that can be made based on the investigation about	ove?
	mai used a totellingin düriliğ diblackom in his house. He yound olk mai	
	in the second se	
		[1 分/marl
e)	根据你的看法,为什么有毒废物依然存在我们的四周环境?	
6)		ont?
	In your opinion, why does the toxic waste remains in our environm	ent:
	Suggest one way to migrore the brightness of the northlyst	
		[1 分/mar]

4. (a) 阿卡玛在停电时使用手电筒。他发现手电筒的亮度是暗淡的。

Akmal used a torchlight during a blackout in his house. He found out that the torchlight has a low brightness.

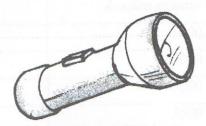


图 4.1

Diagram 4.1

Suggest one way to imp	prove the brightness of the torchlight.
	[1]
归归图 4 4 4 千 中 答	,利用元件的符号绘制一个完整电路。
Sketch a complete elec	ctrical circuit using symbols based on the torchli
given in Diagram 4.1.	
1	
類2013年 (1012年)	
(\$2013 F £ 2014 — #	
SECOLO E SECOLO - A	
152013 3 S.COLA - F	

[2分/mark]

(b) 鉴定实验中两种不同电路的灯泡的亮度。

An investigation was carried out to identify the brightness of light bulbs for 2 different electrical circuits.

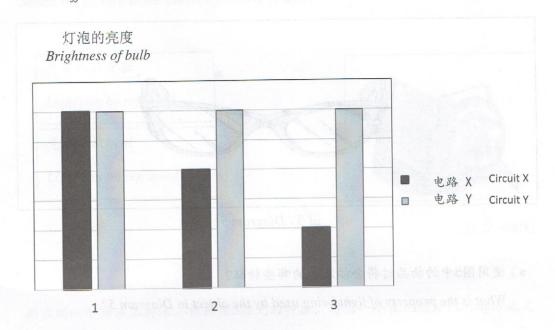


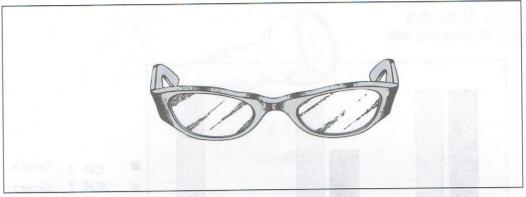
图 4.2 / Diagram 4.2

(i)	说出两种电路的名称。
	Name 2 types of the electrical circuits.

X: 31 10 1999 11 11 11 11 11 11 11 11 11 11 11 1	Emanitaria (ver 3 and
Y:	
	[2 分/mark]

5. 图5显示针对一种物品所进行的研究。

Diagram 5 shows the investigation of an object.



10

图 5 / Diagram 5

What is the property of light being used by the object in Diagram 5?	
17	[1 分/mark]
b) 写出两种使用以上光的特征的原理所制成的物品?	
State two equipments that used the properties of light based on the sit	uation above?
[2 s/mm/k]	
	[2 分/mark]

c) 正确地搭配图中光的特征。

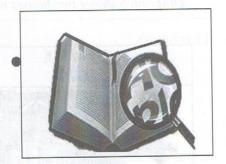
 ${\it Match the picture\ to\ the\ correct\ property\ of\ light.}$

光可以被反射

Light can be reflected

光可以被折射

Light can be refracted



[1分/mark]

d) 利占到一个游泳池游泳。根据图5的光的特征,写出一个在他还没跳入游泳池之前所采取的措施。

Reezan goes swimming in a pool. Based on properties of light in Diagram 5, state a precaution that he must ensure before diving into the pool.

为了建造坚固的建筑物,通常会使用铁和砖块等材料。 To build a strong building, materials such as iron and concrete are used.

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图6显示两种使用不同材料建造的房屋。

Diagram 6 shows two houses made of different materials

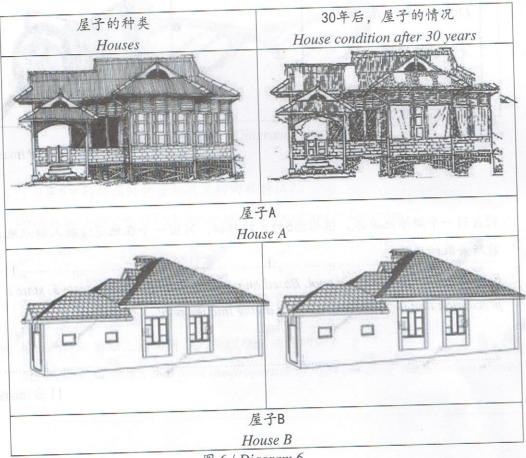


图 6 / Diagram 6

a. (i) 根据图6, 写出你的观察。 Based on diagram 6, state your observation.

(i	ii)	根据	a (i)的观察,	写出	出价	次的	推断	0
-----	-----	----	------	-------	----	----	----	----	---

State an inference for your observations in a (i)

[1 分/mark]

b. 那英要建造一栋屋子。在那英建造一个坚固的屋子所需考量的因素上画 (√)。

Naim wants to build a house. Tick (\land) for factors to be considered by Naim to build a strong and long lasting house.

建筑物的高度 The building height	on the state nent in the above po sees the socrethe bridges.
建筑物的形状 The building shape	
建筑物的底部面积 The building base area	

c.

3座桥建造在马六甲的3条河上。桥P使用木材料建造, 其使用期为10年; 桥Q使用铁材料建造, 其试用期为20年; 桥R使用砖块建造, 其试用期为30年。

Three bridges were built over three rivers in Melaka State. Bridge P is built with wood and its durability is 10 years, Bridge Q is built with steel and its durability is 20 years and Bridge R is built with concrete and has 30 years durability.

根据上述资料, 绘制一个表以显示桥的不同点。

Based on the statement in the above passage, construct a table to show the differences between the bridges.

He man is a man in a

7. 阿里应用三个不同大小的磁铁 P 、Q 和 R 进行一项有关磁力的研究。磁铁 Y 被固定在桌面上。

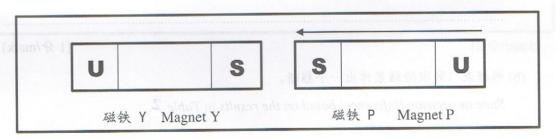
Ali conducts an investigation on magnetic strength by using 3 different sizes of magnets labeled as P, Q and R. A magnet labelled as Y has been fixed on the surface of a table.

活动 1 / Activity 1:

阿里将磁铁 P 靠近磁铁 Y 如图7所示。当磁铁 P 被放开后, 阿里发现有关磁铁 Z 。

Ali has placed the P magnet close to Y magnet as shown in diagram 7. When he let go P magnet, Ali found out that the P magnet has distanced away from Y magnet.

实验前 / Before



实验后 / After

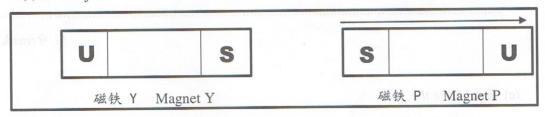


图 7 / Diagram 7

活动 2 / Activity 2:

图 7 的活动接着以磁铁 Q 和 R 进行。每个磁铁相斥的距离从 Y 磁铁开始测量。表 2 显示实验结果。

Activity in diagram 7 is continued using Q and R magnets. The repelled distance for each magnet has been measured from magnet Y. Table 2 shows the results of the investigation.

磁铁/ magnet	P	Q	R
磁铁相斥的距离/ Repelled distance (cm)	2.3	X	4.7

表 2/Table 2

(a) 如果磁铁相斥的距离的变化形式增加	,预测表2里X的	the Manney (IA Manney) (IA)
Predict the value of X in table 2 if the re		
(b) 根据表 1的实验结果作出一个推断。	8	[1 分/mark]
State one reason (inference) based on th	e results in Table	2.
		英型系 / Anst
U 2		[1 分/mark]
(c) 写出/ State the,		
i. 固定性变数 / constant variable:	TE	
ii. 操纵性变数 / manipulated variab	ble:	

[2 分/mark]

(d) 根据表 2 的资料, 绘制一个条形统计图。

Based on the information in Table 2, construct a bar chart in the space below.

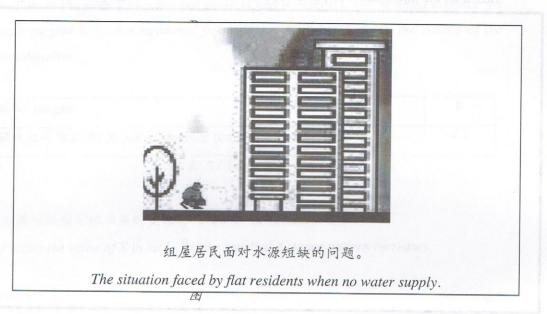


[2 分/mark]

Rosed on Diagram 8.2, help Danish to <mark>solve the prob</mark>



El 8.2 / Diagram 8.2



8.1 / Diagram 8.1

根据图8.2, 试帮助达尼士解决组屋居民的问题。

Based on Diagram 8.2, help Danish to solve the problems of the flat residents.



图 8.2 / Diagram 8.2

a. 根据以上物品, 试帮助达尼士用简单机械设计一个可以解决以上问题的方法。

Based on the objects, create a device to resolve the flat residents' problem by

sketching it in the	e space below. The respect Suggest o way to revolve his problem.
(1分/mar	
s invention?	
[13/man	

[2 分/mark]

[2 分/mark]

c.	达尼士设计的简单机械设置已经完成及能被使用, 他在拉动绳子时由					
	建议一个解决该问题的方法。					
	The simple machine built by Danish is ready and usable but he has trouble					
	the rope. Suggest a way to resolve his problem.					
		[1分/mark]				
d.	我们通常在哪里能看到达尼士的发明所使用的简单机械?					
	Where do we usually find a simple machine used by Danish in his invention	on?				
		[1分/mark]				

La Salatina