**UNIT 1　SCIENCE AND SCIENTISTS**

**Section Ⅰ　Reading and Thinking**

一、单词拼写

**1**.They felt f　　　　　　　 at the lack of progress.

答案:frustrated

**2**.If two statements are c　　　　　　　,that is to say,they are different.

答案:contradictory

**3**.Only a minority of h　　　　　　　 don’t have a car.

答案:households

**4**.A man who has m　　　　　　 interests usually has lots of friends.

答案:multiple

**5**.A clerk must know how to h　　　　 difficult customers.

答案:handle

**6**.The number of traffic accidents now has d　　　　　　.

答案:decreased

二、单句语法填空

**1**.Let’s settle the problem once and 　　　　　all.

答案:for

**2**.A wise person usually subscribes 　　　　　approval in a different way.

答案:to

**3**.Thanks 　　　　　　your help,I have worked out a good plan.

答案:to

**4**.As a result 　　　　　　his careless,he failed in the examination.

答案:of

**5**.You are much more likely 　　　　　　get cholera if you drink such infected water.

答案:to

三、完成句子

**1**.他过去是一个非常优秀的学生。

He 　　　　　　　　　　　　　 　　　　　 　　　　　 student.

答案:used to be a very excellent

**2**.没人能阻止历史的车轮前进。

Nobody can prevent 　　　 　　　　　 　　　　　　　　　　　　.

答案:the wheels of history from running forwards

**3**.使我吃惊的是,他在这么短的时间里竟取得这么大的进步。

To my surprise,he 　　　　 　　 　　　　　 　　　　　 　　　　　　.

答案:has made such great progress in a short time

**4**.他决心成为一名志愿者。

He 　　　　　　　　　　　　　　　be a volunteer.

答案:was determined to

**5**.多亏了这场大雨,否则庄稼就会死了。

　　　　　　　　 　　　　　 　　　　　 ,otherwise,the crops will die.

答案:Thanks to the heavy rain

四、阅读理解

**A**

What is the nature of the scientific attitude,the attitude of the man or woman who studies and applies physics,biology,chemistry,geology,engineering,medicine or any other science?

We all know that science plays an important role in the society in which we live.However,many people believe that our progress depends on two different aspects of science.The first aspect is the application of the machines,products and systems of applied knowledge that scientists and technologists develop.The second is the application of the special methods of thought and action that scientists use in their work.

What are these special methods of thinking and acting?First of all,it seems that a successful scientist is full of curiosity—he wants to find out how and why the universe works.He usually directs his attention towards problems which he notices have no satisfactory explanation,and his curiosity makes him look for underlying (潜在的) relationships even if the data available seem to be unconnected.Moreover,he thinks he can improve the existing conditions and enjoys trying to solve the problems which this involves.

He is a good observer,accurate,patient and objective,and applies logical thought to the observations he makes.He uses the facts he observes to the fullest.For example,trained observers obtain a very large amount of information about a star mainly from the accurate analysis of the simple lines that appear in a spectrum (光谱).

He does not accept statements which are not based on the most complete evidence available—and therefore rejects authority as the sole basis for truth.Scientists always check statements and make experiments carefully and objectively.

Furthermore,he is not only critical of the work of others,but also of his own,since he knows that man is the least reliable scientific instruments and that a number of factors tend to disturb objective investigation.

Lastly,he is full of imagination since he often has to look for relationships in data which are not only complex but also frequently incomplete.Furthermore,he needs imagination if he wants to guess how processes work and how events take place.

These seem to be some of the ways in which a successful scientist or technologist thinks and acts.

**1**.Many people believe that science helps society to progress through 　　　.

A.applied knowledge　　　 B.more than one aspect

C.technology only D.the use of machines

答案:B

解析:细节理解题。根据第二段中的“However,many people believe that...two different aspects of science.”可知,许多人认为科学推动社会进步凭借的是两个方面。故选B项。

**2**.Which of the following statements is NOT true about a curious scientist?

A.He can find confidence and pleasure in work.

B.He has an interest in problems that are unexplained.

C.He makes efforts to investigate potential connection.

D.He looks for new ways of acting.

答案:D

解析:细节理解题。根据第三段最后一句可知,他认为他能改善现有条件,并享受努力解决问题的过程,说明他能在工作中找到自信和快乐,A项正确。根据“...his curiosity makes him look for...seem to be unconnected.”可知,他的好奇心促使他寻找数据间潜在的关系,即使这些数据表面看起来并无任何联系,C项正确。根据“He usually directs his attention towards problems which he notices have no satisfactory explanation”可知,他将注意力指向还没有满意答案的问题,B项正确。D项文中没有提及。

**3**.What does the passage mainly discuss?

A.Application of technology.

B.Progress in modern society.

C.Scientists’ ways of thinking and acting.

D.How to become a successful scientist.

答案:C

解析:主旨大意题。文章主要探讨了科学家的思考和行为方式。故选C项。

**4**.What is the author’s attitude towards the topic?

A.Critical. B.Objective.

C.Subjective. D.Unclear.

答案:B

解析:推理判断题。作者在阐述自己的观点时,并没有加入个人评价,只是客观地阐述事实。故选B项。

**B**

Ada Byron who was born in 1815,was the daughter of the British poet Lord Byron and Anne Milbanke.Her parents separated just a month after Ada was born.Four months later,Byron left England forever.Ada never met her father (who died in Greece in 1824) and was raised by her mother.

Lady Byron wished her daughter to be unlike her father and she insisted that Ada,who was educated privately,study mathematics.Ada did well not only in mathematics and science,but also in music and dance.

Ada met Charles Babbage in 1833.Babbage was a famous English mathematician.He was known as the inventor of a calculating machine called the Difference Engine.Babbage had made plans in 1834 for a new kind of calculating machine(although the Difference Engine was not finished),an Analytical Engine(分析机).Few people in England supported his plans.But he found support for his new calculating machine abroad.In 1842,an Italian mathematician,Louis Menebrea,published an article in his native language on the subject of the Analytical Engine.Babbage asked Ada to translate the article.

When she showed Babbage her translation,he suggested that she add her own notes,which turned out to be three times as long as Menabrea’s.The notes brought her great fame.In her notes,Ada predicted that such a machine might be used to write music,to draw pictures,and would be used for both practical and science use.She was correct.

Ada died of cancer in 1852.In 1980,165th years after Ada’s birth,the US Defense Department announced a powerful new computer language.They named it Ada in honour of Ada Lovelace’s important role in the history of computing.

**5**.It can be inferred that Ada’s mother 　　　.

A.was too poor to send Ada to accept normal education

B.wanted her daughter to be a great poet as her father

C.didn’t think Ada could do well in her studies

D.hoped that Ada became a mathematician one day

答案:D

解析:推理判断题。根据第二段中的“...and she insisted that Ada,who was educated privately,study mathematics”可以推测Ada的妈妈坚决要求自己的女儿学习数学,可能是希望将来她能成为数学家。

**6**.Why didn’t Babbage find support for his Analytical Engine in Britain?

A.Because his first calculating machine was not finished.

B.Because no one in Britain thought the machine was useful.

C.Because most of his previous inventions proved useless.

D.Because British people were not interested in his invention.

答案:A

解析:细节理解题。根据第三段中的“Babbage had made plans in 1834 for a new kind of calculating machine(although the Difference Engine was not finished),an Analytical Engine.Few people in England supported his plans.”可知,Babbage在英国得不到支持的原因是他的第一台计算机还没有完成。

**7**.Menebrea’s article on Analytical Engine was written in 　　　.

A.English B.Italian

C.French D.German

答案:B

解析:细节理解题。由第三段最后两句可知,Menebrea是意大利人,他用自己母语写的文章,故知这篇文章是用意大利语写的。

**8**.We can learn about Ada from the passage that 　　　.

A.she was remembered as a great translator

B.her predictions in her notes have become true

C.her notes were written in computer language

D.she helped to make the first Analytical Engine

答案:B

解析:细节理解题。根据第四段内容特别是“She was correct.”可知,Ada的预言成了现实。

五、语篇填空

(2022·新高考Ⅰ卷)

The Chinese government recently finalized a plan to set up a Giant Panda National Park (GPNP).**1**.　　　　　(cover) an area about three times **2**.　　　　　　 size of Yellowstone National Park,the GPNP will be one of the first national parks in the country.The plan will extend protection to a significant number of areas that **3**.　　　　　(be) previously unprotected,bringing many of the existing protected areas for giant pandas under one authority **4**.(increase) effectiveness and reduce inconsistencies in management.

After a three-year pilot period,the GPNP will be officially set up next year.The GPNP **5**.　　　　　　　(design) to reflect the guiding principle of “protecting the authenticity and integrity(完整性) of natural ecosystems,preserving biological diversity,protecting ecological buffer zones,**6**.　　　　　　 leaving behind precious natural assets(资产) for future generations”.The GPNP’s main goal is to improve connectivity between separate **7**.　　　　　　(population) and homes of giant pandas,and **8**.　　　　　(eventual) achieve a desired level of population in the wild.

Giant pandas also serve **9**.　　　　　　 an umbrella species(物种),bringing protection to a host of plants and animals in the southwestern and northwestern parts of China.The GPNP is intended to provide stronger protection for all the species **10**.　　　　　  live within the Giant Panda Range and significantly improve the health of the ecosystem in the area.

答案:1.Covering　2.the　3.were　4.to increase　5.is designed　6.and　7.populations　8.eventually　9.as　10.that

六、微写作

结合课文主题,使用本单元所学内容写一篇50词左右的短文。

**1**.霍乱是一种传染性疾病,会引起严重的腹泻,如果不及时治疗,会导致脱水甚至死亡。(cholera;infectious disease;severe;diarrhoea;dehydration)

**2**.一开始,人们怀疑是因为空气不好。(suspect)

**3**.多亏了约翰·斯诺的研究,人们发现了真相,被污染的水才是罪魁祸首。(thanks to;blame)

**4**.我们现在知道了如何预防霍乱。(prevent)

**5**.通过不断的努力,我们能彻底打败霍乱。(once and for all)

参考范文

Cholera is an infectious disease that cause serve diarrhoea which can lead to dehydration and even death if untreated.Initially,people suspected it was caused by bad air,but thanks to John Snow’s research,it was discovered that polluted water was to blame.This was a big breakthrough that helped us understand how to prevent the spread of cholera.By focusing on making sure that the water we use is clean and safe,we can stop the disease from spreading and making people sick.With continued efforts to improve water sanitation and promote healthy habits,we can defeat cholera once and for all.