大学英语四级阅读40篇之二十四(含答案) PDF转换可能丢 失图片或格式,建议阅读原文

https://www.100test.com/kao_ti2020/122/2021_2022__E5_A4_A7_ E5_AD_A6_E8_8B_B1_E8_c83_122697.htm 24/200The accuracy of cientific observations and calculations is always at the mercy of the scientists timekeeping methods. For this reason, scientists are interested in devices that give promise of more precise timekeeping. In their search for precision, scientists have turned to atomic clocks that depend on various vibrating atoms or molecules to supply their "ticking" .This is possible because each kind of atom or molecule has its own characteristic rate of vibration. The nitrogen atom in ammonia, for example, vibrates or "ticks" 24 billion times a second. One such atomic clock is so accurate that it will probaly lose no more than a second in 3000 years. It will be of great improtance in fields such as astronomical is a sesium atom that vibrates 9.2 billion times a second when heated to the temperature of boiling water. An atomic clock that operates with an ammonia molecue may be used to check the accuracy of predictions based on Einsteins relativity theories, according to which a clock in motion and a clock at rest should keep time differently. Placed in an orbiting satellite moving at a speed of 18000 miles an hour, the clock could broadcast its time readings to a ground station, where they would be compared with the readings on a similar model. Whatever differences develop would be checked against the differences predicted.1. Scientists expect that the atomic clocks will be ______.a.more preciseb.absolutely accuratec.more durabled.indestructible2. The heart of the

atomichron is	a.acesium a	atomb.an amr	monia molecule	c.a
nitrogen atomd.a hyd	drogen3.From	the0selection	,we may assume)
that temperature char	nges	a.affect only a	mmonia	
moleculesb.may affect the vibration rate of atomsc.affect the speed at				
which atoms traveld.c	do not affect a	toms in any w	ay4.Identical	
atomic clocks may be	used to chec	ka.the	e effect of outer	
space on an atomic cl	ockb.the actu	al speed of an	orbiting	
satelitec.the accuacy of predictions based on theories of relativityd.all				
of Einsteins theories5	.Implied but r	not stated:	a.Precise	
timekeeping is essenti	al in scienceb	.Scientists exp	ect to disprove	
Einsteins relativity the	eoriesc.Atomi	c clocks will b	e important in s	pace
flightd.The rate of vib	ration of an a	tom never var	ies24/200答	
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