

حتما بخوانید پاسخ تشریحی سوالات زبان عمومی کنکور دکتری ۹۴ –

پاسخ تشریحی سوالات زبان عمومی کنکور دکتری ۹۴ — گروه فنی مهندسی و علوم پایه



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با سلام

ضمن عرض خسته نباشید به شما داوطلبان گرامی آزمون دکتری

پاسخ تشریحی سوالات زبان عمومی گروه فنی مهندسی و علوم پایه دکتری ۹۴ را در ذیل قرار دادم.

سطح سوالات گرامر و لغت این گروه نسبت به گروه علوم انسانی ساده تر بود.ولی سطح سوالات دو متن درک مطلب به مراتب از گروه علوم انسانی زمانبر تر بود.

دانشجویان کلاس من به راحتی می توانند به ۶ تا ۷ سوال از ۸ سوال گرامر پاسخ صحیح دهند.

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131-	Women are thought to no official role in Roman army activities.				
	 having had 		2) have		
	3) have had		4) be having		
132-	We have to make sure that we think is right.				
	1) a way that will machines behave				
	2) that machines will behave in a way				
	3) for the machines a way to behave				
	4) to behave in a way that machines are				
133-				onstrictions in marine animal	
		them locally			
	1) and has driven		that are dri	iven by	
	3) which it drives		4) driving		
134-			d with LCMV Clo	ne-13 (Cl-13), which causes a	
	systemic infection				
	1) that lasts for 60	The state of the s			
	2) of 60 to 90 day				
	3) lasts between 60 and 90 days				
	3) lasts between 6	0 and 90 days			
	3) lasts between 6 4) between 60 to 9				
135-	4) between 60 to 9	90 days of lasting	stinguish between l	brain activity associated with	
135-	4) between 60 to 9 For the first time, pain from a physi	90 days of lasting it is possible to dis cal cause, such as		brain activity associated with	
135-	4) between 60 to 9 For the first time, pain from a physito your state of mi	90 days of lasting it is possible to discal cause, such as and.			
135-	4) between 60 to 9 For the first time, pain from a physito your state of mi 1) the association	90 days of lasting it is possible to discal cause, such as and.	an injury, and 2) is associate	with pain linked	
135-	4) between 60 to 9 For the first time, pain from a physito your state of mi	90 days of lasting it is possible to discal cause, such as and.	an injury, and	with pain linked	
	For the first time, pain from a physi to your state of mi 1) the association 3) that associated	90 days of lasting it is possible to discal cause, such as and.	2) is associate 4) that of asso	ed ociation is	
	For the first time, pain from a physi to your state of mi 1) the association 3) that associated The visual treatme appropriate for a	of days of lasting it is possible to discal cause, such as ind.	2) is associate 4) that of associated and the stylist	with pain linked	
	For the first time, pain from a physi to your state of mi 1) the association 3) that associated The visual treatment appropriate for a with the structure.	of days of lasting it is possible to discal cause, such as ind.	2) is associate 4) that of associated and the stylistic are	ed ociation is tic ideas of what was visually technical factors connected	
	For the first time, pain from a physi to your state of mi 1) the association 3) that associated The visual treatme appropriate for a	of days of lasting it is possible to discal cause, such as ind.	2) is associate 4) that of associated and the stylist	ed ociation is tic ideas of what was visually	
36-	For the first time, pain from a physi to your state of mi 1) the association 3) that associated The visual treatment appropriate for a with the structure.	of days of lasting it is possible to discal cause, such as and. ent was as much in modern architects 2) to be in	2) is associate 4) that of associate fluenced by stylister 3) being	ed octation is tic ideas of what was visually technical factors connected 4) was	
36-	For the first time, pain from a physi to your state of mi 1) the association 3) that associated The visual treatment appropriate for a with the structure. 1) as it was by	of days of lasting it is possible to discal cause, such as and. ent was as much in modern architects 2) to be in	2) is associate 4) that of associate fluenced by stylister 3) being	ed ociation is tic ideas of what was visually technical factors connected 4) was	
36-	For the first time, pain from a physi to your state of mi 1) the association 3) that associated The visual treatme appropriate for a with the structure. 1) as it was by tha	of days of lasting it is possible to discal cause, such as and. ent was as much in modern architector. 2) to be in tean take the place atomic anions	2) is associate 4) that of associate fluenced by stylister 3) being	ed octation is tic ideas of what was visually technical factors connected 4) was	
36-	For the first time, pain from a physi to your state of mi 1) the association 3) that associated The visual treatme appropriate for a with the structure. 1) as it was by	of days of lasting it is possible to discal cause, such as ind. ent was as much in modern architector 2) to be in t can take the place ratomic anions ons are so many	2) is associate 4) that of associate fluenced by stylister 3) being	ed octation is tic ideas of what was visually technical factors connected 4) was	
36-	For the first time, pain from a physito your state of mi 1) the association 3) that associated The visual treatment appropriate for a with the structure. 1) as it was by tha 1) That many poly 2) Polyatomic and 3) As many as poly	of days of lasting it is possible to discal cause, such as ind. ent was as much in modern architector 2) to be in t can take the place ratomic anions ons are so many	2) is associate 4) that of associate fluenced by stylister 3) being	ed octation is tic ideas of what was visually technical factors connected 4) was	
136-	For the first time, pain from a physi to your state of mi 1) the association 3) that associated The visual treatme appropriate for a with the structure. 1) as it was by tha 1) That many poly 2) Polyatomic anic 3) As many as poly 4) There are many	it is possible to discal cause, such as and. ent was as much in modern architector. 2) to be in tean take the place atomic anions ons are so many yatomic anions polyatomic anions.	2) is associate 4) that of associate fluenced by stylist are 3) being of monatomic anions	ed ociation is tic ideas of what was visually technical factors connected 4) was ons.	
37-	For the first time, pain from a physi to your state of mi 1) the association 3) that associated The visual treatme appropriate for a with the structure. 1) as it was by tha 1) That many poly 2) Polyatomic anic 3) As many as poly 4) There are many	it is possible to discal cause, such as ind. ent was as much in modern architector. 2) to be in t can take the place ratomic anions ons are so many yatomic anions polyatomic anions.	2) is associate 4) that of associate fluenced by stylist are 3) being of monatomic anions	ed octation is tic ideas of what was visually technical factors connected 4) was	
136-	For the first time, pain from a physito your state of mi 1) the association 3) that associated The visual treatment appropriate for a with the structure. 1) as it was by tha 1) That many poly 2) Polyatomic and 3) As many as poly 4) There are many in a 1) I found him cor	it is possible to discal cause, such as and. ent was as much in modern architector. 2) to be in t can take the place ratomic anions one are so many yatomic anions polyatomic anions our first meeting that the statement our first meeting that the statement of	2) is associate 4) that of associate fluenced by stylist are 3) being of monatomic anions	ed ociation is tic ideas of what was visually technical factors connected 4) was	
136-	For the first time, pain from a physi to your state of mi 1) the association 3) that associated The visual treatme appropriate for a with the structure. 1) as it was by tha 1) That many poly 2) Polyatomic anic 3) As many as poly 4) There are many	it is possible to discal cause, such as and. ent was as much in modern architectors 2) to be in t can take the place ratomic anions ons are so many yatomic anions polyatomic anions polyatomic anions four first meeting that tentious I found him	2) is associate 4) that of associate fluenced by stylist are 3) being of monatomic anions	ed ociation is tic ideas of what was visually technical factors connected 4) was	

Directions: Select the answer choice (1), (2), (3), or (4) that could best complete the

blank in the following questions. Then mark your answer on your answer sheet.

Part A. Grammar

تست خوبی هست . بعد از to نشان مصدر شکل ساده فعل می آید پس گزینه ۱ غلط است. از کلمه Roman Army(سپاه رم) و مفهوم جمله(با این فرض که در حال حاضر ارتش رم دیگر وجود ندارد!!!) درمی یابیم که به زمان گذشته نیاز داریم. لذا گزینه ۲ رد می شود.

> از بین ۲ گزینه باقی مانده ، گزینه ۴ ساختار استمرار دارد که طبیعتاً با جمله ما سازگار نیست. لذا پاسخ صحیح گزینه ۳ است.

> > نکته: در کلاس درس اشاره شد که فعل Have در ۴ نقش در جملات ظاهر می گردد:

• در نقش فعل کمکی • They have gone to school by bus

• در نقش فعل اصلی در معنای داشتن • در نقش فعل اصلی در معنای داشتن

• در نقش فعل اصلی در معنای خوردن •

• در نقش فعل اصلی به همراه to : در معنای باید ، اجبار • Have to go

سوال ۱۳۲:

n-1 تست ساده ای است. در کمتر از ۲۰ ثانیه باید به آن پاسخ داد. بدون نیاز به ترجمه یک آنالیز موصولی انجام می دهیم و n-1 را چک می کنیم.

ياسخ صحيح كزينه ٢ صحيح است.

سوال ۱۳۳:

تست خوب و بسیار آموزنده ای است. شاگردان من باید در این سوال حالت نیمه ملکوتی پیدا کنند!!!گزینه ۲ و۳ در حالت نیمه ملکوتی همواره غلط هستند.(قبل از That در حالت موصولی از کاما نمی توان استفاده کرد – which it دو ضمیر متوالی است و حشو می باشد).

گزینه ۱و۴ هر دو از لحاظ گرامری و ساختاری صحیح هستند ، چرا که n-1 را هم رد نمی کنند. فقط باید بررسی کرد نیاز به موصول کردن کلمه species داریم یا خیر. به دلیل وجود مفعول them متوجه میشویم که باید موصول کنیم. اگر قرار بود گزینه ۱ پاسخ صحیح باشد در واقع فاعل جمله هم چنان Defaunation بود که طبیعتاً اشتباه است. یاسخ صحیح گزینه ۴ صحیح است.

سوال ۱۳۴:

تست خوبی است. بدون نیاز به ترجمه یک آنالیز موصولی انجام می دهیم و n-1 را چک می کنیم. y

سوال ۱۳۵ :

یکی از تست های بسیار خوب آزمون هست. در پاسخ به این سوال به ترجمه و هیه مهارت دیگری نیاز ندارید تنها باید آنالیز موصولی را با دقت کافی انجام دهید همین. این که می گویم دقت کافی به دلیل وجود ۲ فروند P.P در صورت سوال هست!!! در کلاس گفتیم که P.P را Double Check می کنیم که ببینیم کدامیک از ۳ حالت ممکن را داراست. توضیح کامل بخواهم بدهم طولانی می شود در مجموع 1-n را چک می کنیم. لذا به راحتی می بینیم که: یاسخ صحیح گزینه ۳ صحیح است.

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: 189 Jun
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سوال خوب و منطقی است. به مبحث صفت برابری as + صفت/قید + as مربوط می شود.

در صورت سوال as much influenced آورده شده است لذا باید در ادامه به دنبال as دوم باشیم. به خاطر داریم که ساختار as....as هم یکی از حالات ساختار موازی(همپایه) بود که در مبحث ساختارهای موازی به آن اشاره شد. لذا به راحتی در می یابیم که :

ياسخ صحيح كزينه اصحيح است.

: 177, //aw

تست ساده ای است. یک آنالیز موصولی انجام می دهیم.

ياسخ صحيح كزينه ٢ صحيح است.

: 17% Jon

از تست های چالشی امتحان است!! می توان گفت گزینه کاملاً صحیح وجود ندارد. در گزینه ۴ ساختار صفت تفضیلی دیده میشود که جمله چنین ساختاری طلب نمی کند. گزینه ۳ هم همانطور که از ظاهرش هویداست با خودش مشکل دارد!!! حال باید بین گزینه ۱و۲ با هم بحث کنیم.

گزینه ۲ باید حالات وارونگی داشته باشد. در صورتی که قید + So یا صفت + So در ابتدای جمله بیاید وارونگی رخ می دهد. ولی ساختار گزینه ۲ وارونه نیست و لذا غلط است.

Subject-auxiliary inversion after SO + adverb / adjective and SUCH

When adverbial or adjectival phrases starting with so are placed at the beginning of the sentence for emphatic effect, the subject and auxiliary are inverted:

- So quickly did he run that the others couldn't catch up with him. (He ran so quickly that the others couldn't catch up with him.)
- So strong was the wind that we couldn't open the window. (The wind was so strong that we couldn't open the window.)

So + adjective can be replaced with such:

Such was the wind that we couldn't open the window. (The wind was such that we couldn't open the window.)

ONLY AFTER, ONLY IF, ONLY IN THIS WAY etc., NOT UNTIL

Subject-auxiliary inversion

Subject-auxiliary inversion in questions >

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Type	Examples	Notes
7. so that	So <mark>happy</mark> was I that I bought	Question form is obligatory.
	flowers for everybody in class.	Used with all verbs.
	So quickly did she leave that we did not even realize was gone.	The so that clause must before the verb in for this type of inversion.
	So rarely does a comet appear visible to the naked eye that when one does, it is considered a major event.	

اما گزینه ۱ هم دلچسب نیست و به نظر یک So کم دارد ولی در مجموع از بین گزینه های موجود: اگر بنا به ذکر گزینه باشد ، پاسخ ناگزیر گزینه ۱ است. در غیر این صورت تست پاسخ صحیح ندارد.

Part B. Vocabulary

Directions: Select the answer choice (1), (2), (3), or (4) that could best complete the blank in the following questions. Then mark your answer on your answer sheet.

139-	Since there is a huge between the results of the first and second experiment, the laboratory team will conduct a third test.				
	1) moderation	2) controversy			
	3) discrepancy	4) corruption			
140-		sphere in the room was negatively affected by an nger by one of those present, and presumably directed the company.			
	1) cordial	2) susceptible			
	3) quaint	4) tedious			
141-		rigerator while trying to fix it, you could possibly anty and find yourself responsible for all the repair costs.			
	1) elude	2) nullify			
	3) manipulate	4) postpone			
142-	A true scientist is not expected to let his compromise his scientific world				
	1) recognitions	2) argumentations			
	3) initiations	4) preconceptions			

143-	The attorney lost his license to practice when it was discovered he often took steps to evidence to keep his clients out of jail.			
	1) fabricate	2) substantiate		
	3) purify	4) intimidate		
144-	If there was an award for being, my aunt would win because she is always complaining about something.			
	1) benevolent	2) reticent		
	3) fanatical	4) querulous		
145-	Because education is not in all countries, there are many children who do not attend school.			
	1) autonomous	2) flexible		
	3) compulsory	4) authentic		
146-	Given such animals' rapid in numbers, she did not actually think she would ever get a chance to see one in the wild.			
	1) execution	2) domination		
	3) depletion	4) alienation		
147-	He her blank stare as boredom and stopped telling her about his new job.			
	1) construed	2) detested		
	3) scrutinized	4) regretted		
148-	The value of a college degree is worth more than the financial cost of obtaining a higher education.			
	obtaining a higher education.	college degree is worth more than the financial cost of		
		college degree is worth more than the financial cost of 2) intrinsic		
	obtaining a higher education.			
149-	obtaining a higher education.1) arbitrary3) complementary	2) intrinsic		
149-	obtaining a higher education. 1) arbitrary 3) complementary Interrogators were reportedly	intrinsic innovative		
149-	obtaining a higher education. 1) arbitrary 3) complementary Interrogators were reportedly information from him.	2) intrinsic 4) innovative frustrated by their inability to useful		
	obtaining a higher education. 1) arbitrary 3) complementary Interrogators were reportedly information from him. 1) elicit 3) extend He has got such a	2) intrinsic 4) innovative frustrated by their inability to useful 2) augment 4) speculate memory that even now, at the age of seventy, he can died in his school days.		
	obtaining a higher education. 1) arbitrary 3) complementary Interrogators were reportedly information from him. 1) elicit 3) extend He has got such a	2) intrinsic 4) innovative frustrated by their inability to useful 2) augment 4) speculate memory that even now, at the age of seventy, he can		

پاسخ تشریحی بخش لغات آزمون دکتری ۹۴ (گروه فنی و مهندسی و علوم پایه) و ارجاع آن به جزوه لغات زبان عمومی استاد نیک پور:

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سوال ۱۳۹ : گزینه ۳ صحیح است.

Moderation : قسمت ۱۱ صفحه ۷

Controversy : قسمت ۳ صفحه ۱۵

Discrepancy : قسمت ۱۲ صفحه ۳ – در کلاس ترم پاییز چندبار بر این لغت تاکید کردم.

Corruption : قسمت ۱۴ صفحه ۱ و قسمت

سوال ۱۴۰ : گزینه ۱ صحیح است.

Susceptible : قسمت ۱۲ صفحه ۵

Quaint : لغت پرکاربرد و مفیدی نیست . خود من برای اولین بار است که این لغت را میبینم!!! طبیعتاً در کتابم هم نیاوردم و نخواهم آورد. در معنای چیزیست که به خاطر قدیمی بودنش جذاب است!!!

a حفحه و تسمت ۴ صفحه ت

سوال ۱۴۱: گزینه ۲ صحیح است.

Elude : قسمت ۱ صفحه ۶ – در کلاس درس چندین بار تاکید شد که Delude و Elude را با هم یاد بگیریم. در جزوه هم این لغات را پشت سر هم قرار دادم. اگر خاطرتان باشد همین تاکید را در مورد دو لغت Preclude و Preclude هم داشتیم.

ا Nullify : قسمت ۱۰ صفحه ۵

Manipulate : قسمت ۹ صفحه ۷ – در كلاس نكته و تست لغت دانشگاه اميركبير مثالي براي اين لغت زده شد.

Postpone : قسمت ۵ صفحه ۷

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سوال ۱۴۲ : گزینه ۴ صحیح است.

Recognition : قسمت ۱ ، قسمت ۵ ، قسمت ۵

Argumentation : قسمت ۲ ، قسمت ۸ ، قسمت ۸

Initiation : قسمت ۴ صفحه ۱۸

Preconception : قسمت ۳ صفحه ۹ ، قسمت ۹ صفحه۲

سوال ۱۴۳ : گزینه ۱ صحیح است.

Fabricate : قسمت ۶ صفحه ۴ – در کلاس ۱ روزه یکی از دانشگاه ها به معنای این لغت اشاره کردیم و بیان شد که معنای این لغت با معنایی که از کلمه Fabric در فارسی در ذهن داریم کاملاً متفاوت است. حتی به میزان عشق و علاقه طراح به این لغت هم اشاره شد!!!

Substantiate : قسمت ٨ صفحه ١٧

Purify : قسمت ١٠ صفحه ٢

Intimidate : قسمت ۱۲ صفحه ۱ – در جزوه این لغت و لغت Timid در کنار هم آورده شده اند. در کلاس تر م پاییز هم به معنای این دو لغت در کوییز کلاسی اشاره

سوال ۱۴۴ : گزینه ۴ صحیح است.

Benevolent : قسمت ۱۶ صفحه ۶

Reticent : قسمت ۱۵ صفحه ۵ – لغت بسیار زیبایی است!

a حفحه ا: قسمت ۱۶ صفحه

Querulous : از آن دسته از لغات کم کاربرد و غیرضروری هست که طبیعتاً در کتاب آورده نشده است. در این تست با رویکردی مشابه تست ۱۴۶ زبان عمومی گروه علوم انسانی ، از آنجایی که معنی ۳ گزینه دیگر را میدانیم با اطمینان می گوییم گزینه ۴ که حتی معنی آن را نمیدانیم پاسخ صحیح است. این یکی از استراتژی ها ما برای پاسخ به سوالات واژگان است.

سوال ۱۴۵ : گزینه ۳ صحیح است.

Autonomous : قسمت ۱۰ صفحه ۲

Flexible : قسمت ۱۱ صفحه ۹

Authentic : قسمت ۳ صفحه ۱ ، قسمت ۱۲ صفحه ۱

سوال ۱۴۶ : گزینه ۳ صحیح است.

Execution : قسمت ۶ صفحه ۱۱ - جالب است بدانيد execute علاوه بر معناي اجرا كردن معناي اعدام كردن! هم ميدهد.

Domination : قسمت ۶ صفحه ۸

Depletion : قسمت ۳ صفحه

Alienation : می تواند لغت خوبی باشد . در کتب آموزشی زبان ترمیک زیاد این لغت رو می بینید. Alien در معنای بیگانه ، غریبه ، به اصطلاح خارجی هست. در

سوال ۱۴۷ : گزینه ۱ صحیح است.

Construe : لغت خوبی است. در معنای تعبیر کردن و تفسیر کردن است. در ویرایش اردیبهشت ماه به کتاب اضافه خواهد شد.

Detest : قسمت ۵ صفحه ۱۷ و قسمت ۱۰

Scrutinize : قسمت ۱۲ صفحه ۱ – لغت بسيار زيبايي است!

Regret : قسمت ۱۶ و مثال صفحه ۷ قسمت ۵

سوال ۱۴۸: گزینه ۲ صحیح است.

Arbitrary : قسمت ۲ صفحه ۲ - در ۲ کوییز کلاسی به این لغت اشاره شده بود.

Intrinsic : قسمت ۳ صفحه ۱۵ – لغت بسیار پرکاربرد و زیبایی است! به خاطر ندارم در کلاسی به اهمیت این لغت و مترادفهای پرتکرار آن همچون Innate,Inner,Inherent اشاره نکرده باشم!

Complementary : قسمت ۶ صفحه ۱۱ – در جزوه این لغت یعنی Complement را در کنار لغت Compliment آورده ام.تاکید کردم که هر دورا با هم فرا بگیرید. complement یعنی مکمل ، متمم و compliment یعنی تعریف و تعارف.

Innovative : قسمت ۱۳ صفحه ۳

سوال ۱۴۹: گزینه ۱ صحیح است.

Elicit : قسمت ا صفحه ۵

Augment : قسمت ۱۶ صفحه ۱

Extend : قسمت ۷ صفحه ۱۵ و قسمت ۷ صفحه ۱ – در کلاس درس برای مثال این لغت به extension موی بانوان اشاره شد!!! در یکی از تست های کوییز کلاسی هم به عبارت Extended Time در معنای ::زمان تمدید شده:: اشاره شد.

Speculate : قسمت ۱۳ صفحه ۴

سوال ۱۵۰ : گزینه ۳ صحیح است.

Vigilant : قسمت ١٣ صفحه ٢ – Vigilant را با Diligent در کنار هم ياد ميگيريم!

Deft : قسمت ۱۲ صفحه ۴ – در کلاس نکته و تست لغت دانشگاه امیرکبیر به این لغت و مترادفهایش همچون Adept,Expert,Skillful اشاره کردم. حال که صحبت از Adept شد خالی از لطف نیست Adept و Adopt و Adapt را در کنار هم یاد بگیرید!

Prodigious : لغت بسیار زیبایی است! اسم آن یعنی Prodigy هم کلمه بسیار خوبی است. به شکل غریبی چک کردم در کتاب نبود!!! گویا از دست ما در رفته بوده! لذا حتماً در ویرایش اردیبهشت ماه به کتاب اضافه خواهد شد.

Feasible : قسمت ۵ صفحه ۶ و قسمت ۱۰ صفحه ۵ – در کلاس تر م پاییز برای تثبیت معنای این لغت به عبارت Feasibility Study در معنای مطالعه امکان سنجی اشاره شد.

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پاسخ تشریحی بخش درگ مطلب زبان عمومی آزمون دکتری ۹۴ (گروه فنی مهندسی و علوم پایه):

Passage 1:

These days the popular mantras for stimulating creativity frequently extol the virtues of thinking outside the box: "There are no wrong answers." "Consider all options." "Break the boundaries that prevent you from innovating." But not all boundaries should be broken. Some are real and need to be respected. Sometimes it is best to know how to think creatively inside the box.

If you identify constraints that any solution to a specific problem must obey, you can channel your search into more productive directions. Eventually you must always figure out which of your possible solutions are workable and which are not. By imposing

constraints on your solution search—in effect, understanding what box they will ultimately have to fit into—you can filter out unworkable ideas before they take shape and see the real solutions more easily.

Becoming aware of the relevant constraints can be powerfully liberating. Filtering out your thoughts this way may at first seem as though it would censor potentially good ideas. But, on the contrary, identifying the underlying attributes of real solutions can actually help generate ideas.

When you are faced with a difficult problem, it's all too easy to get caught up in what you don't know. So instead begin by figuring out what you do know about the solution, even if it is incomplete. Identify all the attributes that will be a necessary part of any workable solution. These necessary attributes are the principles (mathematicians call them axioms) that will serve as problem-solving catalysts. A great advantage of this principle-centered approach is that it helps to focus your search by preventing you from having to start from scratch every time you run into a roadblock.

151- What is the best title for the passage?

- 1) How to Be Creative
- 2) Principled Problem Solving
- 3) Virtues of Brainstorming
- 4) Thinking Outside the Box: Pros and Cons

152- Which of the following best describes the author's attitude towards the quoted statements in paragraph 1?

1) Pointed opposition

2) Reproachful and disturbed

3) Skeptical but resigned

4) Partial endorsement

- come up with a number of workable and unworkable plans between which you cannot make a distinction
- never be able to extricate yourself from popular, non-academic approaches to problem solving
- 3) beat more about the bush due to not having channeled your search already
- 4) find yourself imprisoned within a hypothetical box of limited viable options

154- Which of the following statements is the author more likely to agree with?

- 1) Letting constraints filter and guide your thinking can often be the best way to reach truly creative solutions.
- 2) Becoming aware of the relevant constraints may adversely affect the generation of certain pragmatic solutions.
- When faced with a difficult problem, getting caught up in a web of relevant and irrelevant constraints is inevitable.
- 4) When solving problems, make no use of that part of your background knowledge that is part of folk culture.

155- According to the passage, the "necessary attributes" mentioned in paragraph 4

1) can be the end result of work in mathematics

- 2) may at times prove to be too difficult to identify in the first place
- 3) can help accelerate the search for the right solution to a problem
- 4) are organic to the integrity of not only mathematics but also chemistry

سوال ۱۵۲: گزینه ۴ صحیح است. سوال ۱۵۳: گزینه ۱ صحیح است. سوال ۱۵۴: گزینه ۳ صحیح است. سوال ۱۵۵: گزینه ۳ صحیح است.

Passage 2:

The world's honeybees appear to be dying off in horrifying numbers, and now consensus is starting to emerge on the reason why: it seems there is no one cause. Infections, lack of food, pesticides and breeding—none catastrophic on their own—are having a synergistic effect, pushing bee survival to a lethal tipping point. A somewhat anti-climactic conclusion it may be, but appreciating this complexity—and realizing there will be no magic bullet—may be the key to saving the insects.

A third of our food relies on bees for pollination. Both the US and UK report losing a third of their bees last year. Other European countries have seen major die-offs too: Italy, for example, said it lost nearly half its bees last year. The deaths are now spreading to Asia, with reports in India and suspected cases in China.

But while individual "sub-lethal stresses" such as infections are implicated, we know little about how they add together. The situation should become clearer in the next few years as the US government, the EU and others are pouring money into bee research. The UK, for example, has doubled its annual research budget, allocating £400,000 a year for the next five years.

On top of that, the UK National Bee Unit will get £2.3 million to map the problem. This money is urgently needed, says Peter Neumann of the Swiss Bee Research Centre in Berne, who runs COLLOSS, a network of researchers studying colony loss in 36 countries. "We don't have the data to assess the situation in Europe, never mind the world," he says.

The main stress facing bees is the varroa mite, a parasite from Siberia that has now spread everywhere but Australia. Mite infestations steeply reduce bees' resistance to viral infection. Worryingly, the mites are developing resistance to the pesticides used to control them, forcing beekeepers to use methods that are often less effective.

French and German beekeepers blame their losses on insecticides called neonicotinoids—but France banned them 10 years ago and its bees are still dying. Neumann suspects a wider problem, citing experiments showing that agricultural chemicals that are safe for bees when used alone are lethal in combination. "Farmers increasingly combine sprays," he says. They also leave few flowering weeds, depriving bees of essential nutrients from different kinds of pollen, he adds.

156- Which of the following best describes "this complexity" as it is used in paragraph 1?

- 1) Honeybee's survival being uncertain
- 2) Honeybees' being attacked on many fronts
- 3) The unpromising prospect for saving honeybees
- 4) The intricate relationship between saving all insects and saving honeybees

157- What is the function of paragraph 2 in relation to paragraph 1?

- 1) It qualifies the conclusion made in paragraph 1.
- It provides specific information lending support to the problem portrayed in paragraph 1.
- 3) It questions the possibility of finding a solution to the problem described in paragraph 1.
- 4) It brings in facts and figures disproving the claim made in paragraph 1 to the effect that honeybees are actually being pushed to a lethal tipping point.

158- The passage provides sufficient information to answer which of the following questions?

- 1) Why did Italy lose fewer honeybees than the US and the UK?
- 2) Why does the author state that each single cause of honeybee die-offs is not

- catastrophic on its own?
- 3) Why is Siberia a good place for the growth of a parasite that is said to be the main culprit for honeybees' dying off across the world?
- 4) Why is it that the author claims that the synergistic effect of various causes of honey bee losses would be clearer in the near future?

159- The word "them" in paragraph 5 refers to

1) mites

2) pesticides

3) infestations

4) bees

160- Why does the author mention "France" in the last paragraph of the passage?

- 1) To emphasize the inefficacy of current anti-parasite strategies
- 2) To refer to the length of the existence of a persistent problem
- 3) To introduce a country with a novel solution
- 4) To refute an earlier assertion

سوال ۱۵۶: گزینه ۲ صحیح است. سوال ۱۵۷: گزینه ۲ صحیح است. سوال ۱۵۸: گزینه ۴ صحیح است. سوال ۱۵۹: گزینه ۱ صحیح است. سوال ۱۵۹: گزینه ۱ صحیح است.

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