แบบทดสอบ SAMSEN PRETEST 2020



เพื่อเตรียมความพร้อมในการศึกษาต่อระดับชั้นมัธยมศึกษาตอนต้น ห้องเรียนพิเศษ ปีการศึกษา 2563 จัดโดย สมาคมผู้ปกครองและครูโรงเรียนสามเสนวิทยาลัย รอบเช้า เวลา 08.30 – 12.00 น.

คำชื้แจง

- 1. ห้ามเปิดข้อสอบก่อนที่กรรมการควบคุมห้องสอบจะอนุญาต อ่านคำชี้แจงที่ปกหน้า
- 2. แบบทดสอบ ฉบับที่ 2 : <u>วิชาภาษาอังกฤษ</u>
 วิชาภาษาอังกฤษ แบบเลือกตอบ 5 ตัวเลือก จำนวน 60 ข้อ คะแนนเต็ม 100 คะแนน
- 3. เวลาในการทำข้อสอบทั้งฉบับรวม 3 วิชา **วิชาคณิตศาสตร์ วิทยาศาสตร์ ภาษาอังกฤษ** 210 นาที
- 4. กระดาษคำตอบ มี 2 แผ่น
 - แผ่นที่ 1 ใช้กับวิชาคณิตศาสตร์และวิชาวิทยาศาสตร์ ต้องเขียนชื่อ สกุล นักเรียน ห้องสอบ เลขที่ (ในห้องสอบ) และเลขประจำตัวสอบ ลงในช่องว่างที่กำหนดให้ เขียนเลขประจำตัวสอบจำนวน 6 หลัก ลงในช่องเลขประจำตัว แล้วระบายในวงกลมที่มีหมายเลขตรงกับตัวเลขที่เขียนไว้ในช่องด้านบนให้ครบทั้ง 6 หลัก
 - แผ่นที่ 2 ใช้กับวิชาภาษาอังกฤษ ต้องเขียนชื่อ สกุล นักเรียน ชั้น ม.1 เลขที่ (ในห้องสอบ) และเลข ประจำตัวสอบ ลงในช่องว่างที่กำหนดให้ เขียนเลขประจำตัวสอบจำนวน 6 หลัก ลงในช่องเลขประจำตัว แล้ว ระบายในวงกลมที่มีหมายเลขตรงกับตัวเลขที่เขียนไว้ในช่องด้านบนให้ครบทั้ง 6 หลัก
- 5. คำตอบแต่ละข้อที่นักเรียนตอบ ต้องใช้ดินสอ 2B ขึ้นไปในการระบายคำตอบเท่านั้น ลงในกระดาษคำตอบ และให้ตรงกับข้อคำถาม
- 6. <u>ไม่อนุญาต</u>ให้ใช้เครื่องคิดเลข โทรศัพท์หรือเครื่องมืออิเล็กทรอนิกส์ใดๆ
- 7. <u>นักเรียนจะออกจากห้องสอบได้เมื่อหมดเวลาสอบ</u> โดยวางกระดาษคำตอบ กระดาษทด และ แบบทดสอบไว้บนโต๊ะ
- 8. กระดาษทุกแผ่น เช่น แบบทดสอบ กระดาษคำตอบ กระดาษทด (ถ้ามี) จะถูกเก็บคืนทั้งหมด <u>ไม่อนุญาตให้นำออกนอกห้องสอบโดยเด็ดขาด</u>
- 9. การตัดสินของคณะกรรมการถือเป็นข้อยุติ

แบบทดสอบฉบับนี้ เป็นลิขสิทธิ์ของสมาคมผู้ปกครองและครูโรงเรียนสามเสนวิทยาลัย ห้ามเผยแพร่ อ้างอิง ตัดต่อ ดัดแปลงหรือเฉลย ก่อนได้รับอนุญาต



แบบทดสอบ SAMSEN Pre - Test 2020

เพื่อเตรียมความพร้อมในการศึกษาต่อระดับชั้นมัธยมศึกษาตอนต้น จัดโดย สมาคมผู้ปกครองและครูโรงเรียนสามเสนวิทยาลัย วันอาทิตย์ที่ 8 ธันวาคม 2562 รอบเช้า เวลา 08.30 – 12.00 น. ห้องเรียน พิเศษ รอบเช้า

วิชาภาษาอังกฤษ (กระดาษคำตอบแผ่นที่ 2 ข้อที่ 1 – ข้อที่ 60) คำชี้แจง แบบทดสอบวิชาภาษาอังกฤษ คะแนนรวม 100 คะแนน เป็นแบบเลือกตอบ 5 ตัวเลือก จำนวน 60 ข้อ

Dir	ections: Choose the best answer.		
1.	While all students in the class	sroom, the history teacher	in.
	1. shouting / came	2. was shouting / came	3. were shouting / came
	4. shouted / was coming	5. shouting / was coming	
2.	My sister and I have something in co	mmon. Every week we	to the cinema, but this week my
	sisterher project. So, I have	e to see <i>Frozen II</i> alone.	
	1. go / is doing	2. go / does	3. are going / does
	4. went / was doing	5. went / is doing	
3.	The first Olympics in Athens	in 1894, and since then more	than a dozen different countries
	the Summer Olympics.		
	1. took place / have staged	2. was taking place / staged	3. were taken place / staged
	4. took place / stage	5. have taken place / would s	tage
4.	Teddy and Sam to eat at th	at restaurant again. They found	the cockroach in the dish.
	1. going to	2. aren't going	3. will go
	4. will not go	5. would go	
5.	Hea millionaire some	day if he plays the lottery.	
	1. becomes	2. will becomes	3. may become
	4. could became	5. would become	
6.	My brothers go to school c	on Saturdays as he has special c	classes.
	1. has to 2. have to	3. mustn't 4. do no	ot have to 5. does not have to
7.	In 1952, Audrey Hepburn, a famous a	actress, engaged to a p	layboy, but she decided not
	to get married and gave her wedding	dress to a couple who	have enough money for a
	wedding.		
	1. was / didn't	2. didn't / was	3. hasn't / is
	4. wasn't / doesn't	5. doesn't / was	

٥.	Mark Larsen, who won hine mid	ion pounds on the tottery, was unr	nappy because			
	friends asked him for money, and he had arguments with his wife. He says, "I feel					
	lonely now. Life was better if I didn't have money.					
	1. a lot of / much / any	2. some / a lot of / much	3. any / many / much			
	4. a few / many / some	5. many / a lot of / a few				
9.	Interviewer: What makes you	feel happy?				
	Interviewee: my favorite TV program at home. I don't need out when					
	not feeling well.					
	1. Watching / to go	2. To watch / going	3. Watch / to go			
	4. To watching / to going	5. Watching / going				
10.	People say that life is	in the countryside, but I don't ag	gree. The birds are so loud,			
	and they often wake me up!					
	1. as quiet as	2. quieter than	3. the most quiet			
	4. the quietest	5. the more quiet				
For	Items 11-15 Choose the best	alternative to complete the artic	le			
	Thousands of teenagers post of	on social networks every day. So far	, it(11.)the most			
ро	opular way for them to communi	cate. Why is it so popular, and do v	ve use it too much?			
	Firstly, social networks are a qu	uick, easy and cheap way to tell yo	ur friends your news. You			
са	n also post photos and weblinks	, and share music and video clips	(12.), you can			
cc	ombine it with other computer ac	tivities.				
	On the other hand, there are r	negatives, too. For one thing a lot o	f friends aren't friends			
ar	nymore. If you(13.), you	'll share personal information with	complete strangers. Lastly,			
so	ome people(14.) only so	ocialize online.				
	On balance. I don't think teen	agers use these sites too much and	(15.) our friends			
11.	1. becomes	2. became	3. will become			
	4. has become	5. are becoming				
12.	1. Although	2. In contrast	3. In addition			
	4. However	5. As a result				
13.	1. are careful	2. aren't careful	3. don't careful			
	4. won't be careful	5. wouldn't be careful				

14.	1. can	2. must		3. might	
	4. had better	5. was able to			
15.	1. they meet	2. we've met		3. we'll meet	
	4. we still meet	5. they're meet	ing		
For	Items 16 – 20 Choose the best a	alternative that m	akes the sente	nce grammatically incorrect.	
16.	My neighbors, Marie and Pierre, lov	e <u>theirs</u> kids and w	e love <u>ours</u> . Th	e children usually <u>play</u>	
		1.	2.	3.	
	together <u>every morning</u> in the park	near <u>our</u> villages.			
	4.	5.			
17.	When I <u>was</u> young, my grandfather	took me to see th	e sky <u>in front of</u>	his house. I saw the stars	
	1.	2.	3.		
	shining <u>bright</u> in a clear <u>blue</u> sky qu	iite often.			
	4. 5.				
18.	James <u>works</u> hard <u>during</u> the week, so he likes to relax <u>on</u> weekends. He usually <u>spends</u> his				
	1. 2.		3.	4.	
	time on the beach <u>at</u> Paris, France.				
	5.				
19.	Mel has <u>been</u> to many countries, in	cluding the Portug	<u>al</u> , Singapore ar	nd Australia, and has lived	
	1.	2.			
	in the northern hemisphere and the	e southern hemisp	here, as well as	on <u>the</u> equator.	
	3. 4.			5.	
20.	What <u>would</u> you <u>do</u> if you <u>were</u> the	richer person aliv	<u>e</u> ?		
	1. 2. 3.	4. 5.			
For	Items 21 – 30 Choose the best a	lternative to com	plete the sent	ence.	
	Recycling is a piece of cake. It beco				
	do easily is to the waste.				
	1. walk out	2. sort out		3. stand out	
	4. throw out	5. leave out			
22.	After Adam for a week, h	ne finally accepted	the project pro	pposal.	
	1. got over	2. took over		3. looked over	
	4. turned over	5. thought over			

23.	Some teenagers become real geeks v		who are extremely $_$	in a partico	a particular subject and	
	know a lot about i	t.				
	1. tired		2. boring	3. inte	erested	
	4. amazing		5. disappointed			
24.	Although some pe	ople don't like Li	GBT people, some are	not at the	ne way they live	
	their lives.					
	1. happy		2. acceptable	3. sur	orised	
	4. excited		5. disgusted			
25.			contrast, my sister is v			
	1. bold	2. brave	3. naive	4. outgoing	5. naughty	
26.	After my mum	the bed	, she the laund	dry.		
	1. make / do	2. do / make	3. did / made	4. made / did	5. did / make	
27.	7. Some people prefersport and golf.		rts rather than team s	ports. These includ	e boxing, fencing	
	1. fighting	2. indoor	3. martial	4. outdoor	5. individual	
28.	Most children cannot		_ before they discuss with their parents.			
	1. do their best		2. take a chance	3. mal	ke a decision	
	4. take an interest		5. make a promise			
29. I often from my grandmother because she's v				e's very clever and	wise.	
	1. have fun		2. keep in touch	3. rece	eive some money	
	4. have a relationship		5. receive some good advice			
30.	Jennie never helps her friends - she's really					
	1. impatient		2. impossible	3. unr	eliable	
	4. unsupportive		5. unnecessary			

For Items 31 – 33 Choose the best alternative to complete the conversation.

At a hospit	tal			
Doctor:		(21)		
	Good afternoon.			
Patient:	I have a bad cough a		2.	
Doctor:	(32.)	\$		
Patient:	About four days nov			
Doctor:	Hmm it sounds like	e you've got th	ne flu(33.) two capsules after	
31. 1. How c	an I advise?		2. What do you have?	
3. What a	are you finding?		4. What causes your problem?	
5. What s	seems to be the proble	m?		
32. 1. When	. 1. When did you start?		2. Where did you get it?	
3. What t	3. What time do you take a rest?		4. What did you do to your head?	
5. How lo	ong have you had these	symptoms?		
33. 1. Have a	a lot of rest		2. Take this medication	
3. Drink t	3. Drink three glasses of water		4. Apply this on the headache	
5. It all d	epends on when you ea	at		
For Item 34	Choose the best alter	rnative to com	plete the conversation.	
Milan: Freja	l! I've been looking for y	ou. So, how di	d the talk go?(34.)	
Freja: Yes,	it was fine. I was so ner	vous, though. B	aut I had quite a few people – not too many –	
and	got some really good	questions, so th	nat was helpful. And I can relax and enjoy the	
rest	of the conference now			
34. 1. Was it	helpful?		2. Was it a disaster?	
3. How w	as the conference?		4. Did you get hard questions?	
5. Did you	ur presentation turn out	: well?		

 $\underline{\text{For Items 35-37}}$ Choose the best alternative to complete the following conversation.

	Bob : Dan isn't here. He's at the new school in Ireland, and we haven't got a guitarist for		
	our band!		
	Sam:	I play the guitar	
	Bob:	We need a new guitarist(35.)	<u> </u>
	Jack:	Hmm. My cousin, Molly's got a guitar.	. She's got long hair. She's the perfect rock
		guitarist.	
	Sam:	But I play the guitar	
	Bob:	But does she want to be in a band? A	sk her, Jack! Invite her to our club after school.
	At the c	club after school	
	Molly:	Hi everyone. So, this is Bob's band	What do you need?
	Bob:	We need a guitarist(36.)	<u> </u>
	Molly:	I like listening to rock, but I don't like	playing it. I love playing classical guitar.
	Jack:	Ah. We play rock and pop, but	(37.)
	Sam:	I play the guitar.	
	Molly:	Well, sorry. I can't help you.	
	Jack:	Now what do we do?	
	Sam:	I PLAY THE GUITAR!	
35.	1. ls	Molly your cousin?	2. Does your cousin have a guitar?
	3. W	nat's your cousin's name?	4. Ask her if she wants to join our band
	5. Ha	ve you got a friend with a guitar?	
21	1.0-	11	
36.		you like rock music?	2. Can you play the guitar?
		nat is your favorite music?	4. Are you good at playing the guitar?
. 7		ve you got a classical guitar?	
37.		e love classical music also	2. we don't have the guitarist
			4. we're talented at all types of music
	5. we	e don't know much classical music	

For Items 38 – 40 Choose the best alternative to complete the following conversation.

Receptionist:	Good morning, GigaTeam	n?				
Mrs. Grayden: Good morning. This is Lisa Grayden of Edwin Cooperation.						
	Could I speak to Mr. Parker, please?					
Receptionist: I'm sorry,(39.) right now. May I take a message?						
Mrs. Grayden:	Mrs. Grayden: Sure, would you ask him to call me this afternoon?					
Receptionist:	Receptionist: Certainly,?					
Mrs. Grayden:	It's G-R-A-Y-D-E-N.					
Receptionist:	Let me repeat, G-R-A-Y-D)-E-N.				
Mrs. Grayden:	Yes, my phone number i	s 542-4395.				
Receptionist:	Receptionist: Thank you, Mrs. Grayden. I'll give him the message as soon as Mr. Parker returns.					
Goodbye.						
Mrs. Grayden:	Goodbye. Have a nice d	ay.				
38. 1. May help you 2. May stay here 3. May talk to you						
4. May I say anything			3. May I talk to you			
4. May I say anything 5. May I order something						
39. 1. he's doing		2. he's speaking	3. he's not available			
4 he's being here		5 he's talking with you				

- 40. 1. could you phone again
 - 3. could you leave a message
 - 5. could you give me your first name
- 2. could you talk to me instead
- 4. how can you spell your last name

For Item 41 Read the following sign and choose the best answer to the question.

41. What is CORRECT according to the sign below?



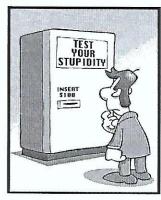
- 1. You cannot park here in any cases.
- 2. Cars in this area will be towed away.
- 3. If you want your car tow away, you cannot park this area.
- 4. You can park for a while here if your car has some accident.
- 5. There are always accidents in this area; you cannot park in any cases.

For Item 42 Read the following chat conversation and choose the best answer to the question.



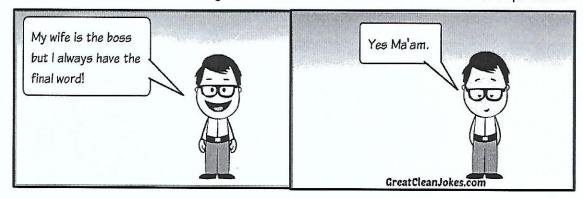
- 42. According to the conversation, what is Mark's roommate like?
 - 1. He is quite selfish.
 - 2. He doesn't like Mark.
 - 3. He is very considerate to Mark.
 - 4. He prefers using Mark's shampoo.
 - 5. He always shares his things to Mark.

For Item 43 Read the following text on the machine and choose the best answer to the question.



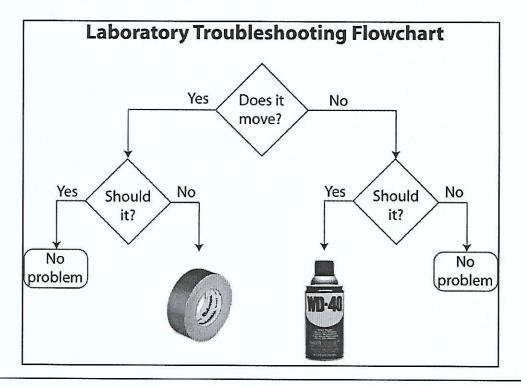
- 43. Who might be trapped by the machine?
 - 1. People who are not rich
 - 2. People who are in a hurry
 - 3. People who are intelligent
 - 4. People who are not clever enough
 - 5. People who are good at communication

For Item 44 Read the following cartoon and choose the best answer to the question.



- 44. From the cartoon, which is the most probably CORRECT about the man?
 - 1. He doesn't mind what his wife wants.
- 2. He rarely refuses what his wife wants.
- 3. He wants his wife to do what she wants. 4. He never lets his wife do what she wants.
- 5. He can't stand accepting what his wife does.

For Item 45 Read the following flowchart and four given statements. Then, choose the best answer to the question.



- A) To fix an object that should move, and it moves, you can apply a duct tape on it.
- B) To fix an object that should not move but moves, you can apply a duct tape on it.
- C) To fix an object that should move but does not, you can spray metal lubricant on it.
- D) To fix an object that should not move, and it does not move, you can spray metal lubricant on it.
- 45. Which of the given statements are CORRECT?
 - 1. A only

2. B only

3. B and C

4. C and D

5. B, C, and D

T'M TELLIN YA, THERE'S FATHER TO SHOW YOU AND IT'S MAGICAL ABOUT AN ARCADE...

ARCADE GAMES' FROM THE OLD GAMES' FROM THE OLD DAYS...

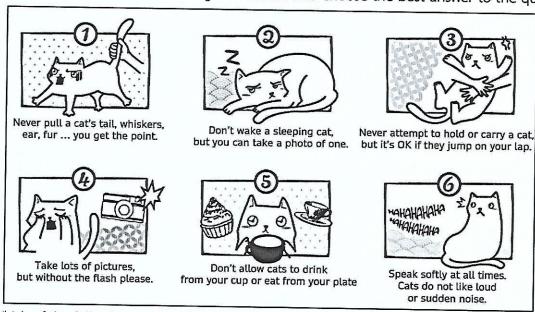
ARCADE GAMES' FROM THE OLD DAYS...

ARC

For Item 46 Read the following comic strip and choose the best answer to the question.

- 46. According to the comic strip, which of the following is INCORRECT?
 - 1. "Arcade games are just ..., magical," Luna said.
 - 2. Luna just learned that arcade games were interesting.
 - 3. Luna did her duty to show an arcade game to the man.
 - 4. The man is Luna's father who really loves arcade games.
 - 5. The man stated that there is just something magical about an arcade.

For Items 47 – 48 Read the following instructions and choose the best answer to the question.



- 47. Which of the following can people do with the cats?
 - 1. Cuddle the cats,

2. Share drinks with the cats.

3. Selfie with the cats.

- 4. Shout to the cats loudly.
- 5. Use the flash with taking pictures of the cats.
- 48. Which of the following can you see the instructions?
 - 1. a zoo
- 2. a café
- 3. a park
- 4. a supermarket
- 5. a veterinarian's

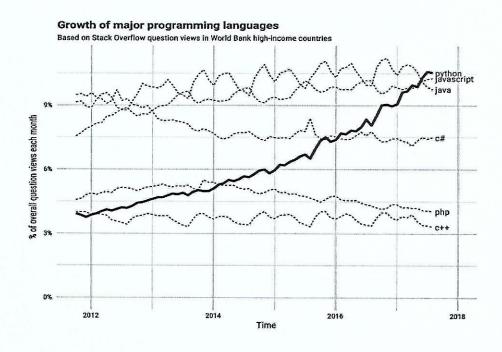
For Item 49 Look at the following picture and choose the best answer to the question.



- 49. Which of the following word has the same meaning as the word 'pronounce' in the dialogue?
 - 1. argue
- 2. discuss
- 3. conclude

- 4. persuade
- 5. announce

For Item 50 Look at the following graph and choose the best answer to the question.



- 50. According to the graph, which of the languages is the least popular in 2012?
 - 1. c#
- 2. c++
- 3. php
- 4. javascript
- 5. python

For Item 51 – 53 Read the following email and choose the best answer to the question.

To: Clint Barton

From: Natasha Romanoff

RE: University Retention Rate by Age

Hi Clint,

Here is my analysis of the statistics we received yesterday:

I separated the population of university students into a sample group. There are 1,000 students in the sample, with a range between eighteen and twenty-two years old. We analyzed how many of them transferred or drop out at that age. The mean is 19, the median is 18.5, and the mode is 18. Conclusion: Students are most likely to leave school between ages eighteen and nineteen.

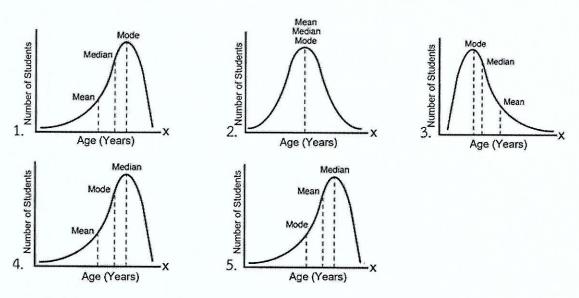
The university requested recalculations before we submit our findings. I attached a copy of the raw data. That way, you can perform the calculations yourself. I didn't calculate the mean absolute deviation. Would you do that? Also, make sure to highlight any variations or deviations in the data set. We'll have to account for any variance.

Let me know if you have any questions.

Natasha

- 51. What was the finding of the study mentioned in the email?
 - 1. There are 1,000 students in the population group.
 - 2. Students are less likely to drop out at the age of 17.
 - 3. The sample group is students between the ages of 18 and 19.
 - 4. It is most likely that students drop out between ages of 18 and 19.
 - 5. The mean absolute deviation of the data set could not be calculated.
- 52. Which of the following cannot be found in the email?
 - 1. a copy of the raw data
 - 2. a peer review of the analysis
 - 3. an interpretation of the data
 - 4. a detailed description of the sample group
 - 5. none of the following

53. Which of the following figure can best represent the analysis in the email?



For Items 54 - 55 Read the following paragraph and choose the best answer to the question.

Games are important at any age to keep your mind sharp, learn new things, and maintain social skills. People say you can't teach an old dog new tricks. Modern research has shown that senior people can continue to grow brain cells by exercising their mind. Games are a great way to help develop your mind. By concentrating on the tactics of the game, memorizing moves, and learning your games strategies, you can keep your brain functioning and growing. Besides playing games is the easiest way to learn the way people interact and react as they play while it helps build the relationship among people. Regardless of your age, people should play games in order to gain the benefits.

54. What can be inferred from the passage?

- 1. Games can be used to help senior people learn new things.
- 2. Games can educate skills; senior people should play games.
- 3. There are a lot of benefits of spending much time playing games.
- 4. Games are important for everyone who wants to train their mind.
- 5. Playing games can help people learn new things and build relationship.

- 55. According to the passage, which statement is INCORRECT?
 - 1. Games can help senior people develop their mind.
 - 2. Senior people can learn new things by playing games.
 - 3. Games can help people make a good relationship to each other.
 - 4. Games are important for everyone who wants to grow brain cells.
 - 5. Modern research has shown that people at any age should play games.

<u>For Items 56 – 58</u> Read the following article and choose the best answer to the question.

Too Much Technology

Have you ever walked down the street and noticed that almost every single person is walking with their face down watching on the screen? It seems that technology has completely taken over lives today! Kids aren't getting outside and playing anymore, so they don't have imagination and they certainly aren't getting any exercise. Too much technology in our lives means that we don't have real conversations and therefore we are becoming disconnected from each other. Technology makes us stressed and frustrated, so it is time that we take a break and drag our eyes away from the screens.

Children today lack imagination and aren't able to just go outside and play. They spend so much time staring at a screen and playing games that they no longer have the skills needed to be creative and have fun without technology. All this time spent sitting down using technology is definitely bad for the health of the children in our country. Kids should be out in the fresh air, running around, and having fun, not shut in a dark, dreary room staring at a screen like zombie.

Technology is also tearing families and friends apart. Instead of having a real conversation with our family and friends, we are having disjointed and unrealistic conversations using social media. This means that we aren't really show each other our true selves. We need to have face to face conversations in order to truly connect with people. Is it really that hard to put down the phone and have the proper conversation with someone?

It is also important to realize that technology can make us frustrated and angry. This is especially true when things start to break down and not work. Starting down at a screen all day is not good for our mental health and make up tired and irritated. Everyone would be so much happier if they gave up the technology and went outside for a lovely long walk or had a nice picnic. Technology is *irritating*, and awful.

Overall, it is very clear that our lives would be so much better with less technology. Instead of playing computer games and using social media, children could get outside in the beautiful fresh air and enjoy the sunlight. They would be healthier and fitter if it weren't for technology. All this technology is detecting people and preventing us from really connecting with each other. We would be less grumpy and irritable if we weren't spending our days staring at a screen. It's time to really together and get rid of all this technology to create a happier healthier society!

56. What is the passage mainly about?

- 1. The advantages of technology
- 3. The new inventions of technology
- 5. The negative effects from technology
- 2. The history of technology
- 4. The procedure of using technology

- 57. According to the passage, which sentence is INCORRECT?
 - 1. Technology is the tool which makes people annoying.
 - 2. Technology can worsen mental and emotional health.
 - 3. Technology should be used more in people's daily lives.
 - 4. Technology is not the main factor of developing imagination in children.
 - 5. Technology can make the relationship of families and friends unrealistic.
- 58. What does the word "irritating" mean?
 - 1. hopeful

2. nervous

3. pleased

4. frustrating

5. annoying

For Items 59 - 60 Read the following webpage and choose the best answer to the question.

Gears & Gadgets

> About us > Our Process

Before we release a product, it goes through a careful analysis and design. We follow the same steps from initial conception to final release. These steps help us give you the best products we can.

- 1. Identify a gap in the market through research.
- 2. Verify the need for a new product through focus group.
- 3. Perform a feasibility study before any design work begins.
- 4. Assemble a team of designers to submit sketches for further research.
- 5. Narrow submissions down to find a promising preliminary design.
- 6. Request a more detailed design from an expert designer.
- 7. Construct a model for targeted analysis, and to estimate cost.
- 8. Isolate any design constraints that are evident in the model.
- 9. Review criteria for usability, functionality, marketability, and style.
- 10. Perform the final round of market research with a preliminary version of product.
- 11. Release the product to the general public.
- 59. Which of the following is done before the design process?
 - 1. isolating constraints

2. submitting sketches

3. constructing a model

4. conducting a feasible study

- 5. assembling a team of designer
- 60. According to the webpage, why do they need focus groups?
 - 1. to perform a feasibility study

2. to verify need for the product

3. to identify a gap in the market

4. to request a more detailed design

5. to target analysis and cost estimate

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