10.

MASARYKOVA UNIVERZITA

Centrum jazykového vzdělávání na Přírodovědecké fakultě VZOROVÝ TEST PRO UČITELSKÉ OBORY

Zvolte kód a název předmětu

Version S Vyberte datum Druh terminu UČO: NAME: Subtotal Listening: (33 points out of 55 to pass) Grammar & Vocabulary: Reading: LISTENING (TASK 1) points TASK 1 (1 point per item; total: 10 points) You will hear a climatologist giving a talk on climate. In statements 1-8 below fill in the gaps. Use just one word for each gap. You will hear the talk twice: 1. Human activities cause ______ to the atmosphere, oceans and composition of the air. Therefore, scientists study the ______ of this phenomenon on sea levels, 2. temperature, rainfall, hydrological resources. The decisions we make are based on the ______ we have for the climate. 3. 4. It seems that the models based on experience are no longer _____. 5. We need new information to build ______ for the future. 6. Scientists derive their predictions from processes that they can ______. 7. Scientists ask what controls the ______ of various climatic events. The approach that scientists take is rather ______. Scientists combine the small-scale processes in order to predict the emerging 9. _____ of the complex system. Many phenomena in the climate are not ______ from the small-scale processes.

CDAMMAD & VOCABIII ADV

A: With reference to

A: considering

René Descartes.

A: actually

21. "I think, __

B: Provided that

B: consequently

B: therefore

20. He used an eight-point scale in the questionnaire, _

D: For this reason

_ a four-point one, used by me.

D: as opposed to

D: even though

C: Despite the fact

_ I am" is a philosophical statement proposed by the French thinker

C: in spite of

C: moreover

G r	RAWIWAR & VOCAE	OLARI	(1ASKS 2 - 0)	points
TA	ASK 2		(1 point per ite	m; total: 4 points)
the si	ious parts of sentences 11 – 14 below are <u>und</u> tructure of the original sentence (including tens estion.	_	2	1 1
Exar	<i>Which part of the thesis is he go</i>			
11.	Zero in questionnaire A corresponds	s to <u>"disagree str</u>	<u>congly"</u> .	ŗ
12.	The articles published in Science cor	ntributed to his f	ame.	
<i>13</i> .	The invited authors' contributions ha	ave resulted in a	n impressive book.	
14.	That student does not interpret his re	esearch data app	propriately.	r
TA	ASK 3		(1 point per ite	m; total: 4 points)
	ems 15 – 18, complete a new sentence so that you should use to complete the new sentence is		0 0	e number of words
Exar	mple: They published this book in England The book <u>was published</u> (2 words			
<i>15</i> .	I was silly to choose that university.			
	I shouldn't(2	? words) that un	niversity.	
16.	"I'll be prepared for the presentation	of the new tech	nologies", she said to me.	
	She told me she	(3 word	(s) for the presentation of the ne	ew technologies
<i>17</i> .	Would you like to join us in our quali	tative research?		
	Are you interested	(2	words) us in our qualitative res	search?
18.	She doesn't study cartography at the	faculty any more	e. She failed her exams.	
	She used	<i>(2 words)</i> ca	rtography at the faculty.	
TA	ASK 4		(1 point per ite	m; total: 3 points)
For	questions 19 – 21, decide which answer (A, I	B, C or D) best fits	each gap:	
19.	The experiment did not work well.		we decided to repeat it.	

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TASK 5

(1 point per item; total: 8 points)

Complete gaps 22–29 in the text below with the following words. There are three words that you will not need to use:

awareness	comprises	conceptual	criterion	evaluation	initial	mindful	persist	
promote	rapport	switch						

- a teacher's enthusiasm and passion for the subject,
- (28) between a teacher and a student or group of students during discussions in and out of class,
- intellectual challenges from a teacher, (29) understanding of ideas, and
- a teacher's scholarship.

7	ď	A	C IZ	6
		А	S K	n

(1 point per item; total: 6 points)

In sentences 30—35 below, use the word given in brackets in capital letters to form a word that fits in the gap. Use only one word for each gap. Do not use —ing forms:

Example: This <u>procedure</u> should be carefully controlled and taken into account. (**PROCEED**)

<i>30</i> .	Various statistical of sites. (ANALYSE)	showed no signific	ant difference between the two types
31.	He had no intention of (HYPOTHESIS)	getting drawn into a	discussion
<i>32</i> .	The	process can delay the results. (V	YERIFY)
<i>33</i> .	In order for the medicine to v (EFFECTIVITY)	vork	you must take the correct amount
34.	What is an	in science? (ASSUM)	E)
35	When preparing for a presentat	ion should I	it all? (MEMORY)

READING

(TASKS7-9)

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nts

TASK 7

(1 point per item; total: 5 points)

In the text below find five words that fit the meaning of explanations 36 - 40. Find **only one word** for each explanation. The words occur in the text in the same order as their explanations below the text.

In *discipline-centered teaching*, the course has a fixed structure. The needs, concerns, and requirements of teacher and student are not considered because the course is driven by and depends mainly on the disciplinary content that must be presented. The teacher transmits information, but the content is dictated by some separate authority such as a department syllabus committee or textbook author.

The teacher acts as a model of the educated person in *instructor-centered teaching*. He or she is regarded as the authoritative expert, the main source of knowledge, and the focal point of all activity. The student is the passive recipient of the information already acquired by the teacher. The teacher selects from the discipline the information to be taught, studied, and learned.

Student-centered teaching focuses on the student and, in particular, on the cognitive development of the student. The teacher's goal is to help students grasp the development of knowledge as a process rather than a product. The focus of classroom activities and assignments is on the student-centered process of inquiry itself, not on the products of inquiry. Students create their own conceptual or cognitive models. Content, teaching style, and methods are adapted to aid the cognitive and intellectual growth of students. Student-centered teaching combines an understanding of the way that humans process information with other factors that affect learning such as attitudes, values, beliefs, and motivation.

36.	communicates, passes
37.	given, told exactly, influenced
38.	obtained, learned
39.	understand something, especially difficult
40.	the process of asking questions, discovering things

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TASK 8 (1 point per item; total: 9 points)

Nine parts of sentences have been removed from the text below. Choose one of parts (A - I) for each gap (41 - 49). Write the appropriate letter next to a number, e.g. **41** G:

- A) as we travel through the twenty-first century
- B) pepper most books about the future
- C) it chooses to deliver them
- D) are reflected in the curriculum it offers
- E) which will quite literally change our minds
- F) which pervade the school
- G) they may witness the more concerted use of international cooperation
- H) are unfit for the twenty-first century purpose
- I) has not even been invented yet

(1 point per item; total: 6 points)

Read the text and decide which of the options A - D in items 50 - 55 is correct:

We live in an age of constant scientific discovery — a world shaped by revolutionary new technologies. More and more, scientific and technological issues dominate national discourse, from environmental debates on ozone depletion and acid rain, to economic threats from climate change and invasive species. Understanding these debates has become as basic as reading. All citizens need to be scientifically literate to appreciate the world around them and make informed personal choices.

Scientists and educators should be accountable for providing everyone with the background knowledge to help us cope with the fast-paced changes of today and tomorrow. What is scientific literacy and why is it important?

In my opinion, scientific literacy is a mix of concepts, history, and philosophy that help you understand the scientific issues of our time. Scientific literacy is rooted in the most general scientific principles and broad knowledge of science. If you can understand scientific issues in magazines and newspapers then you are scientifically literate.

Admittedly, this definition does not satisfy everyone. Some academics argue that science education should expose students to mathematical rigor and complex vocabulary. They want everyone to experience this taste of "real" science. But I feel strongly that those who insist that everyone must understand science at a deep level are confusing two important but separate aspects of scientific knowledge: doing science and using science. Logically, scientific literacy concerns only the latter.

Interestingly, intense study of a particular field of science does not necessarily make one scientifically literate. Indeed, I am often amazed at the degree to which working scientists are often uninformed in scientific fields outside their own field of professional expertise. I once asked a group of twenty-four Ph.D. physicists and geologists to explain the difference between DNA and RNA. I found only three colleagues who could do so, and they did research in areas where this knowledge was useful. Unfortunately, the education of professional scientists is often just as narrowly focused as the education of any other group of professionals, so scientists are just as likely to be ignorant of scientific matters outside their own specialty as anyone else.

- *50.* According to the author
 - A: national debate should be more focused on science.
 - B: scientific issues in magazines are difficult to understand.
 - C: people should participate more in discussing scientific issues.
 - D: scientific literacy is the responsibility of scientists and educators.
- 51. The definition provided by the author has been
 - A: developed by the author himself.
 - *B*: understood with difficulty.
 - C: accepted by academics / generally accepted.
 - D: taken from mass-media.
- 52. In the author's view, the defined term is linked to
 - A: using science.
 - B: doing science.
 - *C*: experiencing real science.
 - D: deep understanding of science.
- 53. The author believes that
 - A: narrow focus of science education is an advantage.
 - B: science education should be more interdisciplinary.
 - C: some aspects of scientific knowledge are confusing.
 - D: studying a scientific field leads to scientific literacy.
- 54. The majority of the scientists interviewed by the author
 - A: demonstrated a high degree of scientific literacy.
 - B: did research in DNA and RNA outside their field.
 - C: found the information about DNA and RNA useful.
 - D: were ignorant of scientific issues outside their specialty.
- 55. The best title for the text is
 - A: Education of professional scientists.
 - B: The level of professional expertise in science.
 - *C*: What does it mean to be scientifically literate?
 - D: Why is scientific literacy discussed in magazines?

Datum	Version	Δ_	Druh	terminu

NAME:	

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Zvolte kód a název předmětu

Version S

Druh terminu

Vyberte datum

(maximum: 10 points)

KEY

LISTENING

TASK 1 (1 point per item; total: 10 points)

Source: http://edge.org/conversation/the-physics-that-we-know

Length: 03:54

1. changes

- 2. impact/impacts
- 3. expectations
- 4. valid
- 5. infrastructure
- 6. measure/model
- 7. frequency
- 8. ambitious
- 9. properties
- 10. predictable











GRAMMAR & VOCABULARY

(maximum: 25 points)

TASK 2

(1 point per item; total: 4 points)

- 11. What does zero in questionnaire A correspond to?
- 12. What / Which articles / Which of his articles / What articles... contributed to his fame?
- 13. Whose / Which / Which authors' contributions have resulted in an impressive book?
- 14. Who does not interpret his research data appropriately? Which student does not...?

TASK 3

(1 point per item; total: 4 points)

- 15. have chosen/have studied
- 16. would be prepared
- 17. in joining
- 18. to study

TASK 4

(1 point per item; total: 3 points)

- 19. **D**
- *20.* **D**
- 21. **B**

TASK 5

(1 point per item; total: 8 points)

Source: Adapted from (Ward, Ted W., Understanding Teaching and Learning as Inseparable Processes. Common Ground Journal. Fall2012, Vol. 10 Issue 1, p45-61. 17p.)

- 22. criterion
- 23. initial
- 24. comprises
- 25. evaluation
- 26. switch
- 27. persist
- 28. rapport
- 29. conceptual

TASK 6

(1 point per item; total: 6 points)

- 30. analyses
- 31. hypothetical/hypothetic
- 32. verification
- 33. effectively
- 34. assumption
- 35. memorize/memorise

READING

(maximum: 20 points)

TASK 7

(1 point per item; total: 5 points)

Source: Adapted from (Ward, Ted W., Understanding Teaching and Learning as Inseparable Processes. Common Ground Journal . Fall2012, Vol. 10 Issue 1, p45-61. 17p.)

- 36. transmits
- 37. dictated
- 38. acquired
- 39. grasp
- 40. inquiry

TASK 8

(1 point per item; total: 9 points)

Source: Adapted from (Barnes, J. Cross-Curricular Learning. Sage: 2007.)

- 41. **D**
- *42.* **C**
- *43*. **F**
- 44. H
- 45. **A**
- 46. I
- 47. **B**
- 48. **G** 49. **E**

TASK 9

(1 point per item; total: 6 points)

Source: Adapted and abbreviated from http://www.actionbioscience.org/newfrontiers/hazen.html
http://www.actionbioscience.org/newfrontiers/hazen.ht

- *50.* **D**
- 51. **A**
- 52. **A**
- 53. **B**
- 54. **D**
- 55. **C**









