



NECLASIFICAT Exemplar unic

Nr.

-București-

Transferul în colegiile naționale militare, în anul scolar 2021-2022

TEST GRILĂ DE VERIFICARE A CUNOȘTINȚELOR LA DISCIPLINA

MATEMATICA-clasa a XI-a

VARIANTA 2

02.09.2021

		02.09,2021	
1. Num	ărul soluțiilor reale ale ecuaț	iei $3^{\sqrt{x}} = \left(\frac{1}{3}\right)^{x-2}$ este:	
A. 5	В, 3	Service and the service and th	D. 1
	onsideră vectorii $\vec{u} = 2\vec{\imath} + \vec{\jmath}$, frului real a pentru care $\vec{u} + \vec{\jmath}$		unde $a \in \mathbb{R}$. Valoarea
A6	B. $-\frac{3}{2}$	C1	D. 6
3. Se co		B(-4,0); C(2,0). Ecuația n	nedianei din A a triunghiului
A.y - 5 =	B.x+y-4=	0 C.z + 1 = 0	D. x - y + 6 = 0
	imea valorilor parametrului r $= \log_3((m+1)x^2 + 2(m+1)x^2 + 2(m+1$		
A. (-1; 1)	B. (0; +∞)	C. Ø	D.R
5. Ştiin	d că numărul complex z ₀ est	e soluție a ecuației $ z + z$	$= 8 + 4i$, atunci $ z_0 $ este:
A. 8	B. 5	C. 4	D. 3
6. Num	ărul $a = \log_6 16$ scris în fun	cjie de numărul b = log ₁₂	27 este:
$A. a = \frac{4-b}{3+b}$		$C, a = \frac{2b}{3-b}$	
		al doilea termen al dezvolti	ării $\left(\sqrt[7]{x} + \frac{1}{\sqrt{x}}\right)^n$ este 21. Rangul
A. 3	B. 4	C. 5	D. 1
8. Sum	soluțiilor ecuației $\frac{1}{2} \sin x +$	$\frac{\sqrt{3}}{2}\cos x = \frac{1}{2} x \in [0; 2\pi],$	este:
$A.\frac{7\pi}{6}$	$B.\frac{\pi}{3}$	2.27	$D.\frac{3\pi}{2}$
	onsideră funcția $f: \mathbb{R} \to \mathbb{R}, f(x+3) + f(2x) - f^{-1}$		¹ este inversa funcției f, soluția alul:
A. (0; 2)	B. (1;2)	C. [0,1)	D. (-2,0]



NECLASIFICA I Exemplar unic

ROMÂNIA
MINISTERUL APĀRĀRII NA JIONALE

Direcția generală managemnt resurse umane

TEST DE VERIFICARE A CUNOȘTINȚELOR -DISCIPLINA LIMBA ENGLEZACLASA a XI-a VARIANTA 2

READING COMPREHENSION

Read the following text and choose the correct answer A, B, C or D:

Dolphins, sea lions and other mammals have been part of special military units since the end of World War II as a part the US Navy's Marine Mammal Program. They work below the surface: spotting suspicious objects like mines, enemy swimmers and vehicles.

- 1. Dolphins and other sea mammals are used by the US Navy:
 - A. in underwater operations
 - B. to lay underwater mines
 - C. to attack enemy swimmers
 - D. instead of underwater vehicles

You can find Eden Project in Cornwall, in the south-west part of England.

It's a green area made up of two enormous greenhouses called 'biomes'. It first opened on 17th March 2001 and since then has attracted thousands and thousands of visitors.

The biggest greenhouse is the Tropical Biome and represents a rainforest environment. Inside you can find tropical plants such as banana plants, coffee, rubber and giant bamboo. The second greenhouse represents a Mediterranean environment and contains plants such as olives, grape vines and various sculptures. There is also an outside botanical garden which contains plants from around the world such as tea and sunflowers.

In September 2005 the Eden Project opened an area called 'The Core' which is an educational facility with classrooms and exhibition areas. Children and adults can come here to attend lessons and workshops to learn about how we can protect our environment.

Each year at the Eden Project a series of music concerts are organized. These are called 'Eden Sessions'. But if music isn't your thing, why not visit the Eden Project during the winter period? There's an ice rink where you can go skating and also a Christmas market where you can buy some of your Christmas presents.

- 2. What is Eden Project?
 - A. the largest botanical garden in Europe
 - B. a big biome which opened in March 2001
 - C. a place where visitors can see thousands of plants
 - D. a tourist attraction in the north of England
- 3. Where can you admire art objects?
 - A. in the botanical garden
 - B. in the Mediterranean greenhouse
 - C. in the 'Core' facility
 - D. in the tropical greenhouse

- 4. What else can visitors to the Eden Project do?
 - A. take music lessons
 - B. learn how to grow plants
 - C. go to Christmas concerts
 - D. shop for seasonal gifts



LANGUAGE IN USE

Choose the right answer A, B, C or D:

ouse the right answer rate of the					
5.	A.	hates answering the phone and often lets it ringing ring		to ring to be ringing	
6.	A.	ish our Maths teacher us so much homework. I newill not give couldn't give	C.	r have enough time to finish it. doesn't give didn't give	
7.	A.	th the destruction of tropical rain forests, very many are threatened have threatened	C.	imal species with extinction are threatening would have been threatened	
8.	A.	hey about the warning for bad weather, they wou had heard heard	C.	t have left their house. had heared heared	
9.	A_{τ}	eir holiday a disaster, as the weather was terrible, may be can be	C.	must have been can't have been	
10.	Ä.	ould you the salt, please? carry deliver		give pass	
11.	A.	e new recruits remind me my cadet years. of from	C. D.	off to	
12.		the blouse but it was obviously too small. put down	C.	tried on	

13. 'Sorry to interrupt you!' is used to express:

A. disagreement

C. opinion

D. tested

B. agreement

B. took up

D. apology

14. I am going to spend a few days with some ... of mine who live abroad.

A. ancestors

C. families

B. relatives

D. companies

15. The girl ... parents have already arrived looks happy.

A. who's

C. of which

B. whose

D. that's

16. The journalist asked the author how many novels ... till then.

A. did he write

C. he had written

B. had he written

D. he wrote

17. I went to the school library ... borrow a book.

A. in order to

C. because

B. for

D. so that

18. Choose the correct sentence to begin a descriptive paragraph:

A. Years ago, young people dreamt of having their own successful business.

B. Set in the heart of Southern England, London is one of the biggest and busiest cities in Europe

C. Going abroad to study or to live is not always a pleasure.

D. Why is it that American working women complain about job discrimination?

