		- 7/10
سری سوال: یک ۱	زمان آزمون (دقیقه) : تستی : ۶۰٪ تشریحی: ۰	تعداد سوالات: تستى : ٣٠ تشريحى : .
		<b>عنـــوان درس:</b> متون زیست شناسی
	، عمومی۱۱۱۲۰۲۵	<b>رشته تحصیلی/کد درس:</b> زیست شناسی گرایش

		یی گرایش عمومی۱۱۱۲۰۲۵	<b>شته تحصیلی/کد درس:</b> زیست شناس	
1-One type of vascular tis or root?	sue in plants that trans	ports organic nutrients bo	th up and down the stem	
<ol> <li>mitochondria</li> </ol>		2. sieve tube		
<sup>3.</sup> phloem		4. plasma membrane	4. plasma membrane	
2-The organisr	ns are generally large in	size.		
1. many-celled	2. single-celled	<sup>3.</sup> thick-walled	4. thin-walled	
3-The cells of what anima	l were cultured in 1907	by a biologist?		
<b>1.</b> man	<sup>2.</sup> plant	<sup>3.</sup> hicken	<sup>4.</sup> salamander	
4-The smallest bacteria an quantities of the essent		ells can be and still contai	n the minimum	
1. components	<sup>2.</sup> cells	3. nucleus	4. exchange	
5-The cell passes all the	to the next gen	eration.		
1. atom		2. energy		
<sup>3.</sup> information	10N	4. plasma membrane	4. plasma membrane	
6-The form of cell division develops into a new ind	// \ \ // \ //	f the parent`s body separa	ites from the rest and	
<ol> <li>parthenogenesis</li> </ol>		<sup>2.</sup> fragmentation		
<sup>3.</sup> fission		<sup>4.</sup> budding		
7-Which one of following	sentences is correct?			
1. In fission, the cell div	vision is meiosis.			
2. Old age is an importa	ant factor in the decreas	e of the number of individu	uals of a species.	
3. In the asexual genera	ation of coelenterates th	e organisms are haploid.		
4. The original macronu	ucleus divides meiotically	in the process of sexual re	eproduction of paramecia.	
8-The organs that produc	e the gametes or sex ce	ls are called		

8-The organs that	produce the gam	etes or sex cells a	re called

1. gonads

2. chromosomes

3. oogenesis

4. spermatogenesis

9-Which one of organisms liberate their sperm and egg into the water?

1. flukes

2. coelenterates

3. sea urchins

4. tapeworms

11:00			7/
سری سوال: یک ۱	): تستى: 60 تشريحى: 0	زمان آزمون (دقيقه)	اد سوالات: تستى: ٣٠ تشريحى: ٠ ـــوان درس: متون زيست شناسى
		گرایش عمومی۱۱۱۲۰۲۵	<b>ته تحصیلی/کد درس:</b> زیست شناس <sub>ی</sub>
10-The mode of reproduct equal and the cell divid		is divided in two daughter	parts which are almost
1. fragmentation	·	<sup>2.</sup> fission	
3. budding		4. parthenogenesis	
11-A class of the phylum p surface of the cells?	rotozoa possessing sn	nall, bristle-like cytoplasmi	c projection on the free
1. ciliata	2. sporozoa	3. flagellata	<sup>4.</sup> rhizopoda
12-The first animals	we call protozoa are	single-celled forms.	
1. how	<sup>2.</sup> which	<sup>3.</sup> what	<sup>4.</sup> where
13-The protozoa are in ger	neral like animals in th	neir nutrition, behavior and	
1. locomotion	2. movement	3. motility	4. motion
14-The organism that caus	es malaria in a humar	n being is a	
<b>1.</b> ciliata	2. flagellata	3. rhizopoda	<sup>4.</sup> sporozoa
15-Which one of the follow	vings is needed by eac	ch protozoan cell for the dig	gestion of food?
1. false foot	<sup>2.</sup> vacuole	3. channel	<sup>4.</sup> cilium
16-During cell division part	ts of chromosomes are	e exchanged and we have t	he phenomenon of
1. gene	2. recessive	<sup>3.</sup> inheritance	4. crossing-over
17-The basic unit of inherit	tance is?		
1. chromosome	2. gene	3. DNA	<sup>4.</sup> crossing-over
18-Which one of following	sentences is incorrec	t?	
1. The determination o	of inheritance in man h	as been great interest to re	searchers.
<sup>2.</sup> Genetics have mana	ged to breed cows wit	h large quantities of milk.	
3. The eggs with thick s	shells have been produ	iced by geneticists.	
4. One pair of characte	ristics studied by Men	del was wrinkled versus rou	ind seeds.

- 19-Which one of researchers was the first investigator who managed to find out about the laws of genetics?
  - 1. Pasteur
- 2. Mendel
- 3. Hooke
- 4. Galilei
- 20-It is only at the time of cell division that ...... can be easily seen.
- ribosomes
- 2. chromosomes
- 3. lysosomes
- 4. nuclei

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<b>سری سوال:</b> یک ۱	تشریحی: ۰	آزمون (دقیقه) : تستی : ۶۰	زمان	داد سوالات: تستى: ٣٠٪ تشريحى: ٠
				نـــوان درس: متون زیست شناسی
			ی گرایش عمومی۱۱۱۲۰۲۵	<b>شته تحصیلی/کد درس:</b> زیست شناس
21-Any of a group of catalyti	ic proteins t	that are produced	by living cells?	
1. radiant energy	2. ATP	3.	enzyme	4. lipids
22-Land plants absorb the w	ater (H2O)	required for the pl	hotosynthetic prod	ess through their
1. stomata	2. leaf	3.	chlorophyll	4. roots
23-In the process of photosy	nthesis, chl	lorophyll acts as a	•••••	
<ol> <li>catalyst</li> </ol>		2.	ATP	
3. water absorbance		4.	radiant energy	
24-The movement of gases i	n and out o	f the leaf is contro	lled by the guard o	cells surrounding the?
<b>1.</b> nuclei	2. stomat	a 3.	cytochromes	4. chlorophyll
25-In all higher plants the ph	notosynthet	tic structures are la	arge and known as	?
1. lysosomes	2. vacuole	es 3.	stomata	4. chloroplasts
26-A person specialized in their environment?	ne study of t	the interrelationsh	nips which exist be	tween organisms and
1. biologists	2. embryo	ologists 3.	ecologists	4. geneticists
27-Which one of animals har from a dark to a light bac		cable ability to cha	nge their color an	d pattern as they move
1. human	2. birds	3.	insects	4. frogs
28-Which one of following se	entences is	correct?		
1. The mouthparts of all	insects are a	adapted for chewir	ng vegetation.	
2. The trophic position o	f an organis	m is related to its	ecologic niche.	
3. A eurythermic organis	m is one wh	nich will tolerate na	arrow ranges of ter	nperature.
<sup>4.</sup> The type of life in the	desert and a	arctic indicates the	importance of top	soil as a limiting factor.
29-The protein molecules of	wool are ci	ross-linked with m	any bridges	S.
1. enzyme	2. disulfid	le 3.	magnesium	4. ATP
30-The porosity of the soil is	of great im	nortance to the		

1. frogs

3. plants

2. aquatic animals

4. birds