銘傳大學九十三學年度轉學生招生考試 (第一頁共平頁)

普通生物學 試題

(限用答案本作答)

普通生物學 轉學考試題 B. G ₂					
普通生物學 轉學者試題 選擇題:請選出最合適的答案(每題二分,共五十題;			C. S		
-43.17	答錯超過十題,每多一題倒扣一分)		D. M		
1.	Energy enters most ecosystems as A. light				
1.			The proper sequence, beginning to end, for the stages of mitosis is:		
	B. chemical energy		A. prophase-metaphase-anaphase-telophase		
	C. heat		B. metaphase-anaphase-telophase-prophase		
	D. light and chemical energy		C. anaphase-prophase-metaphase-telophase		
2.			D. prophase-anaphase-metaphase-telophase		
-	that lack nuclei?		When does separation of homologous		
	A. Bacteria		chromosomes occur?		
	B. Protista		A. prophase I		
	C. Fungi		B. anaphase I		
	D. Protozoa		C. prophase II		
3.	What structures are found within bacterial cells?		D. metaphase II		
J.	A. Nucleus	12.	Gene flow is a concept best used to describe an		
	B. Ribosomes	12.	exchange between		
			A. chromosomes		
	C. Chloroplasts D. Mitochondria		B. individuals		
			C. populations		
4.	Two organelles which are believed to have once		- -		
	been free-living bacterial cells are and	12	D. species		
		13.	Natural selection is most closely related to		
	A. ribosomes; nucleolus		A. diploidy		
	B. Golgi complex; endoplasmic reticulum		B. gene flow		
	C. chloroplasts; mitochondria		C. genetic drift		
	D. peroxisomes; lysosomes	14	D. differential reproductive success		
5.	When a cytoplasmic vesicle fuses with the plasma	14.	Paedomorphosis is the result of		
	membrane, expelling its contents outside the cell,		A gradualism		
	the process is known as:		B. autopolyploidy		
	A. exocytosis	•	C. heterochrony		
	B. phagocytosis		D. paleontology		
	C. endocytosis	15.	The process of bringing in the appropriate amino		
_	D. active transport		acid into position along the mRNA in the		
6.	Most CO ₂ from catabolism is released during		cytoplasm is:		
	A. glycolysis		A. Promotion		
	B. the Krebs cycle		B. Transduction		
	C. electron transport		C. Transcription		
	D. oxidative phosphorylation	16.	D. Translation		
7.	The overall purpose of the Calvin cycle in		The site where RNA polymerase attaches to the		
	photosynthesis is to:		DNA molecule to start the formation of mRNA is		
	A. generate molecules of ATP		called a(n):		
	B. generate NADP		A. operon		
	C. give off oxygen for animal use		B. exon		
	D. build organic (carbon) molecules		C. promoter		
8.	Bacterial cells divide by		D. operator		
	A. cleavage	17.	Trimming certain genes out of molecules of DNA		
	B. cytokinesis		requires the use of special:		
	C. binary fission		A. digestive enzymes		
	D. mitosis		B. restriction enzymes		
9.	During which phase of the cell cycle is DNA		C. enzymes from peroxisomes		
	synthesized?		D. microscopic scalpels		
	A C	10	All of the genes and other DNA of an organism		

本試題係兩面印刷

銘傳大學九十三學年度轉學生招生考試

七月二十一日 第三節

(第二頁共三頁)

普通生物學 試題 (限用答案本作答)

	con	stitute its:		nit	rogen to form
	A.	chromosomes		A.	N ₂
	B.	genome		В.	NH ₃
	C.	proteome		C.	NO ₂
	D.	transcriptome		D.	NO
19.	How many genes constitute the human genome?		28.	Wh	nat should be added to soil to prevent minerals
	A	more than 140,000			m leaching away?
	В.	about 100,000		A.	Silt
	C.	about 35,000		В.	Sand
	D.	less than 14,000		C.	Humus
20.		consist of a nucleic acid core		D.	Nitrogen
	surrounded by a protein coat.		29.	Wh	at is the main cause of guttation in plants?
	A.	Viruses		A.	Root pressure
	B.	Protists		B.	Transpiration
	C.	Eubacteria		C.	Pressure flow in phloem
	D.	Archaebacteria		D.	Condensation of atmospheric water
21.	Whi	ich obsolete kingdom includes prokaryotic	30.	Bot	h red and blue light are involved with
		anisms?		A.	Stem elongation
	A.	Plantae		B.	Photoperiodism
	В.	Animalia		C.	Positive phototropism
	C.	Protista		D.	Tracking seasons
	D.	Monera	31.	In f	lowering plants, pollen is released from
22.	Wh	ich eukaryotic kingdom is polyphyletic and,		A.	anther
	ther	refore, obsolete?		В.	stigma
	A.	Plantae		C.	carpel
	B.	Animalia		D.	sepal
	C.	Protista	32 .	Who	ere and by which process are sperm produced
	D.	Monera		in p	lants?
23 .	Wha	at is the largest organelle in most mature living		A.	Meiosis in pollen grains
	plant cells?			В.	Meiosis in anthers
	A.	Chloroplast		C.	Mitosis in male gametophytes
	B.	Nucleus		D.	Mitosis in the micropyle
	C.	Central vacuole	33.	Dur	ing muscle contraction, the ion that leaks out of
	D.	Dictyosome (Golgi apparatus)			sarcoplasmic reticulum and induces myofibrils
24.	Land	d plants are composed of all the following		to co	ontract is
	tissue types except tissue.			A .	Na ⁺
	A.	epidermal		В.	K ⁺
	B.	mesoderm		C.	Ca ²⁺
	C.	vascular		D.	Cl.
	D.	ground	34.	The	system of human body is
25.	What soil is the most fertile?			respe	onsible for secreting the hormones that help
	A.	Loam		integ	grate the body's activities.
	B.	Clay		A.	integumentary
	C.	Silt	•	B.	nervous
	D.	Sand		C.	circulatory
26.	Mos	t crop plants acquire their nitrogen mainly in		D.	endocrine
	the form of		35.	The organ system of the human body that removes	
	A.	NH ₃			bolic wastes from the bloodstream is the
	В.	N_2			system.
	C.	NO ₃		A.	digestive
	D.	amino acids absorbed from the soil		В.	urinary
27 .	The	enzyme nitrogenase reduces atmospheric		C.	lymphatic

本試題係兩面印刷

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(第三頁共三頁)

普通生物學 試題

(限用答案本作答)

		•				
	D.	respiratory		D.	acetylcholine	
36 .	Where does the digestion of fats occur?			Pro	staglandins are derived from	
	A.	Mouth and stomach		A.	amino acids	
	B.	Stomach only		В.	sugars	
	C.	Small intestine only		C.	fatty acids	
	D.	Stomach and small intestine		D.	nucleotides	
37.	Which of the following digestive processes		46.	The	e receptor for steroid hormones lies:	
	requ	uires enzymes?		A.	in the cytoplasm	
	A.	ingestion		В.	within the cell membrane	
	B.	peristalsis		C.	in the glycocalyx of the cell membrane	
	C.	absorption		D.	in the endoplasmic reticulum of the cell	
	D.	hydrolysis	47.	Cel	Is that insulate and speed impulse conduction	
38.	Where is the velocity of blood flow the lowest?			dov	vn neurons in the PNS are:	
	A.	The aorta		A.	nodes of Ranvier	
	B.	Arterioles		В.	astrocytes	
	C.	Capillaries		C.	Schwann cells	
	D.	Veins		D.	oligodendrocytes	
39 .	Hov	w do veins prevent the backflow of blood	48.	At t	the time of implantation, the human embryo is	
		nin them?			ed a(n)	
	A.	by having thick, muscular walls		A.	blastocyst	
	B.	because of the tiny lumen inside them		B.	embryo	
	C.	they are capable of contracting		C.	fetus	
	D.	they possess flaplike valves		D.	zygote	
40.	Aniı	mals that consume both plant material and	49.	Cho	oose the best definition of the term "ecology".	
	other animals are called:		•	A.	Ecology is the study of animals in their	
	A.	Herbivores			habitat.	
	B.	Carnivores		B.	Ecology is the study of plants and animals in	
	C.	Omnivores			their ecosystems.	
	D.	Detritivores		C.	Ecology is the study of communities of	
41.	All c	of the following are functions of the			organisms.	
		nmalian kidney except		D.	Ecology is the study of interactions of	
	A.	filtration of blood			organisms with each other and with their	
	В.	production of urea as a waste product of			habitat.	
	-	protein catabolism	50.	The	re are approximately identified and	
	C.	excretion of nitrogenous waste			named species.	
	D.	regulation of salt balance in the blood		A.	150,000	
42.		ch of these animals has a gastrovascular		В.	1,500,000	
	cavity?			C.	15,000,000	
	A.	bird		D.	150,000,000	
	В.	insect			,,	
	C.	hydra				
	D.	mammal				
43.		secrete antibodies.		ſ	計 腹 吟	
	A .	Plasma cells		l	試題完	
	В.	Cytotoxic T cells				
	C.	Helper T cells				
	D.	Natural killer cells				
14.		rgic reactions are triggered by the release of				
17.		from certain cells.				
	<u>A</u> .	epinephrine				

histamine serotonin ٠