		Biology 11 Practice Final Exam Questions ANSWER the following questions and JUSTIFY your response.		969	unpredictable weather pattern	\$
r	(a) (c) (b) (c) (C) 1	in science DO NOT include experimentation developing a hypothesis trial and error testing collecting data	. (.	7. Which (a) (b)	evolution/two species) two species/geographic isolatio isolation/divergent evolution	s/reproductive isolation/divergent
	U	Use the following information to answer the next 3 questions.	, i	(a)	isolation/two species	ies/reproductive isolation/two speci
T	he scienti	ific name for a daffodil is: Plantae Anthophyta Monocotyledonae Liliales	8		ever an evolutionary tree branches,	there is assumed to be
2 4		Amarlideceae Narcissus pseudonarcissus e binomial name for the daffodil?	ı.L	(a)		
L. 17		arcissus pseudonarcissus	_	Ų.	always a living member of that g	group
Λ		iliales	((c)	a common ancestor	
A	, -,	marlideceae	_	(d)	an embryo only	
			_			
	(a) M	lonocotyledonae Liliales	9.		ns, humans, and bats all have foreli	mbs that are:
3 W/L				(0)	convergent	
		order of the daffodil?	R	(6)	analogous	
		arcissus pseudonarcissus	レ	(c)	vestigial	
,	— /	liales		(d)	divergent	
		narlideceae			P 4 4 5	
((d) Mo	ono co tyledonae Liliales			and the second s	
				For	the following 5 questions, match t	he correct term with the definition
		family of the daffodil?	2			
		rcissus pseudonarcissus			l of the fittest	(a) genę pool
(1					es in a population	(b) gradualism
/ (c) Amo	arlideceae	D12.	unrelat	ed species become more alike	(c) natural selection
(0	i) Mon	nocotyledonae Liliales	E13.	brief po stable	eriods of change interrupt long periods	(d) convergent evolution (e) punctuated equilibrium
The o	enetic m	akeup of a population	B14.	change	s occur slowly throughout time	(-) (-)
(a		ys remains constant		_	1	
(b)		change with every new generation	15.	Which	of the following is correct complim	entary base pairing?
5		change over time		(a)	adenine-quanine	/ p
(d)		pendent on the proportion of males to females		(b)	cytosine-thymine	
(4)		herinent on the bisher tion of mores to tenience	Ð	(c)	guanine-thymine	
	180		-	(0)	guanne-inynine	

MOC CO.	0. ACTUAL						
	(a) objective magnification times ocular magnification	I	<u>J</u> 23.	Viruses that are capa		and the second s	45
0	(b) fraction of field of view times diameter	r	7	(a) pathogens	(b) symbionts	(c) saprophytes	(d) methanogens
۲	(c) drawing size times drawing magnification		24	Which is not true of a	virue		
	(d) objective plus ocular magnification			(a) it is a noncellula			
		•		(b) it has a nucleic of			
17.	Which statement is NOT true about bacteria?	. D)	(c) it has a protein o			
	(a) they lack mitochondria	•		(d) in contains DNA	and RNA		
	(b) they reproduce sexually by binary fission						
O	(c) they have a singular circular chromosome		25. I	Bacteria are important			
В	(d) they lack a nucleus but contain DNA	_		(a) they are agents a (b) they can fix nitro			
	(e) they occur in three basic shapes	1.7)	(c) they are used to p		ur foods	
	, and a state only to	1		(d) all of the above		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
18.	An object fills up about 25% of the field of			THE STATE STATE STATE OF STATESONS			
	An object fills up about 25% of the field of view under high power, and you draw a picture of	2		njugation is important			
	it that is 14.2 cm long. What is the magnification of your drawing? (a) 1262X	^		(a) it produces differe			
^	(b) 0.1262X	Δ		(b) it allows the organi		exually	
+	(c) 126.2X	Lı		(c) it assists in trappin (d) it allows the organi			
•	(d) 1226X			(a) it allows the organi	sm to move trom on	e area to another	
	(4) 12207	_ 27	7. Wł	ich of the following do	es NOT describe th	shape of a bacteriu	ım?
		D		a) bacilli	(b) spirilla	(c) cocci	(d) amoeboid
9.	The outer protective coat of a virus is mainly: (a) DNA	_					
\sim	(b) RNA	28		teria that grow best in		so grow without oxyge	n are called:
٠,	(c) protein	121		i) facultative anaerobe	5	(c) obligate anaero	
	(d) spongin	150	130) facultative aerobes		(d) obligate aerobe	ıs
		29	Whi	ch terms are associate			
0. 🗚	virus that attacks a bacterial cell is called a:	Λ.) Prokaryotic and most		(c) Prokaryotic and	often multi-all-l
`	(a) plaque	A		eukaryotic and mostly		(d) Eukaryotic and	
ク	(b) bacteriophage (c) vaccine	•				(-) your and	orien marricendiar.
/	(d) antibiotic.	30.	Whe	n growth conditions b	ecome unfavourable	. bacteria can form	thick internal walls that
		encle	026 11	s DIVA and a small por	tion of cytoplasm. T	his is called a(n):	The miletinal wans inat
i. A	form of sexual reproduction that occurs in some bacteria is known as:	~	(a)	prophage			
`	(a) binary fission	\Box		bacteriophage			
)	(b) endospores			colony endospore			
	(c) capsids		(u)	endospore			
	(d) conjugation	31. B	Bacter	ia that use sunlight fo	r energy and access		
. w	hen viruses undergo a lysogenic cycle, they are said to be:	_	(-)	priore of the distance of the second	S	compounds for nutri	tion are
	(a) virulent	C.	(b)	chemotrophic autotroph	ıs		
)	(b) latent	\sim		hototrophic heterotrop	ohs		

35. Which of the following features do mosses and ferns share? 37. Which of the following are not tracheophytes? 36. Which of the following IS NOT one of the main features of ferns? 34. The body form of mosses is 33. The role of algae in lichen is as 32.The appearance of both haploid and diploid forms in an algae's life cycle illustrates É E **©**B0 mosses angiosperms gymnosperms terns the gametophyte is independent of the sporophyte their leaves are divided into leaflets with sporangia on the underside they have a vascular system the sporophyte consists of a rhizome with roots and upright leaves both a and d chlorophyll vascular tissue rhizoids cuticles a short stalked plant with leaf like structures and rhizoids a cellular or non cellular oozing mass a green, red, or brown pigmented shade dwelling plant a tangled mass of hyphae a medium sized plant with no actual roots a supporter and protector of the fungus a decomposer all of the above a parasite a producer alternation of generations symbiosis parasitism phototropism

38. How are pine trees usually pollinated? by bees

by the wind

by self pollination

by birds

39.Conifer needles have developed a compact shape with sunken stomata to protect against animal grazing

aid in photosynthesis help conserve water

40. Which of the following does not belong to the group? help insects pollinate conifer flowers

anther filament

pollen grains stamen

Propos

stigma

41. Which of the following does not belong to the group?

style stamen pistil

42. The main photosynthetic layer in a leaf is called the

epidermis

palisade mesophyll

spongy mesophyll

 $43. {
m The}$ tissue that is responsible for producing new xylem and phloem in the stem is

cork cambium

vascular cambium

apical meristem

s of fours or fives Some are arranged in a ring at the outside of the err of the root and phloem is positioned between the ker from year to year	Which of the following IS NOT a characteristic of most amphibians? (a) aquatic as larva and terrestrial as adults (b) lack scales and claws	 74. Which of the following IS NOT a characteristic common to ALL mammals? (a) are endothermic (b) have fir, hair, and/or subcutaneous fat
monocot dicot both neither Totallel veins monocot dicot both neither parts are found in multiples of fours or fives monocot dicot both neither parts are found in multiples of fours or fives monocot dicot both neither The x monocot dicot both neither s found in an X in the center of the root and phloem is positioned between the thoth neither and roots do not grow thicker from year to year monocot dicot both neither		
monocot both neither rallel veins monocot dicot both both neither parts are found in multiples of fours or fives monocot dicot both neither ar bundles of xylem and phloem are arranged in a ring at the outside of the monocot dicot both neither monocot the xylem and phloem are arranged in a ring at the outside of the monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	owo cotyledons	50. Within a sponge, the cells involved in digestion are:
monocot dicot both neither parts are found in multiples of fours or fives monocot dicot both neither ar bundles of xylem and phloem are arranged in a ring at the outside of the monocot dicot both neither is found in an X in the center of the root and phloem is positioned between the tooth orither and roots do not grow thicker from year to year monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	lot .	
monocot dicot both neither parts are found in multiples of fours or fives monocot dicot both neither ar bundles of xylem and phloem are arranged in a ring at the outside of the monocot dicot both neither is found in an X in the center of the root and phloem is positioned between the is the X monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	oth bither	
monoccot both neither parts are found in multiples of fours or fives monoccot dicot both neither ar bundles of sylem and phloem are arranged in a ring at the outside of the monoccot dicot both neither is found in an X in the center of the root and phloem is positioned between the the X monoccot dicot both neither and roots do not grow thicker from year to year monoccot dicot both neither	veins	51. Which of the following IS NOT a function of amebocytes?
both neither parts are found in multiples of fours or fives monocot dicat both neither ar bundles of xylem and phloem are arranged in a ring at the outside of the monocot dicat both neither is found in an X in the center of the root and phloem is positioned between the monocot dicat both neither and roots do not grow thicker from year to year monocot dicat both neither	onocot	 (a) digestion (b) transporting putrients throughout the sponge
parts are found in multiples of fours or fives monocot dicat both neither ar bundles of sylem and phloem are arranged in a ring at the outside of the monocot dicot both neither is found in an X in the center of the root and phloem is positioned between the fithe X monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	cot	29
monocot dicot both neither monocot dicot both neither monocot dicot both neither monocot dicot both neither is found in an X in the center of the root and phloem is positioned between the fithex monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	oth sither	<u>D</u> e:
monocot dicot both neither ar bundles of xylem and phloem are arranged in a ring at the outside of the monocot dicot both neither is found in an X in the center of the root and phloem is positioned between the is the X monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	ts are found in multiples of fours or fives	FO Indicested wastes leave the sponge through the:
both neither ar bundles of xylem and phloem are arranged in a ring at the outside of the monocot dicot both neither is found in an X in the center of the root and phloem is positioned between the f the X monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	onocot	(a) mouth
neither monocot dicot both neither is found in an X in the center of the root and phloem is positioned between the thex monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	ICOT oth	
monocot dicot both neither is found in an X in the center of the root and phloem is positioned between the fithe X monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	either	(d) pore cells
monocot dicot both neither is found in an X in the center of the root and phloem is positioned between the the X monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	undles of xy lem and phloem are arranged in a ring at the outside of the	53. The stinging structures used by Cnidarians to capture prey are called:
dicot both neither is found in an X in the center of the root and phloem is positioned between the is the X monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	nonoco†	(a) nematocysts (b) trichocysts
neither is found in an X in the center of the root and phloem is positioned between the fithe X monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	icot	
is found in an X in the center of the root and phloem is positioned between the the X monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	either	(d) occili
rithe X monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	ound in an ${\sf X}$ in the center of the root and phloem is positioned between the	54. Jellyfish and squid use the same method of movement, nowever jeny isn to it.
monocot dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	e×	
dicot both neither and roots do not grow thicker from year to year monocot dicot both neither	onocot	(b) move as fast as squid
neither and roots do not grow thicker from year to year monocot dicat both neither	icot	(c) use their tentacles for movement, but squita so when they move
and roots do not grow thicker from year to year monocot dicot both heither	either	(L) INVO TITO CONT.
monocot dicot both neither	and and arou thicker from year to year	55. Which of the following phyla is believed to be the first group of organisms to evolve
dicot both heither	onocot	Porifera
The second of th	icot a series in the start of the series of	
	And the state of t	(d) Nematoda

61. What i tiny te a@G@	3. T 3. T 3. S 3. S 3. S 3. S 3. S 3. S 3. S 3. S	59. All med (a) (c) (b) med	58. When secretic (a) (b) (c) (d) (e)	57.Earthw (e) (e) (e) (e) (e) (e) (e) (e) (e) (e)	56.Member (a) (b) (c) (e)
61. What is the name of the feeding structure that many molluscs have that consists of tiny teeth that cover a piece of tissue stretched over a rod of cartiloge? (a) beak (b) foot (c) radula (d) incisors	60. The squid belongs to class: (a) Bivalvia (b) Cephalopoda (c) Uniramia (d) Crustacean	59. All members of phylum Mollusca have the following characteristics EXCEPT: (a) foot (b) shell (c) mantle (d) head (e) visceral mass	When an earthworm secretes a slime layer to receive the eggs and sperm, this secretion is produced by the: (a) setae (b) nephridia (c) prostomium (d) clitellum (e) seminal vesicles	57.Earthworms move by using (a) setae and muscles (b) nephridia (c) nematocysts (d) trichocysts (e) cilia	56. Members of phylum Platyhelminthes reproduce: (a) sexually (b) asexually (via fission) (c) asexually (via fragmentation) (d) sexually and asexually (via fragmentation) (e) sexually and asexually (via fragmentation)

66. What is the function of a swim blodder in fishes?

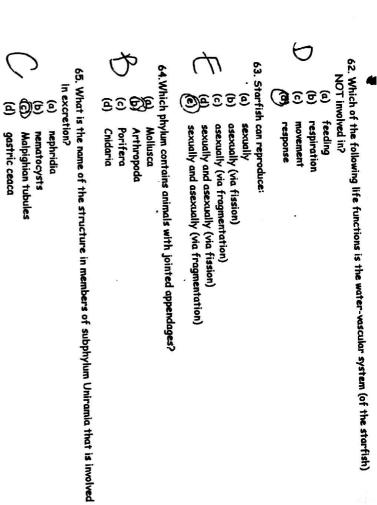
(a) buoyancy
(b) hold urine
(c) excretion
(d) elimination

67. Fishes have a closed circulatory system that consists of a heart that has:

two ventricles and one atrium

Sho atria and one ventricle

two atria and two ventricles no atria and three ventricles



	8	
, 68	3. Which	of the following IS NOT a characteristic of most amphibians?
1	(a)	aquatic as larva and terrestrial as adults
	(b)	lack scales and çlaws
()	(c)	vertebrates
a	@)	are herbivorous as adults
69	. Why do	amphibians burrow in the mud when the weather is really hot or really cold?
	(a)	to mae from predators
	(p)	to sneak up on prey
. (. @	to avoid a huge increase or decrease in their body temperatures as their
		bodies curnor regulate their temperature
1	(d)	to reproduce before they die
70	. Which o	of the following vertebrates is most closely related (evolutionarily speaking) to
	reptiles	S S S S S S S S S S S S S S S S S S S
	(a)	amphibians
	(b)	fishes
	_ (10)	birds of the state
	(q)	mammals
71	l. What cl	naracteristics of a reptile enable it to live its entire life outside of water?
	(a)	scaly skin
	(b)	lungs
\mathcal{I}) (c)	amniotic eggs
	(4)	all of the above
72	What is	s the main function of the contour feathers on a bird?
	6	flight
Λ	(b)	warmth
H	(c)	water repulsion
1.	(d)	appearance (to attract mates)
73	. Which	of the following IS NOT a function of the crop in birds?
	(a)	store food
	(b)	moisten food
~	(c)	create food for young
T)	' 颛	grind food
		- 4
		A THEOREM TO THE

74.	Which	of the following IS NOT a characteristic common to ALL mammals? are endothermic
	(b)	have fir, hair, and/or subcutaneous fat
رر	(a)	are viviparous
	(a)	have mammary glands
75.	Whales	breath using their:
	(1)	lungs
Λ	(b)	gills
H	(c)	book gills and/or book lungs
	(d)	skin
181		100 mg