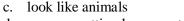
-10-Q2W8-Quarter 2 Rvision-H.W.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1	A mechanism of Darwin's proposed the	eory is	
 1.	a. artificial selection	c. variation	
	b. evolution	d. all of these	
 2.	Slime molds are said to be like animals	during much of their life cycle because they	
	 a. reproduce by making spores 		
	b. move about and engulf food		
	a look lika animala		



d. grow on rotting leaves or tree stumps

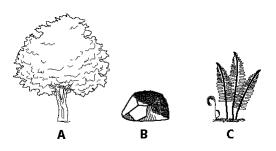
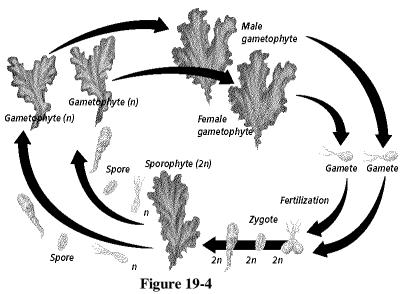


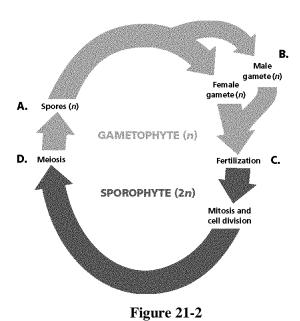
Figure 22-2

 Э.	which of the plants shown in Figure 22-2 has a	i uoi	minant gametophyte generation?
	a. B	c.	A
	b. C	d.	all of them
 4.	Which of the plants shown in Figure 22-2 uses	alte	rnation of generations to reproduce?
	a. C	c.	В
	b. A	d.	all of them
5.	Which of the plants shown in Figure 22-2 uses	seed	ds to reproduce?
	a. C	c.	A
	b. B	d.	all of them
6.	Which of these are vascular plants?		
	a. spike mosses	c.	club mosses
	b. ferns	d.	all of these
7.	A pattern of evolution that results when two un	rela	ted species begin to appear similar because of
	environmental conditions is		
	a. directional selection	c.	disruptive selection
	b. divergent evolution	d.	convergent evolution
8.	Which of the following are considered BOTH	a va	scular and non-seed plant?
	a. Hepatophytes	c.	Pterophytes
	b. Coniferophytes	d.	Bryophytes
 9.	What is the movement of genes into and out of	a ge	ene pool called?
	a. nonrandom mating	c.	direct evolution
	b. gene flow	d.	random mating

10	An amoeba engulfs food by		
	a. forming cysts		
	b. using its oral groove and the action of cilia		
	c. osmosis		
	d. surrounding the food with pseudopodia		
11.			
11.	a. water	c.	air
	b. soil	d.	all of these
12.	Horsetails are		
12.	a. lycophytes	c.	bryophytes
	b. pterophytes	d.	arthrophytes
	o. perophytes	u.	urin opnytes
	Deuteromycotes Figure 20-4 Lichens Ascomycotes		
13.	According to Figure 20-4, which type of fungi	has	the most species?
	a. deuteromycotes	c.	ascomycotes
	b. basidiomycotes	d.	lichens
14.	Mushrooms, which are basidiomycostes, make 20-4?	up '	what percentage of the fungi species, according to Figure
	a. 20%	c.	50%
	b. 4%	d.	25%
	Male	hyte	



 15.	When does meiosis occur in Figure 19-4?
	a. when the spores form
	b. when the zygotes form
	c. when the male and female gametophytes form
	d. when the gametes form
 16.	When does mitosis occur in Figure 19-4?
	a. only as the zygote forms
	b. only as spores grow into gametophytes
	c. any time there is cellular growth
	d. only when the male and female gametophytes make the gametes
17.	While looking for fossils on an eroded hillside, you discover fossil coral and fish in one layer. In a layer just
	above, you find the fossil imprint of a fern frond and some fossil moss. Assuming the rock has not been
	disturbed, which of the following is the most probable conclusion?
	a. The area had been a sea until recent times.
	b. A forest had once grown there but had become submerged by water.
	c. A saltwater sea had changed to a freshwater lake in ancient times.
	d. A sea had been replaced by land in ancient times.
 18.	Although all plants produce spores only produce flowers.
	a. Ginkgophytes c. Anthocerophytes
	b. Coniferophytes d. Anthophytes
 19.	The primitive Earth atmosphere is hypothesized to have consisted mostly of
	a. oxygen, nitrogen, and water vapor
	b. amino acids, ATP, carbohydrates, and oxygen
	c. hydrogen, methane, ammonia, and water vapor



d. none of these

_ 20. Where are seeds developed in Figure 21-2?
a. C
b. B
c. A
d. D

21. Where does the sexual reproductive cycle begin in Figure 21-2?
a. D c. A
b. C d. B

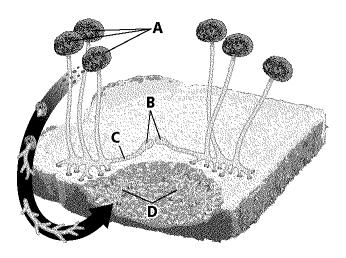


Figure 20-2

22.	In Figure 20-2, which structures gather nutrient	ts?	
	a. D	c.	В
	b. C	d.	A
 23.	In Figure 20-2, what would cause a zygospore	to fo	orm at B?
	a. heat	c.	an overabundance of food
	b. unfavorable environmental conditions	d.	moisture
 24.	In Figure 20-2, where are spores formed?		
	a. C	c.	D
	b. A	d.	В
 25.	Anthophytes that live for only one year or less	are o	called
	a. annuals	c.	perennials
	b. dicots	d.	biennials
 26.	Members of the Kingdom Protista have		
	a. one or many cells	c.	a wide variety of sizes and shapes
	b. membrane-bound organelles	d.	all of these
 27.	Which group of organisms is believed to have	been	the earliest to evolve?
	a. cyanobacteria	c.	mammals
	b. aquatic dinosaurs	d.	land plants
 28.	Which of the following is <u>not</u> a factor that caus	ses c	hanges in the allelic frequencies of individuals in a
	population?		
	a. directional selection	c.	disruptive selection
	b. stabilizing selection	d.	random selection

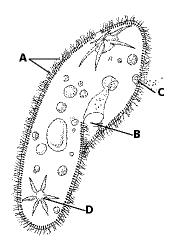


Figure 19-2

	29.	Which struc	ture show	n in Figu	ıre 19-2 i	s used for	locomotion?
--	-----	-------------	-----------	-----------	------------	------------	-------------

a. D c. C b. A d. B

_ 30. Within a decade of the introduction of a new insecticide, nearly all of the descendants of the target pests were immune to the usual-sized dose. The most likely explanation for this immunity to the insecticide is that

- a. the pests developed physiological adaptations to the insecticide
- b. eating the insecticide caused the bugs to become resistant to it
- c. it destroyed organisms that cause disease in the insects, thus allowing them to live longer
- d. eating the insecticide caused the bugs to become less resistant to it
- ____ 31. The fronds of ferns are divided into leaflets called _____.
 - a. cycads

c. pinnae

b. rhizomes

d. sori

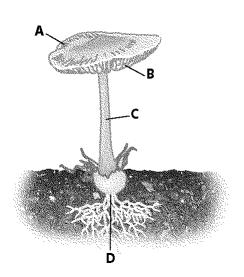


Figure 20-3

 32.	W	here are spores released in the organism show	wn i	n Figure 20-3?
	a.	C	c.	A
	b.	В	d.	D
 33.	W	here does meiosis in the organism shown in	Figu	re 20-3?
	a.	A	c.	В
	b.	D	d.	C
 34.	Dι	ring the gametophyte generation, a green alg	ga _	
	a.	reproduces asexually		
	b.	has the haploid number of chromosomes		
	c.	has the diploid number of chromosomes		
	d.	develops from a zygote		
 35.	Pe	nicillin kills bacteria by		
	a.	depriving them of nutrients		
	b.	consuming them		
	c.	causing holes to develop in their cell walls		
		imprisoning them		
36.	Mo	ost sporozoans reproduce by		
		both sexual and asexual reproduction	c.	sexual reproduction only
	b.	fragmentation	d.	conjugation

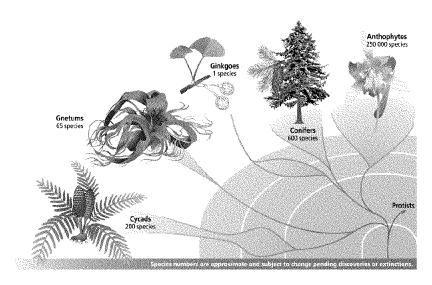
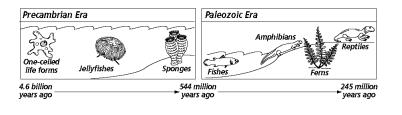


Figure 22-6

- 37. According to Figure 22-6, which species was the fastest to differentiate from the rest of the ones shown? a. anthophytes c. anthophytes, conifers, and ginkos b. gnetums and cycads d. conifers and ginkos 38. What can be inferred from Figure 22-6? a. seed plants are more closely related to protists than non-seed plants

 - b. ginkos only grow in one area of the world
 - there used to be more than one species of ginkos
 - anthophytes are the most common seed plants

39.			frica and South America slowly drifted apart after once			
	being a single landmass. The monkeys on the two continents, although similar, show numerous genetic differences. Which factor is probably the most important in maintaining these differences?					
	a. comparative embryology	с.				
	b. geographic isolation	d.	comparative anatomy			
	Figure 22-5					
40.	You pick a flower off the plant that produced number of petals this flower could have?	the se	eed shown to the right in Figure 22-5. What is a possible			
	a. 8	c.	7			
	b. 3	d.				
41.	How are the vascular tissues bundled in the s	talks o	of the seed shown to the left in Figure 22-5?			
	a. scattered	c.	in a ring			
	b. they do not exist	d.	net-like			
	B C D					
42	Figure 21-3	an tha	tuonamentation of mutuianta?			
42.	Refer to Figure 21-3. Which structure is used for a. B		A			
	b. C		D			
43.	Refer to Figure 21-3. Removing which struct					
	a. C	c.	В			
	b. D	d.	A			



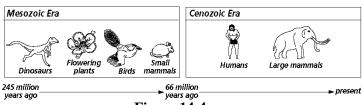


Figure 14-4

- According to Figure 14-4, the correct chronological order of organisms as they develop are _____
 - birds, dinosaurs, jawed fish, prokaryotes
 - prokaryotes, jawed fish, dinosaurs, birds
 - dinosaurs, jawed fish, birds, prokaryotes
 - jawed fish, dinosaurs, prokaryotes, birds
- 45. According to Figure 14-4, in how many eras have mammals existed?
 - a.

b.

- d. 7
- 46. According to Figure 14-4, what was the earliest form of multicellular life on Earth?

land plants c.

invertebrates

- reptiles
- 47. In hyphae divided by septa, cytoplasm flows from one cell to the next through _____.
 - spores

chitin

b. pores

haustoria



Figure 22-3

- 48. What type of plant died out in the time marked B in the timeline shown in Figure 22-3?
 - a. non-seed vascular plants

seed plants

b. vascular plants

- nonvascular plants
- 49. Which of the following fossils are not found in sedimentary rock?
 - frozen mammoths

petrified wood

imprints

amber

____ 50. What type of adaptation is shown in Figure 15-4?

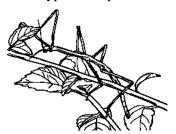


Figure 15-4

	8		
	a. homologous structure	c.	artificial selection
	b. camouflage	d.	mimicry
 51.	A protozoan that moves by lashing one or more	e of	its whiplike parts is a(n)
	a. sporozoan	c.	water mold
	b. flagellate	d.	thallus
 52.	electricity in an attempt to a. form complex organic compounds b. determine how the dinosaurs became extin c. find out how ozone forms in the atmospher d. determine the age of microfossils	ct e	ne, and hydrogen to heating and cooling cycles and jolts of
 53.	A structure in some bacteria that is resistant to		
	a. autotroph		endospore
	b. coccus	d.	prophage
 54.		s is _	,
	a. nomenclature	c.	phylogeny
	b. taxonomy	d.	classification
 55.	Structures that have a similar evolutionary orig	in a	nd structure but are adapted for different purposes, such as
	a bat wing and a human arm, are called		
	a. homozygous structures	c.	analogous structures
	b. embryological structures	d.	homologous structures

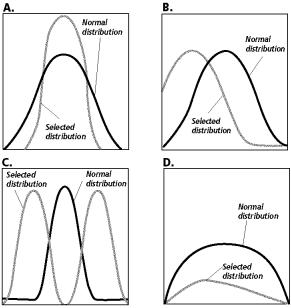


Figure 15-6

____ 56. Which type of natural selection shown in Figure 15-6 would favor giraffes that need to reach the tallest branches to eat?

a. C c. B

b. D d. A

- 57. Which of the following statements are true about fossils?
 - a. There are many different ways that fossils can be formed.
 - b. Fossils are usually found in sedimentary rock layers.
 - c. Fossil insects that were trapped in ice or hardened into amber.
 - d. all of these
- 58. A(n) is a virus that infects a bacterial cell.

a. plasmid c. bacteriophage

b. decomposer d. endospore

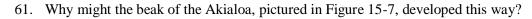
- 59. Since the 1950s, experiments have been conducted that lead scientists to conclude that life may have originated _____.
 - a. in other parts of the universe
 - b. when prokaryotes joined together to make the first eukaryotic cell
 - c. in small pools of water where amino acids could be concentrated
 - d. spontaneously as originally thought
- 60. Which of the following processes brings about an exchange of genetic information between bacterial cells?

a. replication

c. mutualism

b. binary fission

d. conjugation



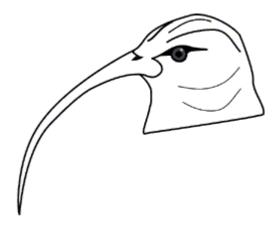
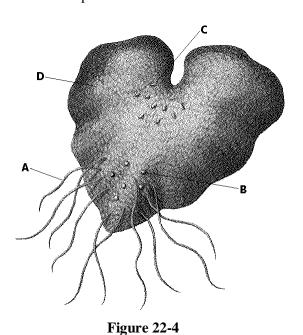


Figure 15-7

- a. to reach nectar in flowers
- b. to crack open seeds

- c. to dig through tree bark for insects
- d. to scoop up fish
- 62. A clear fish imprint in a rock indicates that the rock is probably _____
 - a. igneous
 - b. metamorphic

- c. sedimentary
- d. volcanic



63. Where is the structure shown in Figure 22-4 located?

a. in the root

c. in the leaves

b. in the ground

d. in the stalk

64.Both algae and plants store their food in the form of ____

a. glycogen

c. proteins

b. glucose

d. cellulose

 65.	A group of related classes of plants is a a. division	c. database
	b. taxon	d. kingdom
66.	Which answer BEST shows an animal's adapta	
 00.	a. an elephant's long trunk	c. migration of birds in winter
	b. camouflage in a tree frog	d. the long neck of a giraffe
67.	Fossil and genetic evidence suggests that	
 07.	a. lycophytes	c. mosses
	b. liverworts	d. horsetail
68.		ave occurred for life to come into being: the formation of
 00.	simple organic molecules important to life and	
	a. development of prokaryotic cells in early of	
	b. organization of molecules into complex organization	
	c. appearance of amino acids, monosaccharid	
	d. an atmosphere rich in water vapor, oxygen	n, and ATP
 69.	Which of the bacteria is the cause of pneumoni	nia?
	a. rickettsia	c. streptococcus pneumoniae
	b. staphylococci	d. Treponema pallidum
	A. B. C. D.	
	Figure 19-3	
 70.	Which of the protists shown in Figure 19-3 wo	ould use a pseudopod?
	a. C	c. A
	b. D	d. B
 71.	Which of the protists shown in Figure 19-3 has	s the hardest exterior?
	a. D	c. C
	b. B	d. A
 72.	Which protist group produces much of the oxy	ygen on Earth?
	a. algae	c. water molds
	b. diatoms	d. slime molds

c. lettuced. grass

____ 73. Which of the following is not a dicotyledon?

a. dandelionb. maple tree

 74.	An anthophyte differs from a conifer in that		
	a. its seeds are enclosed in a fruit	c.	it is deciduous
	b. it produces seeds	d.	it has vascular tissue
 75.	Which of the following is NOT an evolutionary	y ad	aptation in bacteria?
	a. They reproduce rapidly.		
	b. They cannot exist under adverse conditions		
	c. They can utilize substances harmful to other	er or	ganisms.
	d. They have a high rate of mutation.		
 76.	The structures shown in Figure 15-5 are	•	
	Bat wing Bird wing Flying squirrel wing		
	Figure 15-5		
	a. heterologous	c.	homologous
	b. vestigial	d.	analogous
 77.	Economically important members of the phylur	m O	omycota include
	a. cellular slime molds	c.	
	b. plasmodial slime molds	d.	all of these
 78.	Which fact is the basis for using the fossil record	rd a	s evidence that evolution has taken place?
	a. There are fossils of all life-forms to be found		•
	b. In undisturbed layers of rock strata, the old		
	c. Fossils have been shown to provide a comp	olete	e record of human evolution.
	d. All fossils were formed at the same time.		
 79.	Fossils of fungi are rare due to	~	
	a. their late appearance on the Geologic Time	Sca	ale
	b. their composition of soft materials		
	c. their lack of species diversityd. their ability to form protective zygospores		
00			11
 80.	Which of the following are NOT considered no		
	a. Coniferophytesb. Anthocerophytes	c. d.	Hepatophytes Bryophytes
	o. Antiloccrophytes	u.	Dryophytes