1.	Fungi:	
	a.	Are heterotrophic organisms that get their nutrition directly from photosynthesis.
	<mark>b.</mark>	Secrete hydrolytic exoenzymes to breakdown their food.
	c.	Are often saprobes that absorb nutrients from living hosts.
	d.	Ingest their food before digesting it.
	e.	None of the above
2.	Parasitio	e fungi have modified hyphae called, which penetrate and absorb nutrients from host tissues.
۷.		Haustoria
		Mycelia
		Asci
		Basidia
	e.	None of the above
_		
3.		ast to plants, the cell walls of fungi are composed of
		Lignin
		Peptidoglycan
	c.	Cellulose
	d.	<u>Chitin</u>
	e.	Pectin
4.	Diploid	cells are produced during which stage of fungal reproduction?
		Plasmogamy
		Meiosis
		Karyogamy
		A & C only
		All of the above
	О.	Thi of the doore
5.	Which	choice below represents the correct order of events in fungal sexual reproduction?
٥.	a.	Karyogamy, plasmogamy, germination, meiosis
		Plasmogamy, karyogamy, meiosis, germination
		Meiosis, plasmogamy, germination, karyogamy
		Germination, plasmogamy, karyogamy, meiosis
	e.	Plasmogamy, karyogamy, germination, meiosis
,	D	and the second s
6.		mycetes are important decomposers of wood because of their ability to break down
	a.	Cellulose
		Cambium
		Xylem
		Phloem
	e.	<u>Lignin</u>
7.	During a	asexual reproduction in ascomycetes, the produce
	a.	Basidia; basidiospores
	b.	Asci; ascospores
	c.	Conidiophores; conidia
		Ova; flagellated spores
	e.	None of the above
8.	Chytrid	S:
	a.	Are the most primitive fungi.
	b.	Can be found in colonies with hyphae.
	c.	Have flagellated spores, called zoospores.
	d.	A & C only
		All of the above
	Ŭ.	v v ·· v · · v

	a.	It allows for the formation of more hyphae.
	b.	It allows for the formation of more conidia.
	c.	It allows for many genetic recombinations to occur.
	d.	It increases the surface area for the production of basidiospores.
	e.	All of the above
	C.	All of the doove
10	TT1	20.7
10.		with two nuclei per cell are called
	a.	Diploid
	b.	<u>Dikaryotic</u>
	c.	Multicellular
	d.	Haploid
	e.	None of the above
11.	Deutero	omycetes:
	a.	Are the most ancient fungi.
	b.	Are predatory fungi.
	C.	Include the fungal components of lichens.
		Are fungi with no known sexual reproduction stage.
	e.	All of the above
12.	Which of	of the following structural components are common to both fungal and animal cells?
	a.	Collagen
	b.	Chitin
	C.	Cellulose
		A & C only
	e.	None of the above
	С.	Tone of the above
13	What is	the correct sequential order found in early animal development?
15.		
	a.	Cleavage, gastrulation, blastulation
	b.	Cleavage, blastulation, gastrulation
	c.	Blastulation, gastrulation, cleavage
	d.	Blastulation, cleavage, gastrulation
	e.	None of the above
14.	How are	e sponges different from all other animals?
	a.	They are completely sessile.
	b.	They have radial symmetry and are suspension feeders.
	c.	They are not multicellular.
	d.	A & B only.
		None of the above
	C.	Notic of the above
1.5	Coatmile	ation regults in the formation of the
13.		ation results in the formation of the
	a.	Mesoderm
	b.	Blastocoel
	c.	Archenteron
	d.	A & C only
	e.	All of the above
16.	Mesode	rm gives rise to the vertebrate
	a.	Heart
	b.	Lungs
	c.	Kidneys
	d.	A & C only
	e.	All of the above
	•.	

17.		ome development is characterized by the
		Radial cleavage of the eight-cell stage.
		Anal development from the blastopore during the gastrula stage.
		Folding of the archenteron to form the body cavity during the gastrula stage.
		A & C only
	e. A	All of the above
10	Cambalia	atau ta
18.	Cephaliza	
		Γhe formation of a coelom by budding from the archenteron. Γhe concentration of sensory organs in a head region.
		Commonly found in animals with radial symmetry.
		The formation of a tail.
		None of the above
	C . 1	Notic of the above
19.	A true co	elom .
	a. l	s a fluid-filled cavity completely lined by mesoderm.
		Allows organs to grow and move independently of the outer body wall.
		May be used as a skeleton by soft-bodied coelomates.
	d. l	Provides support for internal organs.
	e. A	All of the above
• •	*****	
20.		the following characteristics is found only in animals?
		Flagellated sperm
		Heterotrophic nutrition
		<mark>Hox genes</mark> A & C only
		All of the above characteristics are exclusive to animals
	C. 1	An of the above characteristics are exclusive to animals
21.	Which of	the following is not descriptive of a pseudocoelomate?
		Body cavity incompletely lined by mesoderm
	b. 7	True tissues
	c.	Triploblastic
	d. l	Radial symmetry
	e. A	All of the above characteristics describe a pseudocoelomate
22	What hod	ly symmetry and form of locomotion would one expect from an animal that actively moves around?
		Radial; swim
		Radial; float
		Bilateral; swim
		Bilateral; float
		None of the above
22	a 1	
23.		nave
		No real symmetry
		Γrue tissues
		Choanocytes
		<mark>A & C only</mark> All of the above
	e. 1	An of the above
24.	All of the	following animals have a gastrovascular cavity for digestion EXCEPT
		Sea wasps
		Flukes
		Ribbon worms
	d. 4	All of the above animals have a gastrovascular cavity
	e. I	None of the above animals have a gastrovascular cavity

25.	Hermaphrodites
	a. Contain male sex organs
	b. Contain female sex organs
	c. Usually cross-fertilize
	d. A & B only
	e. All of the above
26.	Which of the following combinations of phylum and characteristics is INCORRECT?
	a. Annelida – segmentation; closed circulatory system; hydrostatic skeleton
	b. Nematoda – alimentary canal; tough cuticle; circular muscles
	c. Rotifera – parthenogenesis; crown of cilia; microscopic animals
	d. Brachiopoda – lophophore; stalked; hinged shells
	e. All of the above are incorrect
27.	All of the following animals are coelomates EXCEPT
	a. Brachiopods
	b. Earthworms
	c. Leeches
	d. Tapeworms
	e. Snails
20	Tamian
28.	Torsion a. Results in a U-shaped digestive tract in gastropods
	b. Is characteristic of all molluses
	c. Is responsible for the spiral growth of bivalve shells
	d. Describes the thrashing movement of nematodes
	e. Results in the molting of insects
	•
29.	All of the following structures function in suspension feeding EXCEPT
	a. Snail radulas
	b. Ectoproct lophophores
	c. Sponge choanocytes
	d. Clam gills
20	e. All of the above function in suspension feeding
<i>3</i> 0.	Throw out this question
31.	Cephalopods are the only molluses .
	a. That reproduce sexually
	b. With segmented bodies
	c. With a closed circulatory system
	d. A & C only
	e. All of the above
22	A major characteristic of all arthropods is
32.	a. A cephalothorax
	b. Book lungs
	c. Complete metamorphosis
	d. All of the above are characteristic of all arthropods
	e. None of the above are characteristic of all arthropods
	the first of the accidance simulations of the actinopolic
33.	The proglottids of a tapeworm contain an elaborate system.
	a. Sensory
	b. Circulatory
	c. Digestive
	d. Attachment
	e. Reproductive
34.	Some digestion in sponges takes place in the

		Amoebocytes
		Spongocoel
	c.	Osculum A & C only
	e.	•
	C.	
35.		of the following animals are most closely related to spiders?
		Scorpions
		Pill bugs
		Millipedes
		Mosquitoes Grasshoppers
	С.	Grassnoppers
36.	Which o	of the following animals have lophophores?
	a.	Ectoprocts
	b.	Brachiopods
	c.	Cephalopods
		A & B only
	e.	All of the above
37	Pharvno	geal slits appear to have functioned first as
57.	a.	
	b.	÷ · · · · · ·
		Components of the jaw
		Portions of the inner ear
	e.	Suspension-feeding devices
38	Which o	of the following is not a derived characteristic of craniates?
50.		A mineralized endoskeleton
	b.	
	c.	1 J U
	d.	Heart with at least two chambers
	e.	All of the above are characteristics of craniates
39	Which o	of the following is incorrectly paired with its gas exchange mechanism?
5).	a.	Amphibians – skin and lungs
		Reptiles – lungs
		Bony fishes – swim bladder
	d.	A & C only
	e.	None of the above are incorrectly paired
40	Which o	of the following is in the lobe-fin clade?
	a.	Lampreys
	b.	Hagfishes
	c.	Ray-finned fishes
		Sharks
	e.	None of the above
41.		of these represents the earliest lineage of vertebrates?
	a.	Sharks
	b.	Hagfishes
		Lampreys Lancelets
	e.	

42. Oviparity is a reproductive strategy that _____.

		Is necessary for flying vertebrates Is used by both reptiles and some sharks
		A & C only
	e.	All of the above
43.	Amniote	es were the first animals to
		Have eggs with hard outer shells
		Have a neck that separates the head from the shoulders
		Use their ribcages to ventilate their lungs
		A & C only
	e.	All of the above
44.		naintain their buoyancy by
		Storing excess oil in their livers
		Inflating their swim bladders
		Increasing uric acid concentrations in their tissues, which makes them hypertonic to their surroundings
		A & C only All of the above
	C.	All of the above
45.		vonian period is known as the
		Age of Gnathostomes
		Age of Fishes
		Age of Amphibians Age of Reptiles
		None of the above
46.	Annelid	
		Include leeches, earthworms, and polychaete worms
		Have characteristically long bodies with both internal and external segmentation Have a mouth that is separate from the anus
		All of the above
		A and C only
47.	Animals	such as and the simplest to have
	a.	Flatworms, body cavity
		Jellies complete digestive tract
		Snails, body cavity
		Sponges, bilateral symmetry
	e.	Roundworms, complete digestive tract
48.		entified species of animal displays the following characteristics: bilateral symmetry, a complete digestive system, an
		culatory system, distinct body segmentation, and it molts when it grows. To which one of the following animal phyla
		s species most likely, belong.
		Annelida
		Arthropoda Nematoda
	c. d.	Platyhelminthes
	e.	Cnidaria
49.		er vascular system of a sea star functions
	a.	Vision
	b.	Digestion

a. Protects the embryo inside the mother

c. Movement of the feet

a. Pharyngeal slits or clefts

e. C and D

b. Notochord

d. Pumping water for swimming movements

50. Which one of the following chordate characteristics contributes most to the formation of your ears?

6

- c. Dorsal, hollow nerve chord
- d. Muscular, post anal tail
- e. None of the above
- 51. Which of the following is not a correct match
 - a. Mammalia, kangaroo
 - b. Osteichthyes, perch
 - c. Aves, canary
 - d. Chondrichthyes, great white shark
 - e. Gnathostomata, hagfish
- 52. Which of the following can be found in craniates but not lancelets or tunicates?
 - a. Two clusters of Hox genes
 - b. Neural crest
 - c. Duplications of genes that produce signaling molecules and transcription factors
 - d. All of the above
 - e. None of the above
- 53. A lamprey, a shark, a lizard, and a rabbit share all the following characteristics **except**
 - a. Post anal tail
 - b. Hinged haws
 - c. Vertebrae
 - d. Dorsal, hollow nerve chord
 - e. Pharyngeal clefts in embryo
- 54. The first vertebrates to live on land were
 - a. Chondrichthyans
 - b. Mammals
 - c. Amphibians
 - d. Reptiles
 - e. Agnathans
- 55. The adaptation that freed vertebrates from water for reproduction and allowed them to radiate into diverse terrestrial environments was the
 - a. Placenta
 - b. Bony Appendage
 - c. Amniotic Egg
 - d. Lateral swim line
 - e. Operculum
- 56. Primates are distinguished from other mammals by
 - a. Fur, claws, small litters,
 - b. Opposable thumbs, nails, and good depth perception
 - c. Stereoscopic vision, mammary glands, single births
 - d. Long tails used for balance, stereoscopic vision, opposable thumbs
- 57. What was the earliest hominid to have an enlarged brain (relative to body size)?
 - a. Ardipithecus
 - b. Homo habilis
 - c. Homo erectus
 - d. Australopithecus
 - e. Homo neanderthalensis