



سری سوال: یک ۱

زمان آزمون (دقیقه): تستی: ۵۰ تشریحی: ۰

تعداد سوالات: تستی: ۳۰ تشریحی: ۰

عنوان درس: متون زیست شناسی

رشته تحصیلی/کد درس: زیست شناسی گرایش عمومی ۱۱۱۲۰۲۵

1- which cells has several nuclei per cell?

- | | |
|-----------------------------|--------------------------|
| 1. Mammalian red blood cell | 2. skeletal muscles cell |
| 3. phloem sieve tube cell | 4. plant cell |

2- Artificial apparatus for biological reactions, is called?

- | | | | |
|------------|------------|-------------|--------------------|
| 1. In vivo | 2. natural | 3. in vitro | 4. internal medium |
|------------|------------|-------------|--------------------|

3- Which responsible for the colors of flower and fruits?

- | | | | |
|----------------|-----------------|-------------|-----------------|
| 1. Chloroplast | 2. mitochondria | 3. ribosome | 4. chromoplasts |
|----------------|-----------------|-------------|-----------------|

4- Means of Cessation flow of energy and matter is?

- | | | | |
|---------|----------|----------|-------------|
| 1. live | 2. alive | 3. death | 4. blooming |
|---------|----------|----------|-------------|

5- which is the fertilized ovum before cleavage?

- | | | | |
|-----------|---------|-------------------|-----------|
| 1. zygote | 2. ovum | 3. precursor cell | 4. gamete |
|-----------|---------|-------------------|-----------|

6- hydras and yeasts reproduce by which method?

- | | | | |
|------------|------------|--------------|------------|
| 1. meiosis | 2. mitosis | 3. splitting | 4. budding |
|------------|------------|--------------|------------|

7- Which gonad in animals produces ovum?

- | | | | |
|-----------|----------|---------------|----------|
| 1. Testis | 2. ovary | 3. choanocyte | 4. spore |
|-----------|----------|---------------|----------|

8- Which of the following statements is true?

1. In asexual reproduction known as fission, the cell division is meiosis.
2. In mammals there is only asexual reproduction.
3. In paramecia meiosis precedes fertilization.
4. Old age is an important factor for killing by predators.

9- An acrosome on the tip of the sperms head to liberate enzyme for lyze jelly coats around eggs.

- | | | | |
|--------------|----------------|------------|-------------|
| 1. Penetrate | 2. passes into | 3. operate | 4. ruptures |
|--------------|----------------|------------|-------------|

10- Which is the subdivision of genus in plant and animal kingdom?

- | | | | |
|-----------|------------|----------|------------|
| 1. Phylum | 2. species | 3. genus | 4. kingdom |
|-----------|------------|----------|------------|

11- What named a group of individuals, unicellular or multicellular, living together in close association?

- | | | | |
|------------|----------------|-----------|-------------|
| 1. Species | 2. tribal life | 3. colony | 4. parasite |
|------------|----------------|-----------|-------------|



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12- Which class of phylum protozoa characterized by possessing small bristle-like cytoplasmic projection on free surface of the cell?

1. Flagellate 2. rhizopoda 3. ciliate 4. sporozoa

13- Contractile vacuoledischarges its contents to the exterior.

1. Except 2. abruptly 3. seldom 4. precisely

14- The name rhizopoda signifying root like feetby the extension of the body by which a rhizopod moves.

1. is justified 2. justifying
3. to justify 4. have been justified

15- Surface: volume ratio of any solid body of constant shapeas the size decreases.

1. Decreases 2. doubles 3. enlarges 4. increases

16- A distinguishing quality or characteristic.

1. Gene 2. inheritance 3. trait 4. taint

17- Which character normally masks or inhibits the expression of another character?

1. Recessive 2. dominant 3. genotype 4. phenotype

18- Eachparticle becomes attached to the coat of a bacterium by means of its rigid tail.

1. Infected 2. bacteriophage 3. parasit 4. virus

19- mantel's second law is the law of independent

1. Segregated 2. constructed 3. separated 4. assortment

20- The chromosomes become visible shortly before a cell to divide.

1. Have been ready 2. will ready
3. is ready 4. ready

21- Each cell in the body of every human being has 46 chromosomes.

1. Comparatively 2. nearly 3. approximately 4. exactly

22- Which is the colorless matrix of a chloroplast?

1. Stroma 2. photosynthetic membranes
3. lamellar system 4. cytochrome

23- The ATP and NADPH needed tothe dark reactions arefrom the light reactions.

1. Derived - drive 2. drive – derived 3. derive - driven 4. driven – derive



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24- Chlorophyll is a porphyrin withatoms in the center.

1. Iron 2. magnesium 3. oxygen 4. hydrogen

25- The synthesis of organic material by the plant had not yet been in the eighteenth century.

1. Established 2. establishing 3. establish 4. establishes

26- Electron microscopy hasthe presence of quantosomes, in the lamellae.

1. Revealed 2. lying 3. stabilizing 4. serve

27- Pertaining to life and living organisms.

1. Salinity 2. arctic 3. biotic 4. photoperiod

28- Nectar is sweet substance secreted by special

1. Gonads 2. glands 3. grain 4. enzyme

29- the organism`s address is and organism`s profession is.....

1. niche- habitat 2. habitat- ecosystem
3. habitat - niche 4. niche-ecology

30- the English equivalent of the greek root of bios in the word biomass is?

1. Dried 2. inner bark 3. funnel 4. life