

تعداد سوالات: تستی: ۳۰ تشریحی: ۵  
زمان آزمون: تستی: ۴۵ تشریحی: ۳۵ دقیقه  
آزمون نمره منفی دارد ○ ندارد ⊗

نام درس: متون زیست شناسی  
رشته تحصیلی/ کد درس: زیست شناسی - عمومی (۱۱۱۲۰۲۵)

گد سری سوال: یک (۱) استفاده از: .. مجاز است. منبع: ..

پیامبر اعظم (ص): روزه سیر آتش جهنم است.

Choose the correct answer.

جواب صحیح را انتخاب کنید.

- Which cells lose their nucleus in the process of maturation?
  - parenchyma
  - phloem sieve tube cells
  - chorenchyma xells
  - collenchyma cells
- What is the general rule about the number of nuclei per cell?
  - one nucleus per one cell
  - several nuclei per one cell
  - one nucleus per two cells
  - two nuclei per one cell
- Together, the endoplasmic and ectoplasmic regions are known as the
  - cytoplasm
  - protoplast
  - plasma membrane
  - lysosome
- The living quality is based upon the continuous flow of energy and .....
  - molecules
  - tissues
  - matter
  - water
- A drop of pond water ..... suffice to let the single – celled organisms multiply.
  - is
  - will
  - could have
  - can have
- The simplest form of asexual reproduction is ..... and occurs chiefly among the.....
  - budding – protests
  - fission – protests
  - budding – hydras and yeasts
  - fission – hydras and yeasts
- Which group of animals have life cycles similar to those of plants?
  - coelenterates
  - bacteria
  - mammals
  - yeasts
- Having both ovaries and testes in the same individual is named ..... and can be seen in .....
  - parthenogenesis – honey bees
  - parthenogenesis – parasitic tapeworms
  - hermaphroditism – heney bees
  - hermaphroditism – parasitic tapeworms
- ..... are always minute, motile with virtually no reserve of nutrient substance.
  - egg cells
  - Yolk droplets
  - Spermatozoa
  - Animal cells



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کُد سری سؤال: یک (۱)      استفاده از: ..      مجاز است.      منبع: ..

20. Hard working geneticists ..... give clues as to the nature and structure of the genes themselves.  
a. were able to      b. could able to      c. succeeded in      d. was able to
21. The carbon dioxide required for the photosynthetic process diffuses into the plant by way of.....  
a. chloroplast      b. stomata      c. root      d. mitochondria
22. By looking at the chemical structure we call chlorophyll a.....  
a. oxygen porphyrin      b. hydrogen porphyrin  
c. iron porphyrin      d. magnesium porphyrin
23. Which compounds provide the energy for dark reactions?  
a. ATP - NADH      b. ADP - NADPH      c. ATP - NADPH      d. ADP - NADH
24. The material within the chloroplast and lying between the grana is called the .....  
a. stomata      b. stroma      c. lamellae      d. chlorophyll
25. The opposing nature of the processes of respiration and photosynthesis ..... Discovered by Priestly.  
a. had been      b. had was      c. had      d. been
26. Astenothermic organism is one which will tolerate only ..... variations in .....  
a. wide - salinity      b. narrow - salinity  
c. wide - temperature      d. narrow - temperature
27. The life in the desert is relatively .....  
a. sparse      b. remarkable      c. dense      d. compact
28. The habitat is the organism's ..... And the ecologic niche is the organism's.....  
a. profession - address      b. function - address  
c. address - profession      d. profession - function
29. The ..... that eat the plant eaters are considered as secondary consumers.  
a. herbivores      b. carnivores      c. phytoplanktons      d. algae
30. Any physical ..... such as temperature ..... of importance in ecology.  
a. factor - is      b. factor - are      c. factors - is      d. factor - can

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منبع: ..

مجاز است.

استفاده از: ..

کُد سری سؤال: یک (۱)

### سوالات تشریحی

1. Translate the following paragraph from English into Persian.

۱. پاراگراف زیر را از انگلیسی به فارسی ترجمه کنید. (۱/۳ نمره)

Some of the protozoa, such as paramecia, have a complicated process of sexual reproduction in which two diploid individuals come together, fuse on their oral surface, and exchange nuclear material. The original micronucleus of each divides meiotically. And three of the four nuclei degenerate. The remaining haploid nucleus migrates across the cytoplasmic bridge to the other animal and fuses with one of its haploid nuclei.

۲. برای جملات صحیح علامت T و برای جملات غلط F قرار دهید. (۱/۳ نمره)

- Nucleus is the smallest representative bit that shows all the characteristics of living cells.
- Most of the species in the phylum protozoa do not form colonies.
- The eggs with thin shells have been produced by geneticists.
- The chemical compound that is essential to the work of the chloroplasts is ferredoxin.

3. Define the following biological terms in English.

۳. اصطلاحات زیستی زیر را به انگلیسی تعریف کنید. (۱/۳ نمره)

- In vitro
- Recessive
- ATP
- Biotic

4. Give one synonym, equivalent, for each word.

۴. یک مترادف انگلیسی برای هر کدام از لغات زیر بنویسید. (برای هر لغت ذکر یک مترادف یا هم معنی کافی است).

(۱/۳ نمره)

- liberate
- Constitute
- Require
- Tolerate

5. Write a short paragraph in English describing catalyst in the photosynthetic process.

۵. در یک پاراگراف کوتاه به زبان انگلیسی نقش آنزیم‌ها در واکنش‌های فتوسنتزی را بنویسید. (۱/۳ نمره)