

Item1



Which of the following databases does provide informations about proteins?

2.5 Punkte

Yes

No

Peq data bank

EMBL data bank

NCBI data bank

PDB (protein data bank)

KEGG data bank

Item2



Which one of the following statements about amino acids is correct?

3 Punkte

- Amino acids in proteins are mainly in the D-configuration.
- Twenty-four amino acids are commonly used in protein synthesis.
- Amino acids are classified according to the structures and properties of their side chains.
- Amino acids are uncharged at neutral pH.

Item3



Which of the following form a part of the endomembrane system? Please select all that apply.

2 Punkte

Yes

No

golgi apparatus

outer hydrogenosome membrane

outer chloroplast membrane

lysosomal membrane

Item4



Are these hormone classes belonging to the endocrinic system?

1.5 Punkte

Yes

No

metals

steroids

peptides and proteins

Item5

☰ Which of the following is **not** a characteristic of prokaryotes?

2 Punkte

Yes

No

cell wall

cell membrane

endoplasmatic reticulum

DNA

Item6



Imprinting (learning behaviour) is ...

1.5 Punkte

Yes

No

learning by experience.

irreversible.

independent from key stimuli.

Item7



During the semiconservative DNA replication, ...

3 Punkte

- polymerization is catalyzed by an RNA polymerase.
- polymerization is catalyzed by a double helix enzyme.
- the original double helix remains intact and a new double helix is formed.
- the strands of the double helix separate and form matrices for new strands.

Item8



A man of blood type A is married to a woman of blood type B. Their child has blood group O.
Assign the specified genotypes to both parent individuals and the child. What other genotypes could other children of this couple have?

2 Punkte

Select a value ▼

child

Select a value ▼

other possible genotypes

Select a value ▼

man

Select a value ▼

woman

Item9



Which statement about eukaryotic chromosomes does **not** apply?

2 Punkte

- They sometimes consist of a single chromatid.
- They're all proteins.
- They usually have a single centromere.
- They sometimes consist of two chromatids.
- During the metaphase they can be seen in the light microscope.

Item10



Which one of the following structures is expected in a bacterial cellm?

2 Punkte

- golgi Apparatus
- endoplasmatic reticulum
- nucleus
- plasma membrane