

MIDTERM EXAMINATION

Spring 2017

BIO201 - Cell Biology

Question No: 1 (Marks: 1) - Please choose one

How many covalent bond a Carbon atom can form

- ▶ 1
- ▶ 2
- ▶ 3

Selected answer 4

Question No: 2 (Marks: 1) - Please choose one

Factor that permanently inhibit enzyme activity

Selected answer Irreversible inhibitor

- ▶ Reversible inhibitor
- ▶ Competitive inhibitor
- ▶ Non-competitive inhibitor

Question No: 3 (Marks: 1) - Please choose one

Cellular membranes act as a

- ▶ Barriers
- ▶ Receptors
- ▶ Interactive

Selected answer All

Question No: 4 (Marks: 1) - Please choose one

Starch and glycogen is stored form of glucose in ----- while cellulose is stored glucose form in -----

- ▶ Grass and elephants

Selected answer Animal and plants

- ▶ plants and animals
- ▶ plants and herbs

Question No: 5 (Marks: 1) - Please choose one

The difference between two types of sugars in nucleic acid structure is

✓ ▶ ribose sugar do not have OH group at carbon no. 2

- ▶ deoxyribose sugar have OH group at carbon no.2

Selected answer ribose sugar have OH group at carbon no. 2

- ▶ deoxyribose sugar do not have OH group at carbon no.8

Question No: 6 (Marks: 1) - Please choose one

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If one gene prevent the expression of other gene

▶ Pleiotropy

Selected answer Epistasis

▶ Synapse

▶ Tetrad

Question No: 7 (Marks: 1) - Please choose one

Example of variable expressivity

▶ Dementia

Selected answer Huntington disease

▶ Alzheimer disease

▶ Pancreatic necrosis

Question No: 8 (Marks: 1) - Please choose one

Simian crease is a

▶ Single palmer fold

▶ Double palmer fold

Triple palmer fold

▶ Four palmer fold

Question No: 9 (Marks: 1) - Please choose one

DNA is the main heredity molecule that is transferred from one generation to another

▶ Hershey and Chase experiment

▶ Fredrick Griffith experiment

Macleod and McCarty experiment

▶ Mendel experiments

Question No: 10 (Marks: 1) - Please choose one

Enzymes that can cut DNA at a specific site

▶ Fragment length polymerase

Restriction endonucleases

▶ Ligase

▶ Primase

Question No: 11 (Marks: 1) - Please choose one

Cytoskeleton is composed of -----

Microfilaments, microtubules and intermediates filaments

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- ▶ Microsatellite, microtubules and intermediates filaments
- ▶ Microfilaments, microbes and intermediates filaments
- ▶ Microfilaments, microtubules and internal filaments

Question No: 12 (Marks: 1) - Please choose one

The histone protein responsible for clamping around the DNA is

- ▶ H2
- ▶ H9
- ▶ H3
- ▶ **H1**

Question No: 13 (Marks: 1) - Please choose one

The number of appearance of chromosomes in the nucleus of a eukaryotic cell is called

- ▶ **Karyotype**
- ▶ Prototype
- ▶ Genetic makeup
- ▶ Genome

Question No: 14 (Marks: 1) - Please choose one

An observable feature in the subject of genetics is called

- ▶ trait
- ▶ character
- ▶ phenotype
- ▶ **all**

Question No: 15 (Marks: 1) - Please choose one

Okazaki fragments are joined by

- ▶ **Ligase**
- ▶ Gyrase
- ▶ Helicase
- ▶ Primase

Question No: 16 (Marks: 1) - Please choose one

Enzyme used in PCR process

Thermus hydrophila

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- ▶ *Thermus punctata*
- ▶ *Thermus aquaticus*
- ▶ *Thermus fario*

Question No: 17 (Marks: 1) - Please choose one

Charge on DNA is

- ▶ Positive
- ▶ Negative
- ▶ Neutral
- ▶ None

Question No: 18 (Marks: 1) - Please choose one

Which of the following stabilizes cell shape

- ▶ DNA
- ▶ RNA
- ▶ Actin
- ▶ Myosin

Question No: 19 (Marks: 1) - Please choose one

.....energy is the energy of motion

- ▶ Kinetic
- ▶ Potential
- ▶ Chemical
- ▶ Atomic

Question No: 20 (Marks: 1) - Please choose one

Golgi apparatus is the site where protein are processed for all except

- ▶ dilation
- ▶ sorting
- ▶ modified
- ▶ enriched

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