Dr. PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA SEMESTER END THEORY EXAMINATION

B.Sc. (Hons.) Horticulture

: 1 Academic Year Semester I(New) Term : 2020-21

BIO-111 Course No. Title : Introductory Biology

Credits 2(1+1)

Day & 13/07/2021, Tuesday Time : 12.00-1.00

Total Marks : 40 **Date**

Note: 1) Solve ANY FOUR questions from SECTION-A

- 2) Solve ANY SIX questions from SECTION-B
- 3) ALL questions from SECTION-C are compulsory
- 4) Send the PDF file of answer sheet to the email id of respective course teacher

SECTION-A

(Write the answers in 4-5 sentences only. Each question carries 4 marks)

- Q. 1 What are the different types of seed germination? Explain any one with suitable examples.
- Q. 2 Define respiration and explain the processes of glycolysis.
- Q. 3 What is binomial nomenclature? Explain it with suitable example.
- Q. 4 Define double fertilization and give its significance.
- Q. 5 Differentiate between Plant cell and Animal cell

SECTION-B

(Write the answers in one sentence only. Each question carries 2 marks)

(Answer in one sentence/Do as directed/Define etc.) Q. 6

Define the following terms.

- a)Taxonomy
- b)Cell
- c)Growth
- d)Photosynthesis
- e) Allele
- f)Biotechnology
- g)Species

SECTION-C

(Choose the correct option. Each question carry 1 mark)

- 1) In RNA thymine is replaced by 0.7
 - a) **Thymine**

b) Cytosine

c) Uracil

- d) Guanine
- 2) Which of the following cell organelles is related with genetic engineering?
- a) Mitochondria

Plasmids b)

c) Golgi bodies d) Lysosomes

- 3) Reticulate venation is the characteristics feature of
- a) Dicot

Bryophytes b)

Gymnosperms

d) Monocot

- 4) Which of the following plant kingdom is called amphibians?
- Pteridophyta a)

b) Thallophyta

Bryophyta c)

d) Tracheophyta

5) The genetic material of prokaryotic cells is called			
a)	Nucleus	b)	Nucleolus
c)	Nucleoid	d)	Centrosome
6) In which of the following stages, chromosomes are arranged at equatorial plate?			
a)	Metaphase	b)	Telophase
c)	Anaphase	d)	Prophase
7) End product of glycolysis is			
a)	Acetly CoA	b)	Pyruvic acid
c)	Glucose1 phosphate	d)	Fructose
8) Typical embryo sac of angiosperms is			
a)	Tetranucleated	b)	Eight nucleated and seven celled
c)	Binucleated and seven celled	d)	Tetranucleated and seven celled
9) According to binomial nomenclature, two words used for naming a plant or animal are.			
a)	Species and genus	b)	Genus and order
c)	Genus and family	d)	Species and family
10) In cereal grain single cotyledon is represented by			
a)	Coleoptile	b)	Coleorrhiza
c)	Scutellum	d)	Prophyll
11) First vascular land plant belongs to which group.			
a)	Bryophyta	b)	Thallophyta
c)	Pteridophyta	d)	Spermatophyta
12) From which of the following algae, agar is commercially extracted?			
a)	Fucus	b)	Sargassum
c)	Chlorella	d)	Gelidium
