

PRN. No.		
Seat No.	Student's Signature	Supervisor's Sign

SHIVAJI UNIVERSITY, KOLHAPUR

B.Sc Part I (Sem II)

Examination Oct/Nov 2020

Subject: Zoology Paper III

(Cell Biology and Evolutionary Biology)

Subject Code: 72846

Day & Date: Saturday, 17/04/2021

Time: 2:30PM to 3:30 PM

Marks Obtained	
Max.Marks	50
Examiner's Signature	

Instructions: 1.All questions are compulsory

2. Each question carries 2 marks

3. Write the correct code of answer (A,B,C or D) in the box provided

In front of each question.

Q.1 Which of the following appear L shaped and have two unequal arms.

A. Metacentric B. Acrocentric C. Sub metacentric D. Telocentric

Q.2 Radioactive carbon ^{14}C decays into----

A. Nitrogen B. Cobalt C. Calcium D. Uranium

Q.3 Each chromosome consist of two symmetrical spirally coiled and filamentous structure called as -----

A. Telomere B. Chromomeres C. Chromatids D. Centromeres

Q.4 In igneous rock generally which one of the following is not found?—

A. Strontium B. Uranium C. Potassium D. Radioactive carbon

Q.5----- is the basic structural and functional unit of all living organisms.

A. Tissue B. Organ C. Cell D. Bone

Q.6 The theory of Natural selection for organic evolution putforth by----

A.Darwin B.Lamarck C.Mendel D.De vries

Q.7 ----- are two units of measurement of cell sizes.

A.Milligram and Microgram B. Microgram and Kilogram

C. Micron and Angstrom D. Meter and Kilometer

Q.8 Asteroid impact theory for K-T mass extinction is put forward by-----

A. Alvarez B.Mendel C. Darwin D.Wegner

Q.9. Which of the following organelle shows extracellular digestion?.

A. Mitochondria B. Nucleus C.Endoplasmic reticulum D.Lysosome

Q.10 Which of the following theories explain the origin of life----

A.Theory of special creation B.Theory of Panspermia

C Theory of Chemical evolution D.All of these

Q.11 ----- organelle play important role in the formation of acrosome during spermiogenesis.

A. Nucleus B.Golgi bodies C. Mitochondria D. Endoplasmic reticulum

Q.12 Spark discharge apparatus was used to conduct experiment of-----

A.Darwin B.Mendel C.Oparin-Haldane D.Lamarck

Q.13 The fluid mosaic model of plasma membrane was proposed by ----

A.Robert Hook B. Mendel C. Cook D. Singer and Nicolson

Q.14 Which of the following represent example of Lamarckism---

A.Evbolution of Giraffe B.Evolution of Snakes

C.Vestigeal organs in Human D.All of these

Q.15 ----- are referred as power house of the cell.

A. Lysosome B.Mitochondria C. Golgi bodies D. Nucleus

Q.16 Which of the following points were putforth by Charles Darwin in his theory of "Natural selection"---

A.Struggle for existence B.Prodigility of Production

C.Survival of the fittest D.All of these

Q.17 ----- is called as suicide bag.

A.Lysosome B.Mitochondria C.Chloroplast D.Golgi bodies

Q.18 The place “Chicxulub” is famous for-----

A.Mountain B. Crater C. River D.Valley

Q.19 Which of the following organelle is referred as heart of the cell?

A.Nucleus B.Mitochondria C.Golgi bodies D.Ribosomes

Q.20 The dinosaurs ruled the earth during period-----

A.Cambrian B.Permian C.Jurassic D.Devonian

Q.21 Condition in which the chromosomes set are present in multiples of n is called as -----

A.Aneuploidy B.Polyploidy C.Triploidy D.Tetraploidy

Q.22 “Mutation theory” was putforth by-----

A.Darwin B.Hugo De Vries C.Lamarck D.Miller

Q.23 ----- is the formation of one or more new species from an existing species

A.Adaptation B.Evolution C.Speciation D.Specification

Q.24 ----- is main center of RNA synthesis.

A.Mitochondris B.Nucleolus C.Centrosome D.Cytoplasm

Q.25 ----- is the connecting link between reptiles and Aves

A.Wooly mammoth B.Horse C.Archaeopteryx D.Giraffe
