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Question 1

– is the type of mutation that can

speciation?

- A. Point mutation
- B. Chromosomal aberration
- C. Gene mutation
- D. Spontaneous mutation

lead to abrupt

ANSWER: B

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The screenshot shows a mobile application interface. At the top, it says "Basic Principle Of Biology". Below that, there's a user profile for "Mare Barakat" with a green "Active" status and a "Live Subscription" button. In the center, it displays "BIO 101: 428 Practice Questions" and a timer showing "176:33". A large, stylized watermark reading "SOLAR POWERED" is overlaid across the screen. Below the timer, it says "Question 2" and asks "A diploid cell has -- number of chromosomes as the haploid cell". The options are: A. 2, B. 4, C. 6, D. 8.

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ANSWER: A

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Question 3

A light microscope

referred to as a?

- A. Electron microscope
- B. Compound microscope
- C. Scanning problem
- D. Optical microscope

ANSWER: D

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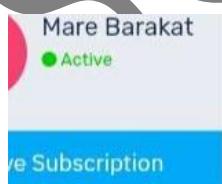
Question 4

A megasporangium is always

- A. Haploidiploid
- B. Haploid
- C. Diploid
- D. None of the aforementioned

ANSWER: C

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Question 5

A person with low red blood cell in his/her body is said to have

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A.
Leukemia
B. Uremia
C. Euphemia
D. Anaemia

ANSWER: A

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The screenshot shows a mobile application interface. At the top, there's a black bar with the text "Basic Principle Of Biology" and "Practice Questions" on the right, along with a timer showing "176:26". Below this is a user profile section with a circular icon, the name "Mare Barakat", and the status "Active". A blue bar at the bottom indicates a "Free Subscription". The main content area has a dark background with a hand holding a microscope objective lens. It displays the text "BIO 101 : 428" and "Timer". Below that is "Question 6" followed by a question: "A stereo microscope is used to?". Four multiple-choice options are listed: A. Observe the surface of an object, B. View cell contents, C. Observe live cells, D. Observe cell cycle.

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Question 7

A trait that overpowers and hides another trait is called

- A. Recessive traits
- B. Overpowering trait
- C. Dominant
- D. Complex trait

ANSWER: C

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Question 8

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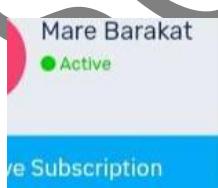
Basic Principle Of Biology

A typical chromosome with
twoequal arms is called -
chromosome

- A. Giant
- B. Telocentric
- C. Metacentric
- D. Pericentric

ANSWER: C

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Question 9

Actively dividing cells are
said to be

- A. Erratic
- B. Hypergenic

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C. Hyperkinetic D. Meristematic

E.
Spontaneou
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ANSWER: D

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Question 10

After a normal mitotic division

..... number of daughters are formed

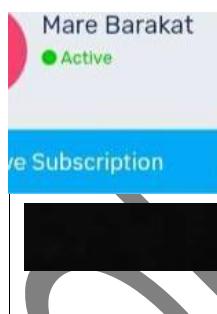
A. 2
B. 4
C. 6
D. 8

ANSWER: A

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Question 11

Albumin is a _

- A. Globular protein
- B. fibrous protein
- C. metalloprotein D.
- glycoprotein

ANSWER: A

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has ribosomes

Question 12

All the following sites
except?

- A. Mitochondria
- B. Chloroplast
- C. Nucleus D. Cytoplasm

ANSWER: C

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Question 13

All the followings are advantages that the Coelomate have over Acoelomate EXCEPT

- A. Reproductive and digestive organs can evolve more complex shapes and functions.
- B. All of the above
- C. Genetic flow
- D. Natural selection

ANSWER: B

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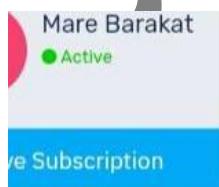
Question 14

Allele frequencies change as a result
of-----

- A. Genetic drift
- B. All of the above
- C. Genetic flow D. Natural selection

ANSWER: B

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Question 15

Amino acid is an organic molecule is all that made up of the following except

- A. Carbon
- B. A carboxyl group
- C. Hydrogen atom D. A phosphate group

ANSWER: D

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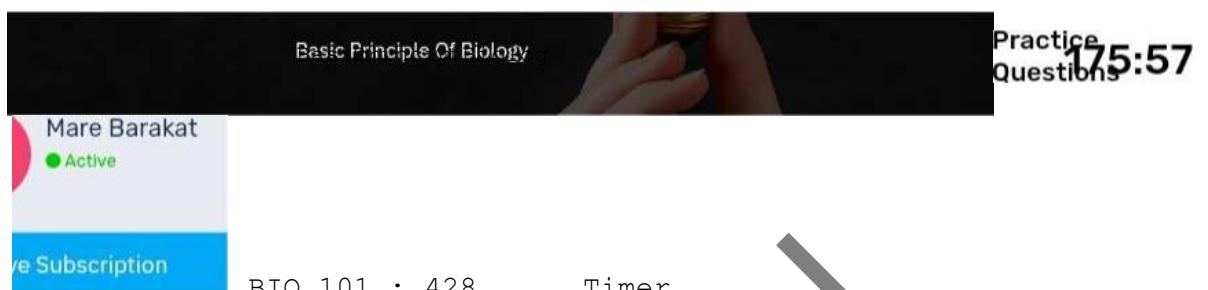
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Question 16

An individual's collection of genes is called

- A. Phenotype
- B. Genotype
- C. Traits
- D. None of the choices

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ANSWER: B

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Question 17

Asexual reproduction process is

carried out by.....

- A. Birds
- B. Humans
- C. Hydras D. Leopards

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ANSWER: C

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Question 18At the stage of
mitosis, thechromosomes start to
become less distinct as
they start to uncoil.

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- A. Anaphase
- B. Metaphase
- C. Prophase
- D. Telophase

ANSWER: D

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Question 19

At the centre of a matured embryo sac is he..... nuclei

- A. Antipodal
- B. Ovum
- C. Polar
- D. Synergid

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ANSWER: C

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Question 20

At the end of the process of mega gametogenesis, the matured embryo sac contains.....nuclei

- A. 6
- B. 7
- C. 8
- D. 9

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ANSWER: C

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Question 21

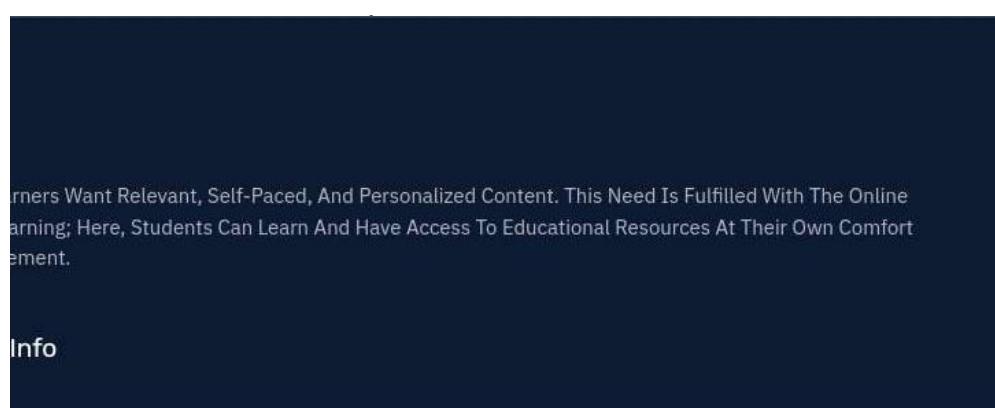
Both plant and animal cells contain

- A. Cell membrane, mitochondria, plastids, nucleus and cytoplasm
- B. Cell membrane, mitochondria, ribosomes, chloroplast and cytoplasm
- C. Cell membrane, mitochondria, Golgi apparatus, endoplasmic reticulum and cytoplasm
- D. All of the choices

ANSWER: C

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A. Anaphase
B. Chiaphase
C. Metaphase
D. Prophase
E. Telophase

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Question 23

Collagen is a _

- A. Globular protein
- B. fibrous protein
- C. metalloprotein
- D. glycoprotein

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ANSWER: B

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Question 24

Crossing over -----
occurs during

- A. Prophase I
- B. Metaphase I
- C. Prophase II
- D. Metaphase II

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ANSWER: A

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Question 25

Cytokinesis process

immediately after

- A. Gap1 phase
- B. Gap 2
- C. Metaphase D. Telophase

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ANSWER: D

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Question 26

Decondensed chromosomes in

Telophase I condense
back in stage of
meiosis

- A. II
B. Metaphase II
C. Prophase II D. Telophase II

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ANSWER: C

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Question 27

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DNA pieces are linked byto form chromatid

- A. Centromeres
- B. Centrosomes
- C. Centrioles
- D. Chromatins

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ANSWER: A

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Question 28

Down's syndrome is caused due to

- A. Monosomy of 21st chromosome
- B. Disomy of 21st chromosome
- C. Trisomy of 21st chromosome
- D. An extra X chromosome in female

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ANSWER: C

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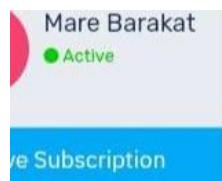
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Question 29

During cell division, the S phase is

followed by

- A.G1
- B.G2
- C.Prophase
- D.Metaphase

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ANSWER: B

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Question 30

Evolutionary trend in
animal
ends with

symmetry

- A. Radial symmetry
- B. Asymmetry
- C. Lateral symmetry
- D. Bilateral symmetry

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ANSWER: D

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Question 31

Food substances, water
and mineral salts are stored in the

A. Cytoplasm
B. Cell membrane
C. Ribosomes
D. Nucleolus
E. Vacuole

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ANSWER: E

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Question 32

Gametes cells are usually

- A. Aneuploid
- B. Diploid
- C. Haploid D. Triploid

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ANSWER: C

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Question 33

Gametogenesis is a process whereby living organisms set aside half of their genome in readiness for sexual reproduction. This process is aided by what type of cell division?

- A. Anaphase
- B. Telophase
- C. Mitosis
- D. Meiosis

ANSWER: D

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Question 34

Gap during (G1) the phase is stage - that occurs

- A. Anaphase
- B. Interphase
- C. Metaphase
- D. Prophase

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ANSWER: B

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Question 35

Genes are located in

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A. Chromatin



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- B. DNA
- C. Histones
- D. RNA
- E. Tubulins

ANSWER: B

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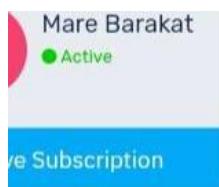
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Question 36

Given an organism with haploid chromosome number of 32 ($n=32$). What will be the somatic chromosome number in this same organism?

- A. $n = 32$
- B. $n=24$
- C. $2n = 64$
- D. $2n = 32$

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ANSWER: C

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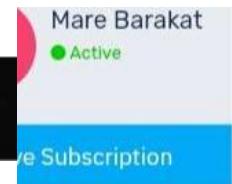
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Question 37

Growth is measured as a unit
of size
per

- A. Age
- B. Time
- C. Length D. Width

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ANSWER: B

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Questü5 02

Question

38

Haemoglobin is a

- A. Globular protein
- B. fibrous protein
- C. metalloprotein D. glycoprotein

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ANSWER: A

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Question 39

How many Nucleotide bases occur
in
a Nucleic acid

- A. Five
- B. Three
- C. Four
- D. Six

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ANSWER: C

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Question 40

Identify the non-membranous organelle from the following

- A. Ribosome
- B. Endoplasmic reticulum
- C. Nucleus
- D. Chloroplast

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Question 41

Identify the odd one o of
the

following:

- A. Mation
- B. Genetic drift
- C. Gene migration
- D. Speciation

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ANSWER: B

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In a somatic cell cycle
there are two
major phases

- A. Anaphase and metaphase
- B. Anaphase and mitosis
- C. Interphase and metaphase
- D. Interphase and mitosis

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ANSWER: D

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Question 43

In relation to
natural selection,
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- B. M
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- C. P
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- D. P
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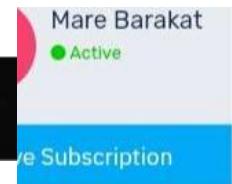
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Question 44

Mitochondria in human sperm
cell

are occupied at

- A. Mid piece
- B. Sperm tail
- C. Sperm head
- D. No mitochondria in the sperms

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ANSWER: A

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Question 45

Mitosis in plant cell
occurs at the

-
- A. Meristems
 - B. Xylem
 - C. Epidermis
 - D. Hypodermis

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ANSWER: A

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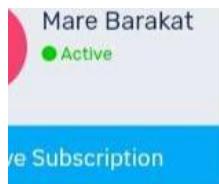
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Question 46

Mycology is the study
of

- A. B
acte
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- B. V
irus
- C. F
ungi
- D. M
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ANSWER: C

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Quest

Question 47

Naturally occurring gene or point mutation is termed what?

- A. Mutation of gene
- B. Chromosomal aberration
- C. Spontaneous point mutation
- D. Reverse mutation

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ANSWER: C

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PractiQuestü4:18

Question 48

Naturally occurring
gene or point mation
is termed what?

- A. Mation of gene
- B. Chromosomal aberration
- C. Spontaneous point mation
- D. Reverse mation

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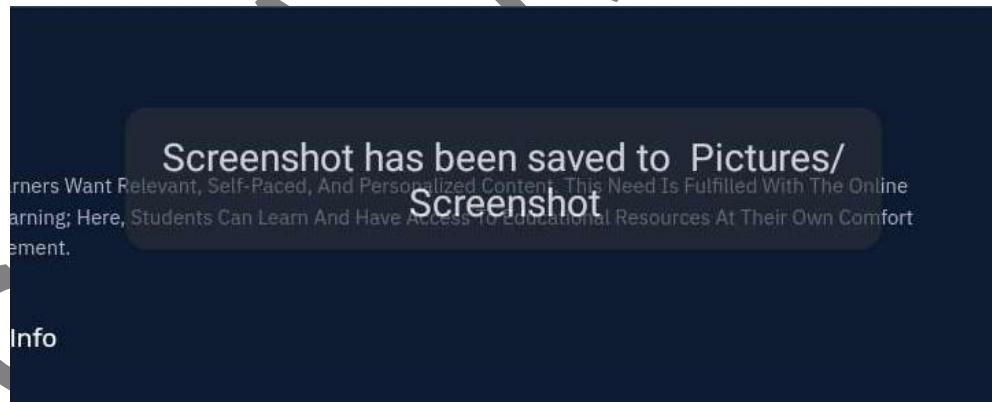
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ANSWER: C

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- A. Enzymes,
Anaphase

Question 49

Nuclear membrane
envelope are broken
down by - at..

- B. Enzymes,
Prophase
- C. Hormones,
Anaphase
- D. Hormones,
Prophase
- E. None of
the above

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ANSWER:

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Question 50

On the microscope stage, what is used to hold the glass slide in place and prevent it from moving

- B. Stage clip
- C. Fine adjustment knob
- D. Condenser

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ANSWER: B

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Question 51

One of the significance of meiosis is

- A. Genetic stability
- B. Growth
- C. Genetic variation
- D. Gamete formation

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ANSWER: D

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Question 52 Practü4:06

Pick the correct order of Quest complexity

in life

the Organization of

- A. Organisms, Systems, Tissues, Cells, Organs
- B. Organisms, Systems, Organs, Tissues, Cells
- C. Organ, Tissues, Systems, Organism, Cells
- D. Organisms, Organs, Tissues, Systems, Cells
- E. None of the choices

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ANSWER: B

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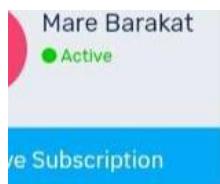
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Question 53

Pick the Non-Living
inclusions in a cell

- B. Cytosome
- C. Golgi body
- D. Centrosome
- E. None of the above choices

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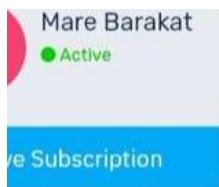
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Question 54

Pick the odd one o

- A. Nucleoplasm
- B. Nucleolus
- C. Chromosome
- D. Nuclear arm E. Nucleus

ANSWER: E

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Question 55

Plant cell wall mainly composed of

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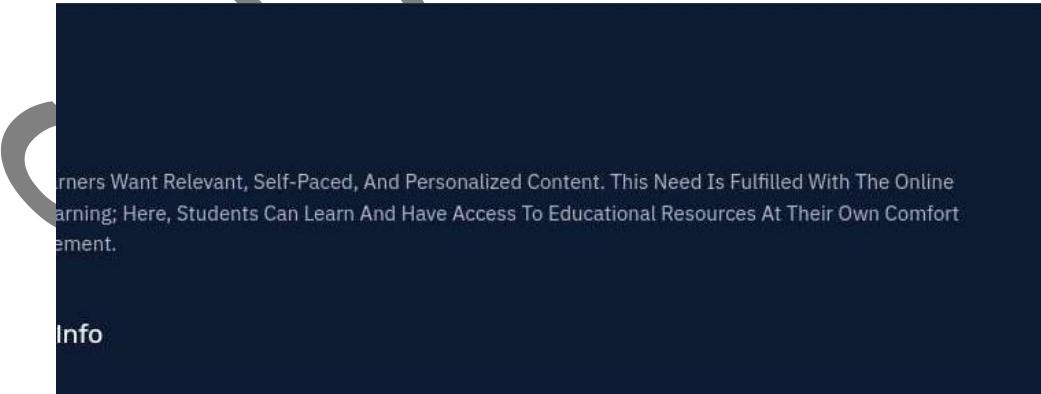


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- A. Cellulose
- B. Starch
- C. Protein D. Lipid

ANSWER: A

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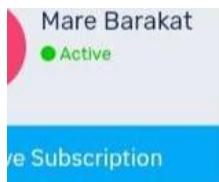
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Question 56

Plastids are

- A. Animals and Plants
- B. Fungi and animals
- C. Animals, Bacterium and Fungi
- D. None of these

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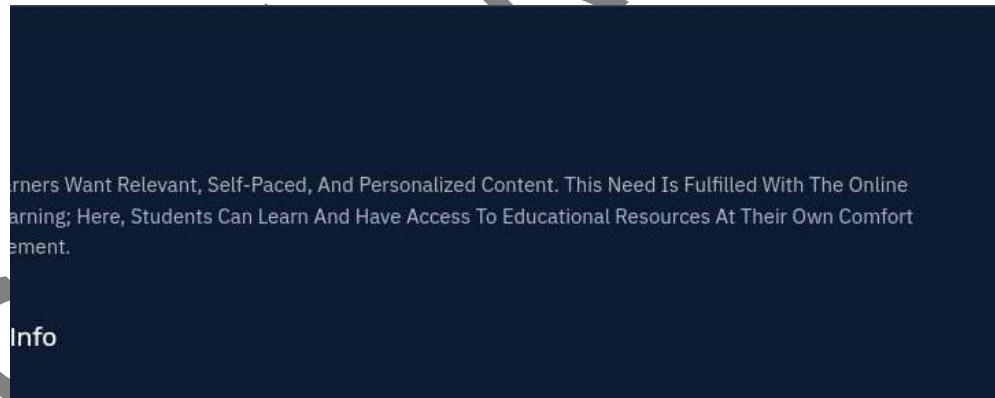
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ANSWER: C

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ANSWER: B

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Question 58.....
Reproduction is a
processA.
Chemical

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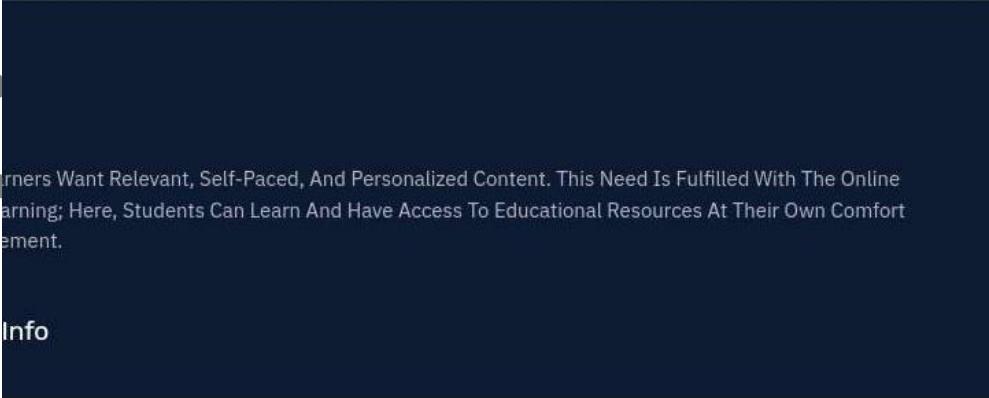
Physical

C. Biological

D. Physicochemical

ANSWER: C

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Question 59

Ribosomes are made of

- _____
- A. RNA only
 - B. RNA and Proteins
 - C. RNA, DNA and Proteins
 - D. Nucleic acids, Proteins and Lipids

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Question 60

Ribosomes are present in

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A. Eukaryotes only
B. Eukaryotes and Prokaryotes
C.
D. Eukaryotes, Prokaryotes and Viruses

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ANSWER: B

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Question 61

Set of genes for any traits in organisms are called

- A. Alleles
- B. Characters
- C. Gametes
- D. Syngens E. Types

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ANSWER: D

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Question 62

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Sexual reproducing organisms have

different sets of genes for every trait, these are called

- A. Characters
- B. Traits
- C. Allergens
- D. Alleles

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ANSWER: D

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Question 63

Sexual reproducing organisms have

different sets of genes for every trait, these are called

- A. Characters
- B. Traits
- C. Allergens
- D. Alleles

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ANSWER: D

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Sister chromatids split apart at the

A. Centroid
B. Centromere
C. Centrosome
D. Centronesis

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ANSWER: B

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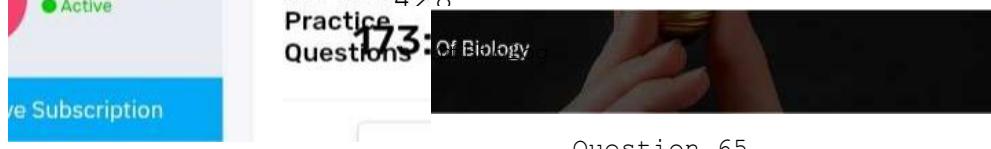
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Question 65

Smooth endoplasmic reticulum is the site of

A. protein synthesis
B. Carbohydrate synthesis
C. Amino acid synthesis D. Lipid synthesis



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ANSWER: D

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Question

66

Speciation
is

- A. The existence of a distinct population
- B. Caused by accumulation of environmental factors
- C. The process whereby single species become two or more species
- D. A means of altering gene frequencies in a population

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ANSWER: C

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Question 67

Term used in Botany
for development of
embryo or seed without
fertilization
occurring is

- A. Aggregation
- B. Agitation
- C. Apomixis
- D. Embryogenesis
- E. All of the above

ANSWER: C

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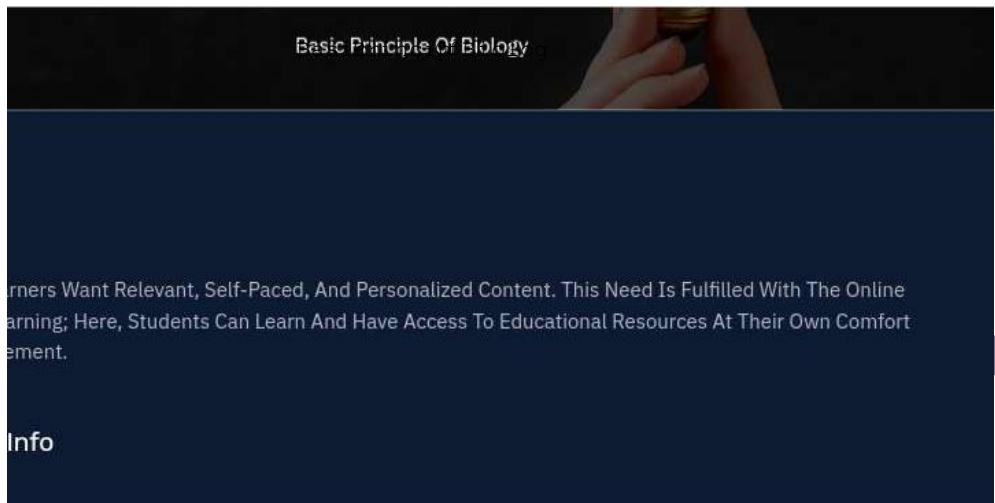
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Question 68

The "Brain of the Cell" is -----

- A. Cell membrane
- B. Nucleus
- C. Cytoplasm
- D. Ribosomes
- E. None of the above

ANSWER: B

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A user profile card for 'Mare Barakat' showing an active status and a 'Live Subscription' button.

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Question 69

plant is made

The androecium of the
up of all the following
except

- A. Stamen
- B. Ovule
- C. Filament
- D. anthers

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Question 70

The cell cycle is a series of events involving the following

- A. Cell development and division
- B. Cell elongation and growth
- C. Cell growth and division
- D. Cell division and shrinkage

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ANSWER: C

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Question 71

The cell moves from the Interphase into the Cell Division stage when thephase is ended

- B. G2
- C. M1
- E. S

ANSWER: E

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Question 72

The cell theory is not applicable to

- A. Bacteria
- C. Virus
- D. Fungi

ANSWER: C

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Question 73
The evolutionary road leading to humans transcends from all the following except?



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- A. Hand modification that increased manipulative skills
- B. Less reliance on smell, more on vision
- C. Shift from omnivorous to specialized eating habits D. Brain expansion and reorganisation

ANSWER: C

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Question 74

The exchange of genetic material between the chromatids is called



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- A. Bivalent
- B. Crossing over
- C. Chiasma
- D. All of the above

ANSWER: C

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Question 75

The fertilization of an individual ovum by the sperm of another individual is known as

- A. Allogamy
- B. Allogeny
- C. Aogamy
- D. Aogeny
- E. Syngamy

ANSWER: A

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Question 76

The fertilization of an ovum from one individual

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with the spermatozoa of
another is known as

- A. Allogamy
- B. Aomogamy
- C. Cleistogamy
- D. Geitogamy

ANSWER: A

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Questions

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Question 77

The first evidence of
life on earth dates
back to

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- A. 3.5 billion years ago
- B. 300 million years ago
- C. 25 million years ago
- D. 4.5 billion years ago

ANSWER: A

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Question 78

The following are examples of variation
except?

- A. Skin colour in man
- B. Gender
- C. Ability to roll tongue
- D. ABO blood group

ANSWER: D

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Questü2:45

Question 79

The formation of sex
cells in animals is
called-----

- A. Morphogenesis
- B. Ontogenesis
- C. Embryogenesis
- D. Gametogenesis

ANSWER: D

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Questü2:**42**

Question 80

The haploid number of chromosome in man is

- A.
46
B.
26
C. 43
D.
23

ANSWER: D

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Question 81

The information for protein synthesis is stored in

- A. Amino acids
- B. Fats
- C. Glucose
- D. Nucleic acid

ANSWER: D

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Questü2: 39

Question 82

The irreversible increase
in size and height of
living organisms is termed

-
- A. Growth
 - B. Development
 - C. Gestation D. Maturity

ANSWER: A

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QuestÜ2:37 Practi

Question 83

The key trend in
primate evolution began
in the

- B. Womb
- C. Forest floor
- D. Trees

ANSWER: D

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Question 84

The lack of allele variation in the northern elephant seal population is an example of

- A. Mations
- B. Founders effect
- C. Artificial selection
- D. Bottleneck effect E. Ocrossing

ANSWER: D

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Questü2 34

Question 85 The longest phase in the Cell cycle is

- A. Gap I phase
- B. Gap 2 phase
- C. S-phase
- D. Mitotic

ANSWER: A

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QuesttÜ2:32

Question 86

The main feature of
meiosis is

- A. Cell multiplication
- B. Cell differentiation
- C. Cell enlargement
- D. Cell reduction

ANSWER: D

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Questü2 30

Question 87

The main function of centrioles in cell division includes all except

- A. Formation of bivalents
- B. Movement of chromatids
- C. Formation of asters

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D. None of the above

ANSWER: D

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Question 88

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The main function of centrosome
is

-
- A. Osmoregulation
 - B. Protein synthesis
 - C. Formation of
Spindle fibre
 - D. Secretion

ANSWER: D

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Question 89

The major branches
of biology includes
all except

- A. Botany
- B. zoology
- C. Microbiology
- D. Biochemistry

ANSWER: D



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Question 90

The membrane around the vacuole is called

- A. Cytoplasm
B. Tonoplast C. Amyloplast
D. Elaioplast

ANSWER: B

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Question 91

The Mitochondria functions in all of the following except

- A. Production of energy currency of the cell
- B. Site of cellular respiration
- C. Regulation of cellular metabolism
- D. Protein synthesis

ANSWER: D

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Questü2:22 Practi

Question 92

The mitotic spindle is formed during the

- A. Anaphase
- B. Interphase
- C. Metaphase
- D. Prophase

ANSWER: B

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Question 93

The movement of new genes into a population as a result of migration or hybridization is called

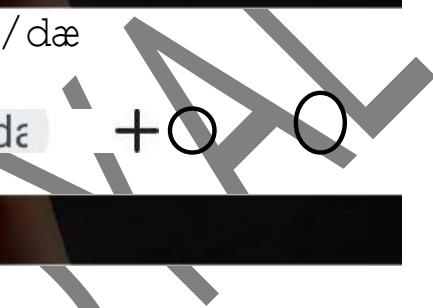
- A. Founder principle
- B. Selection
- C. gene flow
- D. Bottleneck E. adaptation

ANSWER: C

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Question 94

The number of chromosomes per nucleus of the product of meiosis isnumber?

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- A. Somatic
- B. Haploid
- C. Diploid
- D. Double

ANSWER: B

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Practice Questions 172:13 Practi

Question 95

The only source of new alleles is

- A. Mation
- B. Genetic drift
- C. Genetic flow
- D. Natural selection

ANSWER: A

~~SOMATIC~~ ~~HAPLOID~~ ~~DIPLOID~~ ~~NATURAL SELECTION~~



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Question 96

The optical part of the
light microscope includes
all b

- A. Eye Piece
- B. Slide
- C. Ocular
- D. Objective lens
- E. Mirror

ANSWER: B

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Question 97

The organelle responsible for life on this planet is

- A. Mitochondria
- B. Chloroplast
- C. Nucleus
- D. Ribosomes

ANSWER: B

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Question 98

The organelle that is lipid bi-layer in nature is-----

- A. Nucleus
- B. Centriole
- C. Cell membrane D.
Nucleolus
- E. All of the above

ANSWER: C

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Question 99

The pairing of homologous chromosomes during meiosis is called---

- A. Bivalent
- B. Pairing
- C. Crossing over D. Synapsis

ANSWER: B

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Questü2 06

Question 100 The phases of a cell cycle are

- A. Growth an Division
- B. G1 and G2
- C. Interphase and S phase D. Mitosis and Meiosis

ANSWER: A





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QuestionPracti :42

Question 101

The phenotype or an organism is a product of interaction between the organism and?

- A. Genome and chromosome
- B. Chromosome and DNA
- C. Genome and environment
- D. Gene and nucleus

ANSWER: C

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Question 102

The phenotype or an organism is a product of interaction between the organism and.....

- A. Genome and chromosome
- B. Chromosome and DNA
- C. Genome and environment
- D. Gene and nucleus

ANSWER: C

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Questiüg:40 Practi

Question 103

The process in hermaphroditic organisms where the two gametes fused in fertilization come from the same individual is known as

- A. Heterogamy
- B. Oogamy
- C. Allogamy
- D. Geitogamy

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ANSWER: D

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Questü3 : 38

Question 104

The process in plants which leads to formation of the female gametes is known as

- A. Megametogenesis
- B. Microgametogenesis
- C. Gametogenesis D. Spermatogenesis

ANSWER: A

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Questions 171:36 Practi

Question 105

The repeating units in both DNA and RNA are called

- A. Amino acids
- B. Nucleic acid
- C. Nucleotides
- D. Hydrogen bonds

ANSWER: C

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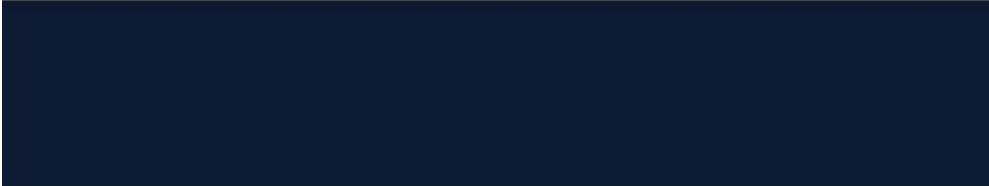
Question 106

The RNA molecule is a

- A. Double stranded molecule
- B. Double helix
- C. Single stranded molecule
- D. None of the choices

ANSWER: C

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Practice Questions **171:33** Practi

Question 107

The semi-permeable organelle that regulates the entry and exit of substances into the cell is called

- A. Ribosomes
- B. Nuclear membrane
- C. Endoplasmic Reticulum
- D. Chromosomes
- E. Cell membrane

ANSWER: E

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Questions **171:32** Practi

Question 108

The sugar that is in the backbone of DNA is called

- A. Deltaglucose
- B. Ribose
- C. Fructose
- D. Deoxyribose

ANSWER: D

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Question 109

The sugar that is the backbone of RNA is

- A. Deoxyribose
- B. Fructose
- C. Ribose
- D. Sucrose

ANSWER: C

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Question 110

The total of all harmful and lethal genes which are present in individuals are called

- A. Genome
- B. Gene pool
- C. Genetic drift
- D. Genetic load

ANSWER: D

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Questitg Practi :28

Question 111

The two knobs used for focusing the image include fine adjustment knob and?

- A. Coarse adjustment knob
- B. Diaphragm
- C. Stage
- D. Objective lens

ANSWER: A



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Practice

Questions

171:26 Practi

Question 112

Theory of inheritance of
the acquired character
was proposed by

- A. Lamark
- B. Darwin
- C. Weinsmann D. Correns

ANSWER: A

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Question 113

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There are number of daughter cells normally produced as a result of mitotic division

- A. 2
- B. 3
- C. 4
- D. 5

ANSWER: C

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Question 114

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This event does not occur
during the prophase

- A. Microtubule extend between centrosomes pushing them apart
- B. Nuclear membrane starts to break by action of enzymes C.
- C. Nucleolus aggregates and solidifies
- D. Golgi and endoplasmic reticulum

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fragment and . disperse
to periphery

ANSWER: C

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Question 115

To obtain total magnification, you should — the magnification of the eyepiece to the objective lens power

- B. Multiply
- C. Divide
- D. Subtract

ANSWER: B

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Question 116

Total magnification is the product of two values: power of eyepiece and power of?

- A. Ocular lens
- B. Objective lens
- C. Illumination
- D. Light source

ANSWER: B

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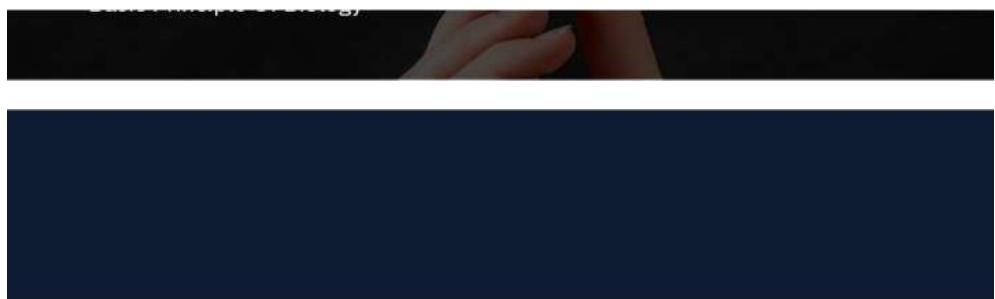
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Question 117

Vicia faba (bean)
hasnumber of
chromosomes in its
diploid state

- A. 18
- B. 16
- C. 14
- D. 12

ANSWER: D

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Question 118

What gas do the leaves of plants take in?

- A. Hydrogen peroxide
- B. Carbon
- C. Carbon Dioxide
- D. Photosynthesis

ANSWER: C

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Question 119

What is
ecology

- A. The global ecosystem
- B. An organisms genetic material
- C. All organisms in a given area
- D. The scientific study of how organisms interact with their environment

ANSWER: D

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Question 120

What is the definition
of a biosphere

- A. The global ecosystem
- B. All organisms in a given area
- C. The scientific study of how organisms interact with their environment
- D. None of the choices

ANSWER: B

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BIO 101 : 428 Timer

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Question 121

What is the definition of a genome

- A. The global ecosystem
- B. An organisms genetic material
- C. All organisms in a given area
- D. The scientific study of how organisms interact with their environment

ANSWER: B

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Question 122

What is the major source
of heritable variation?

- B. Chromosome
- C. Mation
- D. Chemicals

ANSWER: B

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QuestügPracti:**08**

Question 123

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What is the true structure of

DNA

- A. A molecule
- B. A double helix
- C. A strand
- D. A stranded molecule

ANSWER: B

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Practice Questions**171:07**

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Question 124

What is the ultimate
source of genetic
variability

- A. Mation
- B. Migration
- C. Genetic drift
- D. Non-random mating E. Selection

ANSWER: A

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Practi

Questü3 06

Question 125

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What nucleotide base does RNA contain that DNA does not

- A. Thymine
- B. Uracil
- C. Adenine
- D. Cytosine

ANSWER: B

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Questü3 03

Question 126

What type of allele produces its effects only in homozygous individuals

- A. Recessive
- B. Dominant
- C. Incomplete recessive
- D.

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None of the

choices

ANSWER: A

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Question 127

What unique ability
does DNA have because
it is double stranded

- A. It serves as genetic material in all viruses
- B. None of the choices

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- C. It can move around the cells
- D. It can serve as a template for its own copying

ANSWER: D

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Question 128

Which expression represents the frequency of the recessive genotype, using the Hardy-Weinberg principle,

- A. p^2
- B. $2pq$

ANSWER: D

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Practice
Questions

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Question 129

Which of the following
are low power lenses?

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D. None of the choices

ANSWER: A

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Question 130

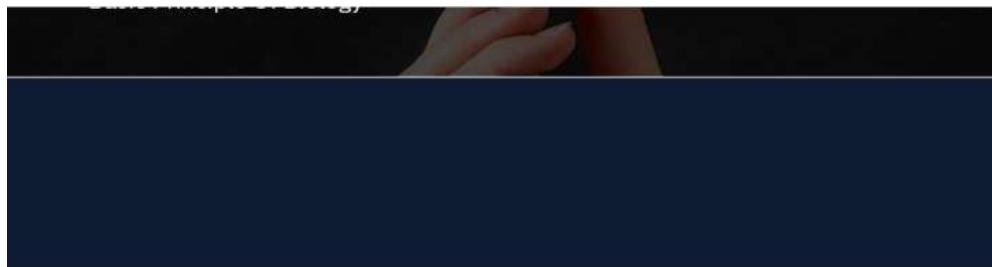
Which of the following cell organelle can be viewed by a light microscope

- A. Ribosome
- B. Endoplasmic reticulum
- C. Golgi body
- D. Mitochondria

ANSWER: D

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Practice
Questions

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Question 131

Which of the following is a double membrane bound organelle

A. Mitochondria

B. Chloroplast

Nucleus

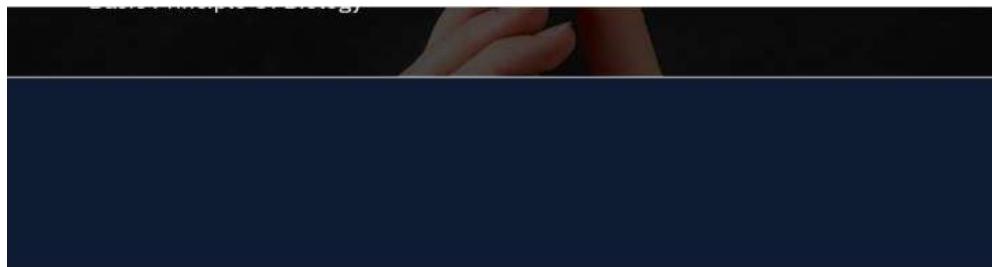
D. All of these

C.

ANSWER: D

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Timer Que:ü9 : 54

Question 132

Which of the following is INCORRECT
abo
Archaeological study

- A. They learn how people used to live
- B. They study human history and Prehistory
- C. It is a sub field of anthropology
- D. Portable remains dug up are called Artefacts
- E. All of the above choices

ANSWER: E

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**Practice
Questions****170:52**

Question 133

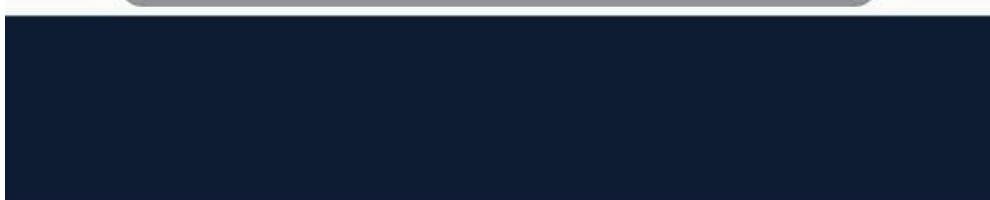
Which of the following is
NOT a trend in primate
evolution

- A. Larger body size
- B. Increasing brain size
- C. Upright standing
- D. Reliance on sense of smell

ANSWER: D

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Practice
Questions 170:50

Question 134

Which of the following is not a trend in primate evolution

- A. Modification of hair growth
- B. Change in overall skeletal structure
- C. Change in dentition
- D. Diet that includes plants and animals

ANSWER: A

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Question 135

Which of the following organelle lack ribosomes

- A. Mitochondrion
- B. Chloroplast
- C. Nucleus D. RER

ANSWER: C



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ti

Question 136

Which of the following statement abo
Mitochondrion is not true

- A. Mitochondria in the cell fuse with one another
- B. In all cells, one mitochondria will be exceptionally larger than others
- C. Large mitochondria in the cell can split into two
- D. Size and shape of mitochondria varies in a cell

ANSWER: B

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Timer Que:ü9 : 45

Question 137

Which of the following statements abo
Cephalization is INCORRECT

- A. It is an evolutionary trend B.



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One end of An organism's body becomes concentrated in Nervous tissues
C. It occurs in all invertebrates D. It helps in the development of a brain

ANSWER: C

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Question 138

Which of the following statements are true

- A. Ribosomal components are coded by DNA
B. Ribosomes are selfreplicating organelles
C. Ribosomes are double membrane bound organelles D. Ribosomes are deoxyribonucleoprotein

ANSWER: A

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Question 139

Which of the following would cause the Hardy-Weinberg principle to be inaccurate?

- A. No random mating
- B. There is no source of new copies of alleles from outside of the population
- C. The size of the population is very large
- D. Absence of natural selection

ANSWER: A

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QuestiüO:41 Practi

Question 140

Which of these is a correct type of mutation

- A.
Transcripti
on
- B.
Polymerase
- C.
Substitution
- D.
Addition

ANSWER: C



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Practice
Questions

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Question 141

Which of these is not a prokaryotic

- A. Bacteriophage
- B. Blue-green Algae
- C. Mucor
- D. Staphylococcus
- E. None of the above choices

ANSWER: C

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Questtüp:**39**

Question 142

Which one of the options
is NOT diploid

- A. Ovum
- B. Ovule C. Megasporocyte D.
- Ovary

ANSWER: A

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[REDACTED]

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QuestÜP:37Practi

Question 143

Which part of the microscope
are objective lenses
attached

- B. Eyepiece
- C. Base D. Nose piece

ANSWER: D

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[REDACTED]





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Practice
Questions

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Question 144

Which part of the microscope should you hold when lifting or moving the microscope?

- A. Eyepiece and body tube
- B. The base and stage
- C. Arm and base
- D. Objectives

ANSWER: C


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**Practice
Questions****170:35**

Question 145

The information for protein synthesis is stored in

- A. Amino acids
- B. Fats
- C. Glucose
- D. Nucleic acid

ANSWER: D

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Practice Questions **170:33**

Question 146

How many Nucleotide bases occur in a Nucleic acid

A. Five

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B. Three

C. Four

D. Six

ANSWER: C

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Question 147

The sugar that is in the backbone
of
DNA is called

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- A. Deltaglucose
- B. Ribose
- C. Fructose D. Deoxyribose

ANSWER: D

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Question 148



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What is the true
structure of DNA

- A. A molecule
- B. A double helix
- C. A strand
- D. A stranded
molecule

ANSWER: B

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Question 149

The sugar that is the backbone of RNA is

- A. Deoxyribose
- B. Fructose
- C. Ribose
- D. Sucrose

ANSWER: C

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**Practice
Questions****170:28**

Question 150

The RNA molecule is a

- A. Double stranded molecule
- B. Double helix
- C. Single stranded molecule
- D. None of the choices

ANSWER: C

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Questüp : 27

Question 151

What unique ability does DNA have because it is double stranded

- A. It serves as genetic material in all viruses
- B. None of the choices
- C. It can move around the cells
- D. It can serve as a template for its own copying

ANSWER: D

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Questüp:26

Question 152

The repeating units in both DNA and RNA are called

- A. Amino acids
- B. Nucleic acid
- C. Nucleotides
- D. Hydrogen bonds

ANSWER: C

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Questü9:24

Question 153

What nucleotide base
does RNA contain that
DNA does not

- A.
Thymine
- B.
Uracil
- C.
Adenine
- D.
Cytosin
- E.

ANSWER: B

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**Practice
Questions** 170:23

Question 154

DNA pieces are linked
by

form chromatid

- A. Centromeres
- B. Centrosomes
- C. Centrioles
- D. Chromatins

ANSWER: A

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Question 155

During cell division, the S phase is followed by

- C. Prophase
- D. Metaphase

ANSWER: B

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Question 156

There are

.....number of
daughter cells normally
produced as a result of
mitotic division

- A. 2
- B. 3
- C. 4
- D. 5

ANSWER: C

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Question 157

At the stage of mitosis,
the chromosomes start to
become less distinct as
they start to uncoil.

- A. Anaphase
- B. Metaphase
- C. Prophase
- D. Telophase

ANSWER: D

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Practice Questions 170:17 Practi

Question 158

The only source of new alleles is

- _____
- A. Mutation
 - B. Genetic drift
 - C. Genetic flow
 - D. Natural selection

ANSWER: A

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Question 159

Allele frequencies
change as a result of

-
- A. Genetic drift
 - B. All of the above
 - C. Genetic flow
 - D. Natural selection

ANSWER: B

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Question 160

Speciation is

-
- A. The existence of a distinct population.
 - B. Caused by accumulation of environmental factors
 - C. The process whereby single species become two or more species
 - D. A means of altering gene frequencies in a population

ANSWER: C

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QuestüoPracti :13

Question 161

The key trend in primate evolution began in the

- B. Womb
- C. Forest floor
- D. Trees

ANSWER: D



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QuestüOPracti :12

Question 162

Which of the following is
NOT a trend in primate
evolution

- A. Larger body size
- B. Increasing brain size
- C. Upright standing
- D. Reliance on sense of smell

ANSWER: D

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Question 163

Which of the following is not a trend in primate evolution

- A. Modification of hair growth
- B. Change in overall skeletal structure
- C. Change in dentition
- D. Diet that includes plants and animals

ANSWER: A

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Practice
Questions

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Question 165

The evolutionary road leading to humans transcends from all the following except?

- A. Hand modification that increased manipulative skills
- B. Less reliance on smell, more on vision
- C. Shift from omnivorous to specialized eating habits
- D. Brain expansion and reorganisation

ANSWER: C



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Question 164

Primates include

-
- A. Jaguar
 - B. Apes
 - C. Monkeys
 - D. Bats

ANSWER: B

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Practice Questions
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Question 166

Evolutionary trend in animal symmetry ends with

- A. Radial symmetry
- B. Asymmetry
- C. Lateral symmetry
- D. Bilateral symmetry

ANSWER: D

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Question 167

Which of the following
statements abo
Cephalization is
INCORRECT

- A. It is an evolutionary trend
- B. One end of An organism's body becomes concentrated in Nervous tissues
- C. It occurs in all invertebrates
- D. It helps in the development of a brain

ANSWER: C

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Practice
Questions

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Question 168

All the followings are advantages that the Coelomate have over Acoelomate EXCEPT

- A. Reproductive and digestive organs can evolve more complex shapes and functions.
- B. The g tube and other organs are cushioned and thus better protected.
- C. Can act as hydroskeleton providing support and rigidity for the soft animal.
- D. The activities of the suspended g is

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disturbed by the
activity of the
animal's oer

ANSWER: D

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Question 169

The first evidence of life
on earth dates back to

- A. 3.5 billion years ago
- B. 300 million years ago
- C. 25 million years ago
- D. 4.5 billion years ago

ANSWER: A

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Question 170

Which of the following cell organelle can be viewed by a light microscope

- A. Ribosome
- B. Endoplasmic reticulum
- C. Golgi body
- D. Mitochondria

ANSWER: D

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Question 171

Pick the correct order
of complexity in the
Organization of life

- A. Organisms, Systems,
Tissues, Cells,
Organs
- B. Organisms, Systems,
Organs,
Tissues, Cells
- C. Organ, Tissues,
Systems,
Organism, Cells

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- D. Organisms, Organs,
Tissues,
Systems, Cells
- E. None of the choices

ANSWER: B

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Question 172

Pick the odd one o

- A. Nucleoplasm
- B. Nucleolus
- C. Chromoso me
- D. Nuclear arm
- E. Nucleus

ANSWER: E

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Question 173

Pick the Non-Living
inclusions in a cell

- A. Water
- B. Cytosome
- C. Golgi body
- D. Centrosome
- E. None of the above
choices

ANSWER: E

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Question 174

Which of these is not a prokaryotic

- A. Bacteriophage
- B. Blue-green Algae
- C. Mucor
- D. Staphylococcus
- E. None of the above choices

ANSWER: C

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Question 175

Which of the following is INCORRECT about Archaeological study

- A. They learn how people used to live
- B. They study human history and Prehistory
- C. It is a sub field of anthropology
- D. Portable remains dug up are called Artefacts
- E. All of the above choices

ANSWER: E

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Question 176

The optical part
of the light
microscope
includes all b

- A. Eye Piece
- B. Slide
- C. Ocular
- D. Objective
- E. Mirror

ANSWER: B

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Question 178

What is
the
ultimate
source
of
genetic
variabil
ity

- A. Mation
- B. Migration
- C. Genetic drift
- D. Non-random mating
- E. Selection

ANSWER: A

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Question 177

Which of the following would cause the Hardy-Weinberg principle to be inaccurate?

- A. No random mating
- B. There is no source of new copies of alleles from outside of the population
- C. The size of the population is very large
- D. Absence of natural selection

ANSWER: A

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Question 179

The lack of allele variation in the northern elephant seal population is an example of

- A. Matings
- B. Founders effect
- C. Artificial selection
- D. Bottleneck effect
- E. Ocrossing

ANSWER: D

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**Practice
Questions****169:42**

Question 180

The movement of new genes into a population as a result of migration or hybridization is called

- A. Founder principle
- B. Selection
- C. gene flow
- D. Bottleneck E. adaptation

ANSWER; C

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Question 181

In relation to natural selection, evolution is the

- A. Outcome
- B. Mechanism
- C. Purpose D. Process

ANSWER: A

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Question 182

Which expression represents the frequency of the homozygous recessive genotype, using the Hardy-Weinberg principle,

- A. p^2
- B. $2pq$

ANSWER: D

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Question 183

At the end of the process of mega gametogenesis, the matured embryo sac contains..... nuclei

- A. 6
- B. 7
- C. 8
- D. 9

ANSWER: C

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Question 184

At the centre of a matured
embryo sac is he.....
nuclei

- A. Antipodal
- B. Ovum
- C. Polar
- D. Synergid

ANSWER: C

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Question 185

Which one of the options is NOT diploid

- A. Ovum
- B. Ovule
- C. Megasporocyte
- D. Ovary

ANSWER: A

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Question 186

Reproduction
.....process

- A. Chemical
- B. Physical
- C. Biological
- D. Physiochemical

ANSWER: C

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Question 188

Sexual reproducing organisms have different sets of genes for every trait, these are called

- A. Character
- s B. Traits
- C. Allergens
- D. Alleles

ANSWER: D

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Question 187

Asexual reproduction process is carried out by.....

- A. Birds
- B. Humans C.
- Hydras D.
- Leopards

ANSWER: C

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Question 189

The pairing of homologous chromosomes during meiosis is called

- A. Bivalent
- B. Pairing
- C. Crossing over D. Synapsis

ANSWER: B

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Question 190

One of the significance of meiosis is

- A. Genetic stability
- B. Growth
- C. Genetic variation
- D. Gamete formation

ANSWER: D

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Question 191

The exchange of genetic material between the chromatids is called

- A. Bivalent
- B. Crossing over
- C. Chiasma
- D. All of the above

ANSWER: C

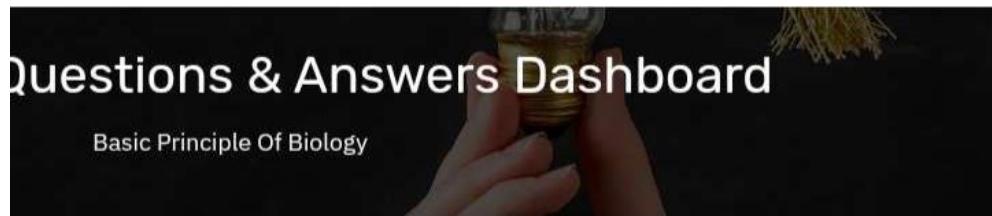
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Question 192

The main feature of meiosis is

- A. Cell multiplication
- B. Cell differentiation
- C. Cell enlargement
- D. Cell reduction

ANSWER: D

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Question 193

The formation of sex cells in animals is called-----

- A. Morphogenesis
- B. Ontogenesis
- C. Embryogenesis
- D. Gametogenesis

ANSWER: D

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Question 193

The formation of sex cells in animals is called-----

- A. Morphogenesis
- B. Ontogenesis
- C. Embryogenesis
- D. Gametogenesis

ANSWER: D

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Question 195

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The main function of centrioles in cell division includes all except

- A. Formation of bivalents
- B. Movement of chromatids
- C. Formation of asters
- D. None of the above

ANSWER: D

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Question 196

Mitosis in plant cell occurs at
the

- A. Meristems
- B. Xylem
- C. Epidermis
- D. Hypodermis

ANSWER: A

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Question 197

The haploid number of
chromosome in man is

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- A.
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- B.
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- c.
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- D.
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ANSWER: D

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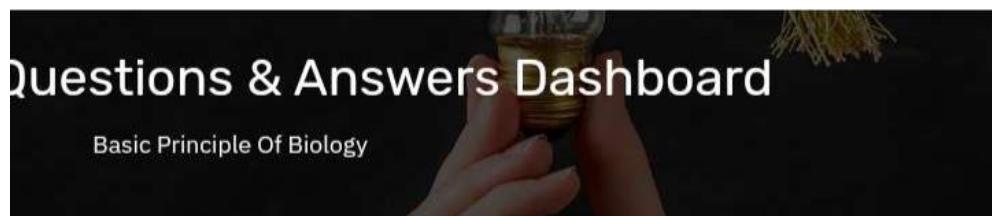
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Question 198

The irreversible increase
in size and height of
living organisms is termed

- A. Growth
- B. Development
- C. Gestation D. Maturity

ANSWER: A

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Question 199

The cell cycle is a series of events involving the following

- A. Cell development and division
- B. Cell elongation and growth
- C. Cell growth and division
- D. Cell division and shrinkage

ANSWER: C

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Question 200

In a somatic cell cycle there are two major phases

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- A. Anaphase and metaphase
- B. Anaphase and mitosis
- C. Interphase and metaphase
- D. Interphase and mitosis

ANSWER: D

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Question 201

Gap (GI) phase is stage
that occurs during the ---

- A. Anaphase
- B. Interphase
- C. Metaphase
- D. Prophase

ANSWER: B

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Question 202

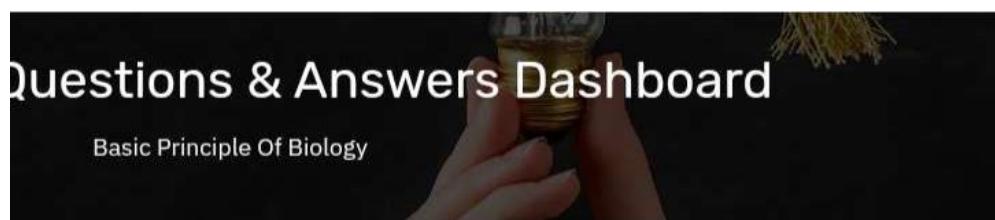


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Cytokinesis process proceeds immediately after



ANSWER: D

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Question 203

The mitotic spindle is formed during the

- A. Anaphase
- B. Interphase
- C. Metaphase
- D. Prophase

ANSWER: B

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QuestQuestion 204 Sister
chromatids split
apart at the

- A. Centroid
- B. Centromere C. Centrosome
- D. Centronesis

ANSWER: B

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Question 205

This event does not occur
during the prophase

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- A. Microtubule extend between centrosomes pushing them apart
 - B. Nuclear membrane starts to break by action of enzymes
 - C. Nucleolus aggregates and solidifies
 - D. Golgi and endoplasmic reticulum fragment and disperse to periphery

ANSWER: C

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Question 206

After a normal mitotic division number of daughters are formed

- A. 2
- B. 4
- C. 6
- D. 8

ANSWER: A

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Question 207

Decondensed chromosomes in
Telophase I condense
back in stage of
meiosis

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- B. Metaphase II
- C. Prophase II
- D. Telophase II

ANSWER: C

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Question 208

A diploid cell has number of chromosomes as the haploid cell

- A. 2
- B. 4
- C. 6
- D. 8

ANSWER: A

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Question 209

Gametes cells are usually

- A. Aneuploid
- B. Diploid
- C. Haploid D. Triploid

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ANSWER: C

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Question 210

The longest phase in the Cell
cycle is

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- A. Gap 1 phase
- B. Gap 2 phase
- C. S-phase D. Mitotic

ANSWER: A

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Question 211

Collagen is a _

- A. Globular protein
- B. fibrous protein
- C. metalloprotein D. glycoprotein

ANSWER: B

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Question 212

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Albumin is a _____
A. Globular protein
B. fibrous protein
C. metalloprotein D. glycoprotein

ANSWER: A

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Question 213

Amino acid is an organic molecule that is made up of all the following except

- A. Carbon
- B. A carboxyl group
- C. Hydrogen atom D. A phosphate group

ANSWER: D

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Question 214

Haemoglobin
is a

- A. Globular protein
- B. fibrous protein
- C. metalloprotein
- D. glycoprotein

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ANSWER: A

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Question 215

A person with low red blood cell in his/her body is said to have

- A. Leukemia
- B. Uremia
- C. Euphemia D. Anaemia

ANSWER: A

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Question 216

Mycology is the study of

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- A. Bacteria
- B. Virus
- C. Fungi
- D. Microorganisms

ANSWER: C

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Question 217

The major branches of biology includes all except

- A. Botany
- B. Zoology
- C. Microbiology
- D. Biochemistry

ANSWER: D

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Question 218

The number of chromosomes per nucleus of the product of meiosis isnumber?

- A. Somatic
- B. Haploid
- C. Diploid
- D. Double

ANSWER: B



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Question 219

Identify the odd one o of
the following:

- A. Mation
- B. Genetic drift
- C. Gene migration D. Speciation

ANSWER: B

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Question 220

Naturally occurring gene or point mation is termed what?

- A. Mation of gene
- B. Chromosomal aberration
- C. Spontaneous point mation
- D. Reverse mation

ANSWER: C

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Question 221

The phenotype or an organism is a product of interaction between the organism . and?

- A. Genome and chromosome
- B. Chromosome and DNA
- C. Genome and environment
- D. Gene and nucleus

ANSWER: C

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Question 222

Term used in Botany
for development of
embryo or seed witho
fertilization
occurring is

- A. Aggregation
- B. Agitation
- C. Apomixis
- D. Embryogenesis
- E. All of the above

ANSWER: C

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Question 223

Actively dividing cells are sa

is

- A. Erratic
- B. Hypergenic
- C. Hyperkinetic D. Meristematic E. Spontaneous

ANSWER: D

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Question 224

Set of genes for any traits in organisms are called

- A. Alleles
- B. Characters
- C. Gametes
- D. Syngens E. Types

ANSWER: D

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Question 225

The fertilization of
an individual ovum by
the sperm of another

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individual is known
as

- A. Allogamy
- B. Allogeny
- C. Aogamy
- D. Aogeny
- E. Syngamy

ANSWER: A

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Question 226

Chromosome condenses and
is made visible at

- A. Anaphase
- B. Chiaphase
- C. Metaphase
- D. Prophase
- E. Telophase

ANSWER: D

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Question 227

Genes are located in

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- A. Chromatin
- B. DNA
- C. Histones
- D. RNA
- E. Tubulins

ANSWER: B

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Question 228

The cell moves from the Interphase into the Cell Division stage when the phase is ended

c. M1

E.S

ANSWER: E

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Question 229

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Nuclear envelope are broken down by at.....

- A. Enzymes, Anaphase
- B. Enzymes, Prophase
- C. Hormones, Anaphase
- D. Hormones, Prophase
- E. None of the above

ANSWER: B

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Question 230

Sexual reproducing organisms have different sets of genes for every trait, these are called

- A. Characters
- B. Traits
- C. Allergens

ANSWER: D

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Question 231

The fertilization of an ovum from one individual with the spermatozoa of another is known as

- A. Allogamy
- B. Aomogamy
- C. Cleistogamy D. Geitogamy

ANSWER: A

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Question 232

Growth is measured as a unit of size per

- B. Time
- C. Length
- D. Width

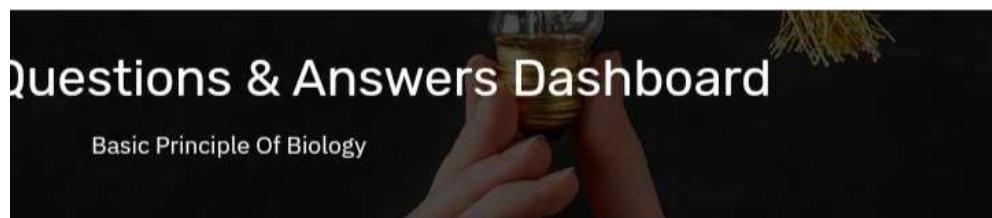
ANSWER: B

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Question 233

The phases of a cell cycle are

- A. Growth an Division
- B. G1 and G2 C. Interphase and S phase D, Mitosis and Meiosis

ANSWER: A

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Question 234

Vicia faba (bean) has
.....number of
chromosomes in its
diploid state

- A. 18
- B. 16
- C. 14
- D. 12

ANSWER: D

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Question 235

The androecium of the plant is made up of all the following except

- A. Stamen
- B. Ovule
- C. Filament D. anthers

ANSWER: B

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Question 236 A
megasporangium mother cell
is always

- A. Haploidiploid
- B. Haploid
- C. Diploid
- D. None of the aforementioned

ANSWER: C

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Question 237

The process in plants which leads to formation of the female gametes is known as

- A. Megametogenesis
- B. Microgametogenesis
- C. Gametogenesis D. Spermatogenesis

ANSWER: A

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Question 238

The process in hermaphroditic organisms where the two gametes fused in fertilization come from the same individual is known as

- A. Heterogamy
- B. Oogamy
- C. Allogamy
- D. Geitogamy

ANSWER: D

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Question 239

The Mitochondria functions in all of the following except

- A. Production of energy currency of the cell
- B. Site of cellular respiration
- C. Regulation of cellular metabolism
- D. Protein synthesis

ANSWER: D

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Question 240

Which of the following statement abo
Mitochondrion is not
true

- A. Mitochondria in the cell fuse with one another
- B. In all cells, one mitochondria will be exceptionally larger than others
- C. Large mitochondria in the cell can split into two
- D. Size and shape of mitochondria varies in a cell

ANSWER: B

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Question 241

Mitochondria in human
sperm cell are occupied
at-----

- A. Mid piece
- B. Sperm tail
- C. Sperm head
- D. No mitochondria in the sperms

ANSWER: A

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Question 242

All the following sites has
ribosomes except?

- A. Mitochondria
- B. Chloroplast
- C. Nucleus
- D. Cytoplasm

ANSWER: C

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Question 243

Ribosomes are present in

- _____
- A. Eukaryotes only
 - B. Eukaryotes and Prokaryotes
 - C. Prokaryotes
 - D. Eukaryotes, Prokaryotes and Viruses

ANSWER: B



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Question 244

Ribosomes are made of

- A. RNA only
- B. RNA and Proteins
- C. RNA, DNA and Proteins
- D. Nucleic acids, Proteins and Lipids

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ANSWER: B



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Question 245

The cell theory is not applicable to

- A. Bacteria
- C. Virus
- D. Fungi

ANSWER: C

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Question 246

The membrane around the
vacuole is called

- A. Cytoplasm
- B. Tonoplast C. Amyloplast
- D. Elaioplast

ANSWER: B

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Questtué:52

Question 247

Plant cell wall mainly composed of

- A. Cellulose
- B. Starch
- C. Protein D. Lipid

ANSWER: A

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Questions

Question 248

The main function of centrosome is

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- A. Osmoregulation
- B. Protein synthesis
- C. Formation of Spindle fibre
- D. Secretion

ANSWER: D

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Question 249

Smooth endoplasmic
reticulum is the site
of

- A. Protein synthesis
- B. Carbohydrate synthesis
- C. Amino acid synthesis
- D. Lipid synthesis

ANSWER: D

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**Practice
Questions****166:48**

Question 250

Identify the non-membranous organelle from the following

- A. Ribosome
- B. Endoplasmic reticulum
- C. Nucleus
- D. Chloroplast

ANSWER: A

BIO 101 : 428 Timer

**Practice
Questions****166:47**

Question 251

Which of the following organelle lack ribosomes

- A. Mitochondrion
- B. Chloroplast
- C. Nucleus D. RER

ANSWER: C

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**Practice
Questions****166:46**

Question 252



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Which of the following statements are true

- A. Ribosomal components are coded by DNA
- B. Ribosomes are selfreplicating organelles

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- C. Ribosomes are double membrane bound organelles D. Ribosomes are deoxyribonucleoprotein

ANSWER: A

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Practice
Questions

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Question 253

Which of the following is a double membrane bound organelle

- A. Mitochondria
- B. Chloroplast C. Nucleus
- D. All of these

ANSWER: D

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Question 254

Plastids are absent in

- A. Animals and Plants
- B. Fungi and animals
- C. Animals, Bacterium and Fungi
- D. None of these

ANSWER: C

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Question 255

The organelle responsible
for life on this planet is

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- A. Mitochondria
- B. Chloroplast
- C. Nucleus
- D. Ribosomes

ANSWER: B

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Question 256

What is the definition of a biosphere

- A. The global ecosystem
- B. All organisms in a given area
- C. The scientific study of how organisms interact with their environment
- D. None of the choices

ANSWER: B

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Question 257

What is the definition of a genome

- A. The global ecosystem
- B. An organism's genetic material
- C. All organisms in a given area
- D. The scientific study of how organisms interact with their environment

ANSWER: B

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Question 258

What is ecology

- A. The global ecosystem
- B. An

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- organisms
- genetic material
- C. All organisms in a given area
- D. The scientific study of how organisms interact with their environment

ANSWER: D

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Question 259

An individual's collection of genes is called

- A. Phenotype
- B. Genotype
- C. Traits
- D. None of the choices

ANSWER: B

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Question 260

A trait that overpowers and
hides another trait is
called

- A. Recessive traits
- B. Overpowering trait
- C. Dominant
- D. Complex trait

ANSWER: C

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Question 261

What gas do the leaves of plants take in?

- A. Hydrogen peroxide
- B. Carbon
- C. Carbon Dioxide
- D. Photosynthesis

ANSWER: C

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Questtué:25

Question 262

Down's syndrome is caused due to

- A. Monosomy of 21st chromosome
- B. Disomy of 21st chromosome
- C. Trisomy of 21st chromosome
- D. An extra X chromosome in female

ANSWER: C

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Question 263

What type of allele produces its effects only in homozygous individuals

- A. Recessive
- B. Dominant
- C. Incomplete recessive
- D. None of the choices

ANSWER: A

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Questtué:23

Question 264

The total of all harmful and lethal genes which are present in individuals are called

- A. Genome
- B. Gene pool
- C. Genetic drift
- D. Genetic load

ANSWER: D

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Question 265

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Theory of inheritance



of the acquired character was proposed by

- A. Lamark
- B. Darwin
- C. Weinsmann D. Correns

ANSWER: A

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tions 166:20 Pract
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Question 266

Which of these is a correct type of mutation

- A. Transcription
- B. Polymerase
- C. Substitution D. Addition

ANSWER: C

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Question 267

A light microscope can also be referred to as a?

- A. Electron microscope
 - B. Compound microscope C.
 - Scanning problem microscope
 - D. Optical microscope

ANSWER: D

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Question 268

The two knobs used for focusing the image include fine adjustment knob and?

- A. Coarse adjustment knob
 - B. Diaphragm
 - C. Stage D. Objective lens

ANSWER: A

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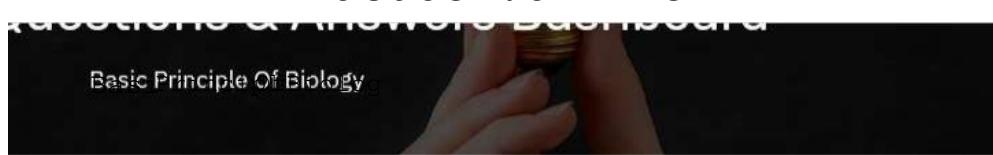
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Question 269

On the microscope stage,
what is used to hold the



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glass slide in place and
prevent it from moving

- B. Stage clip
- C. Fine adjustment
knob D. Condenser

ANSWER: B

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Question 270

Which part of the
microscope should you hold
when lifting or moving the
microscope?

- A. Eyepiece and body tube
- B. The base and stage
- C. Arm and base D. Objectives

ANSWER: C



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Question 271
Total magnification is
the product of two



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values: power of eyepiece and power of?

- A. Ocular lens
- B. Objective lens
- C. Illumination D. Light source

ANSWER: B

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Question 272

A stereo microscope is used to?

- A. Observe the surface of an object
- B. View cell contents C.

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🔒 Observe live
cells D. Observe



ANSWER: A

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Practice
Questions

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Question 273

Which of the following are low power lenses?

B. 40X

D. None of the choices

ANSWER: A

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Question 274

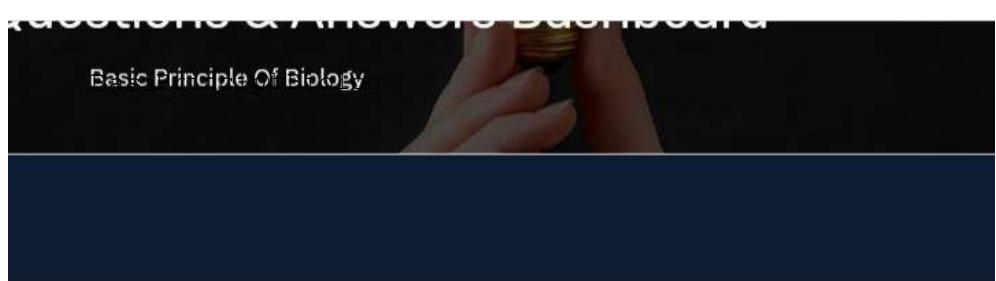
To obtain total magnification, you should _____ the magnification of the eyepiece to the objective lens power.

B. Multiply

C. Divide

D. Subtract

ANSWER: B



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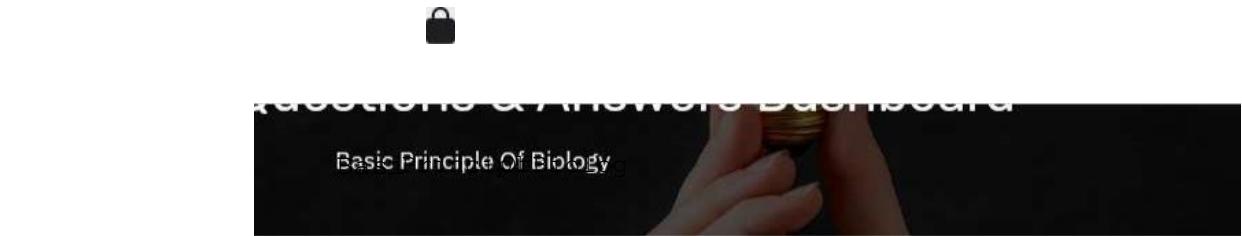
Question 275

Which part of the microscope
are objective lenses
attached

- B. Eyepiece
- C. Base D. Nose piece

ANSWER: D

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Question 276

Both plant and animal
cells contains

- A. Cell membrane,
mitochondria,
plastids, nucleus
and cytoplasm B.
Cell membrane,
mitochondria,
ribosomes,
chloroplast and
cytoplasm
C. Cell membrane,
mitochondria Golgi

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apparatus,
endoplasmic
reticulum
cytoplasm
and
D. All of the choices

ANSWER: C

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Question 277

Food substances, water and
mineral salts are stored in
the---

A. Cytoplasm
B. Cell membrane
C. Ribosomes
D. Nucleolus E. Vacuole

ANSWER: E

BIO 101 : 428 Timer



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Quest 4: 02

Question 278

The organelle that is lipid bi-layer in nature is----

- A. Nucleus
- B. Centriole
- C. Cell membrane D. Nucleolus
- E. All of the above

ANSWER: C

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Question 279

The "Brain of the Cell" is----

- A. Cell membrane
- B. Nucleus
- C. Cytoplasm
- D. Ribosomes
- E. None of the above

ANSWER: B

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Question 280

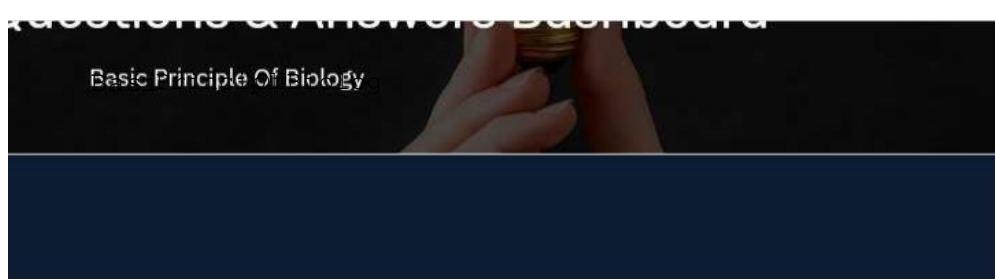
The semi-permeable organelle that regulates the entry and exit of substances into the cell is called

- A. Ribosomes
- B. Nuclear membrane
- C. Endoplasmic Reticulum
- D. Chromosomes
- E. Cell membrane

ANSWER: E

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BIO 101 : 428 Timer

Practice
Questions **165:57**

Question 281

What is the major source of heritable variation?

- B. Chromosome
- C. Mation
- D. Chemicals

ANSWER: B

BIO 101 : 428 Timer

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Question 282

..... is the type of mation that can lead to abrupt speciation?

- A. Point mation
- B. Chromosomal aberration
- C. Gene mation
- D. Spontaneous mation

ANSWER: B





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Practice

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Question 283

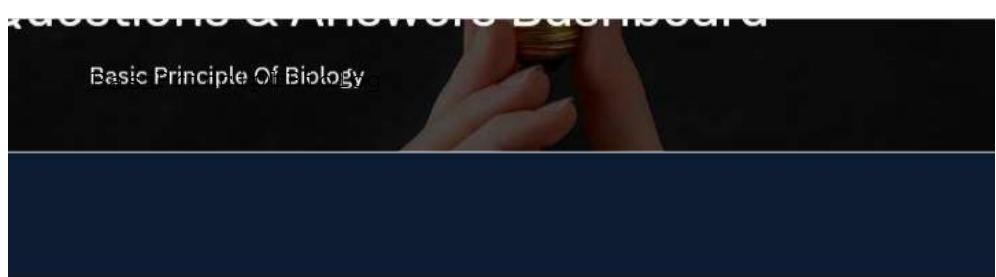
Gametogenesis is a process whereby living organisms set aside half of their genome in readiness for sexual reproduction. This process is aided by what type of cell division?

- A. Anaphase
- B. Telophase
- C. Mitosis
- D. Meiosis

ANSWER: D

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Question 284

Naturally occurring gene or point mutation is termed what?

- A. Mutation of gene
- B. Chromosomal aberration
- C. Spontaneous point mutation
- D. Reverse mutation

ANSWER: C

BIO 101 : 428 Timer

Quest 5:48

Question 285

The following are examples of discontinuous variation except?

- A. Skin colour in man
- B. Gender
- C. Ability to roll tongue
- D. ABO blood group

ANSWER: D

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Question 286

A typical chromosome with two equal arms is called chromosome



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A. Giant



B. Telocentric

C. Metacentric D. Pericentric

ANSWER: C

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Question 287

The phenotype of an organism is a product of interaction between the organism and.....

A. Genome and chromosome B.

Chromosome and DNA

C. Genome and environment D. Gene and nucleus

ANSWER: C

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Question 288

Given an organism with haploid chromosome number of 32 ($n=$) What will be the somatic chromosome number in this sam organism?

- A. $n=32$
- B. $n=24$
- C. $2n = 64$
- D. $2n = 32$

ANSWER: C

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Question 289



Level of biological organization of an individual living organism is in the following order

- A. Cells, organelles, systems, tissues, organs
- B. Cells, organelles, systems, tissues, organs
- C. Organelles, cells, tissues, organs, systems
- D. Organelles, tissues, cells, organs, systems

ANSWER: C

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Questions & Answers Dashboard

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Questions

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Question 290

Protein coat encasing the nucleic acids of viruses is known as

- A. Plasmalemma
- B. Tonoplast
- C. Capsid
- D. Cell wall

ANSWER: C

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Question 291

The basic unit of living things is the

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A. Organelle



- B. Virion
- C. Cell
- D. Tissue

ANSWER: C



Question 292

Plants cells have this
outermost protective
layer that animals
cells lack

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A. Plasmallema



B. Tonoplast

C. Capsid

D. Cell wall

ANSWER: C

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Question 293

- B.
- c.
- D.

ANSWER:

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Question 294

The three main types of cells
are all except

- A. Eukaryote
- B. Prokaryote
- C. Leptokaryote D. Mesokaryote

ANSWER: C

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Question 295

Mesokaryotic organisms include the

- A. Some achaebacteria and eubacteria
- B. Some plants and animals
- C. Some algae and protozoa
- D. Some algae and archaebacteria

ANSWER: C

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Question 296

The sites of photosynthesis and protein synthesis in cells are

- A. Chloroplasts and mitochondria respectively
- B. Ribosomes and mitochondria respectively
- C. Chloroplasts and ribosomes respectively
- D. Ribosomes and chloroplasts respectively

ANSWER: C

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Question 297

The main energy used to run biological systems metabolism is the compound,

- A. ADP
- B. ATP
- C. NADP



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D. NADPH

ANSWER: B

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Question 298
Tissues are a collective group of kind like

- A. Organs
- B. Organelles
- C. Cells
- D. Nodes

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ANSWER: C

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Question 299

In the order of their functions within the plant system, tissues are classified to include

- A. Parenchyma, collenchyma and sclerenchyma
- B. Mesophyll, cortex and pith C. Meristems, dermal and vascular
- D. Meristems, parenchyma and collenchyma

ANSWER: C

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Question 300

Vascular tissues in plants
are mainly used for

- A. Division during reproduction and growth
- B. Protection of the tissues
- C. Transportation of water, minerals and organic compounds
- D. None of the options given

ANSWER: C

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Question 301

Higher Animals bodies
have the following
tissues except

- A. Epithelial
- B. Muscle
- C. Conducting
- D. Connective

ANSWER: C

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Questions **165:17**

Question 302

The xylem transports

- A. Sugars
- B. Proteins
- C. Water D. Lipids

ANSWER: C

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Question 303

Epithelial tissues are part of organs in humans and there these numer types of them

- A. 6
- B. 7
- C. 8
- D. 9

ANSWER: C

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Question 304

Functions of connective tissue include all below except

- A. Storing energy
- B. Protection
- C. Support
- D. None of the option

ANSWER: C

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Question 305

In humans there are three types of muscles

- A. Marrow, cardiac and skeletal
- B. Connective, cardiac and smooth
- C. Cardiac, skeletal and smooth
- D. Cardiac connective and marrow

ANSWER: C

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Question 306

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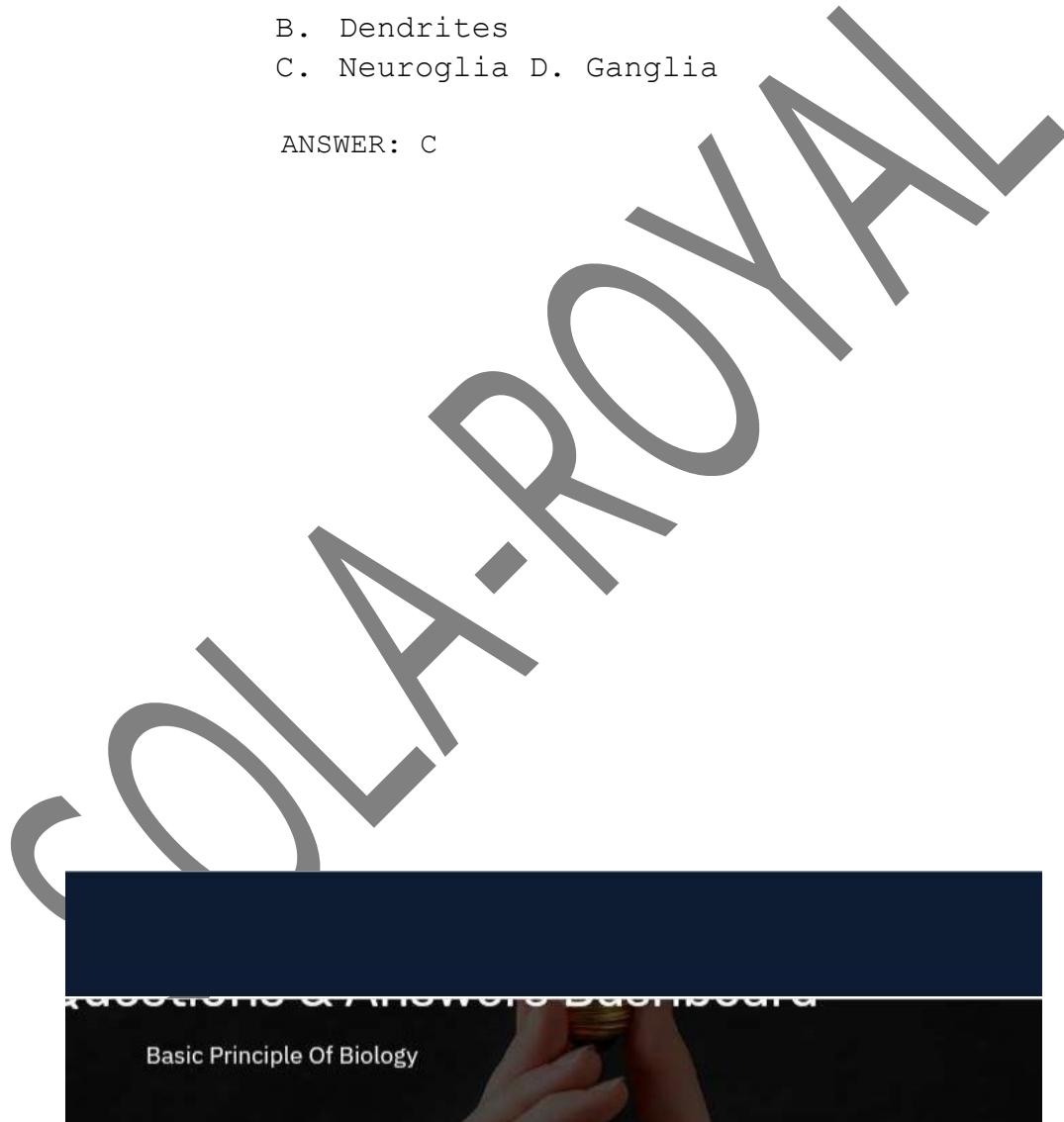
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Nervous tissues that lacks a specific function, only surrounding/protecting and assisting the neurons, is the

- A. Axons
- B. Dendrites
- C. Neuroglia D. Ganglia

ANSWER: C



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Question 307

This is not an organ of higher plants

- A. Roots
- B. Leaves
- C. Epidermis D. Flowers

ANSWER: C

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Question 308

Organ systems in animals include all listed except

- A. Lungs
- B. Immune
- C. Muscular D. Skeletal

ANSWER: A

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Question 309

A persistent, directional change in a set of character states, resulting in a significant change through time is known as

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A. Transition

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- B. Force
C. Evolution D. Inertia

ANSWER: C

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Question 310

Evolution occurs at the
level

- A. Species
B. Family
C. Cellular
D. Population

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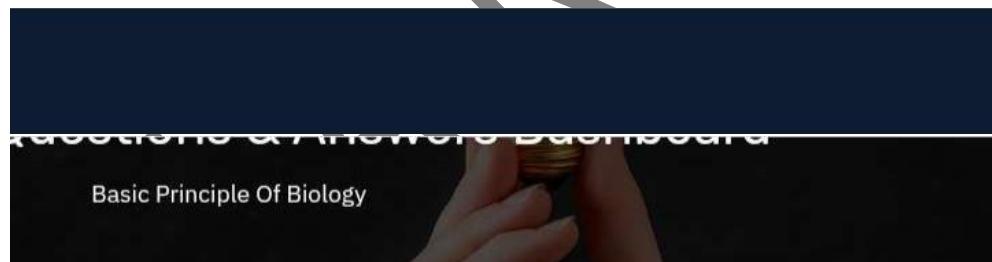
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ANSWER: D

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Question 311

Evolutionary trends can be
assessed by

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- A. Evaluating the amount of morphometric change over time
- B. Assessing the survival rate of individuals in a population
- C. Population growth
- D. None of the above

ANSWER: A

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**Practice
Questions****165:02**

Question 312

Which of these is not an example of retrogressive evolution in plants

- A. Derivation of fungi from algal ancestors as a result of loss of chlorophyll,
- B. The development of structurally simplified types of flowers from more elaborate and more complex flowers
- C. Change from aotrophic nature to parasitic mode of

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~~nrition in parasitic Cusca due to loss of chlorophyll~~

~~D. Developmemnt of fonds into roots~~

ANSWER: D

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Practice Questions 165:00

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~~Question 313~~

Which of the following statements on Evolution is incorrect

A. Various organisms have evolved in the past, some extinct and many are still existing



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- B. it yields new groups of plants and animals, advances very slowly and requires millions of years to produce new taxa
- C. Evolution proceeds either on progressive or on retrogressive lines.
- D. Progressive and retrogressive evolution occurs interchangeable

ANSWER: D

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Question 314

What causes allele frequency to change

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- A. Natural selection
- B. Gene flow
- C. Gene frequency
- D. Genetic drift

ANSWER: C

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Question 315

The major difference between Allopatric and sympatric speciation is that

- A. Sympatric speciation occurs more frequently than allopatric
- B. Sympatric speciation leads to two sub-population which are reproductively isolated
- C. There is difference in geographical distribution of the populations
- D. There is no difference

ANSWER: C

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Question 316

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The factors that promote sympatric speciation includes all except

- A. Polyploidy
- B. Habitat differentiation
- C. Sexual selection
- D. Extinction

ANSWER: D



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Question 317

The first evidence of life on earth dates back to

- A. 4.6 billion years ago
- B. 3.6 billion years ago
- C. 3 million years ago
- D. 4.6 million years ago

ANSWER: B

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**Practice
Questions****164:46**

Question 318

The first organisms were

- A. Chemoautrophs
- B. Chemoheterotrophs
- C. Autotrophs
- D. Eucaryotes

ANSWER: B

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Question 319

Study of fossils is

- A. Palaeontology
- B. Herpetology
- C. Saurology
- D. Organic evolution

ANSWER: A

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**Practice
Questions****164:44**

Question 320

Theory of Natural selection dwells on

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- A. Role of environment in evolution
- B. Natural selection acting on favourable variations
- C. Changes in gene complex resulting in heritable variations
- D. None of the above

ANSWER: C

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**Practice
Questions**

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Question 321

The evolution of new plant species from two diploid species which formed a new tetraploid species that could not fertilize or be fertilized by either of its two parent species is a form of

- A. reproductive isolation
- B. habitat fragmentation
- C. regeneration D. none of the above

ANSWER: A

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Question 322

the trend in the evolution of body cavity in animals progressed from

- A. Coelomates Pseudocoelomates Acoelomates
- B. Hydrostatic body skeleton
- C. Bilateral symmetry Segments
- D.

ANSWER: A

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BIO 101 : 428 Timer

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Question 323

The trend in Cephalization results in evolution of animals with

- A. A true head with brain
- B. Hydrostatic body skeleton
- C. Bilateral symmetry D. Segments

ANSWER: A

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Question 324

The trend among primates during hominid evolution involves

- A. From four legged gaits to bipedalism
- B. Changes in the shoulders, backbone, pelvic girdle, legs and dentition
- C. Modification of hands leading to increased manipulative skills
- D. All of the above

ANSWER: A

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Question 325

The trend among primates during hominid evolution involves

- A. Less reliance on sense of smell, more reliance on enhanced daytime vision
- B. From specialized to omnivorous eating habits
- C. Brain expansion and reorganization
- D. All of the above

ANSWER: A

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Question 326

Trend in behavioural modification
in animals includes all except

- A. Longer life span
- B. Longer periods between pregnancy
- C. Single births rather than litters
- D. Ability to crawl as a baby

ANSWER: D

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Question 327

The trend in plant evolution involves development of the following parts except

- A. vascular tissues,
- B. seeds
- C. flowers.
- D. None of the above

ANSWER: D

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Question 328

In microscopy, the microscope must accomplish the following tasks. It must:

- A. Produce a magnified image of the specimen
- B. Separate the details in the image
- C. Render the details visible to the human eye or camera
- D. Provide only the mine subcellular structures of interests.

ANSWER: E

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Question 329

Zoocharia Jansen in ---- year and his brother Hans in -----year used second lens in microscope that enlarged imaged formed by first lens by 50-100X.

- A. 1590 and 1595
- B. 1915 and 1959
- C. 1890 and 1895 D. 1795 and 1779

ANSWER: A

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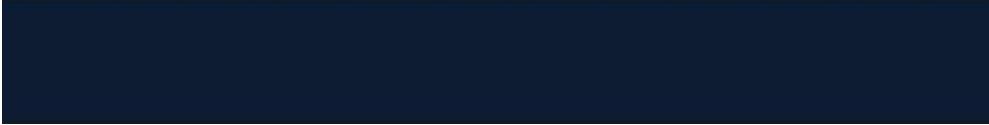
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Question 330

The first known image of
a microscope is a
drawing by ----- in
1631.

- A. Roger Bacon
- B. Zacharias Jansen
- C. Isaac Beeckman
- D. Arab Alhazan

E. A&E

ANSWER: C

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Question 331

- B.
- C.
- D.

ANSWER:

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Question 332

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- B.
- C.
- D.

ANSWER:

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Question 333

A German Physicist, —
opined that oil
emersion lens can

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prevent image-length
distortion.

- A. Isaac Beeckman
- B. Anton van Leeuwenhoek
- C. Galileo
- D. Ernst Abbe E. Robert Hooke

ANSWER: D

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Question 334

In 1931, a German
scientist, -----
invented electron
microscope which can

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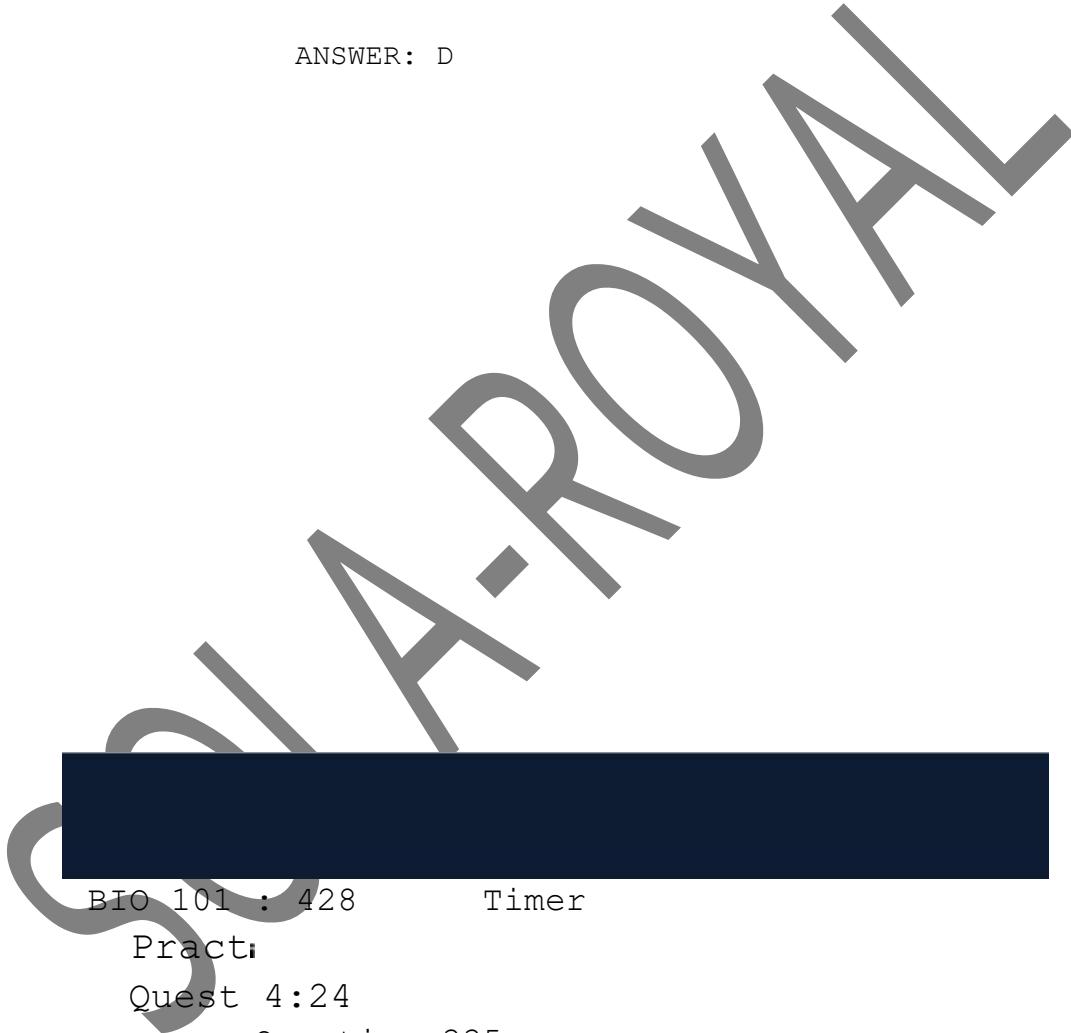
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magnify as much as
million times.

- A. Isaac Ruska
- B. Anton Ruska C. Ernst Abbe
- D. Ernst Ruska
- E. Ernst Hooke

ANSWER: D



BIO 101 : 428

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Question 335

The major setback of
electron microscope
is:

- A. Inability to
focus well

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- B. The use of electron as its source of light
- C. Inability to observe living cells
- D. The big nature of the microscope
- E. All of the above

ANSWER: C

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Question 336

The part of Microscope used to change focus on one eyepiece so as to correct for any difference in vision between your two eyes is called....

- A. Objective Lens
B. Diopter Adjustment piece/ocular lens
C. Eye
D. Coarse Adjustment
E. Fine Adjustment

ANSWER: B

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Question 337

----- connects the
eyepiece to the
objective lenses.

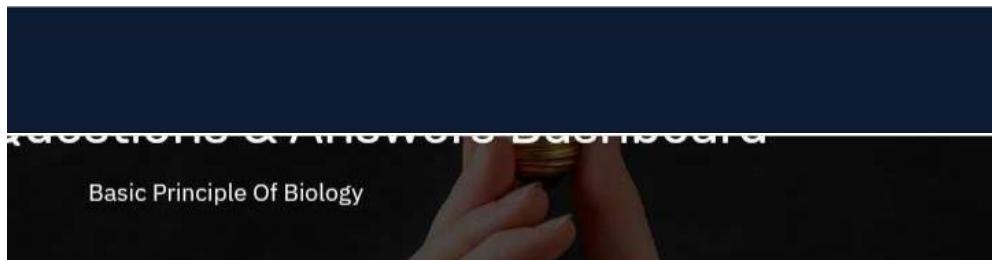
- A. Pillar
- B. Body tube (Head)
- C. Coarse Adjustment
- D. Fine Adjustment E. Pipe

ANSWER: B

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Question 338

The part of the microscope that brings the specimen into general focus is called -

- A. Eye piece/ocular lens
- B. Objective Lens
- C. Coarse Adjustment
- D. Diopter Adjustment
- E. Fine Adjustment

ANSWER: C

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Question 339

-----fine tunes the focus
and increases the detail
of the specimen.

- A. Eye piece/ocular lens
- B. Objective Lens
- C. Coarse Adjustment
- D. Diopter Adjustment
- E. Fine Adjustment

ANSWER: E

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Question 340

The revolving part of the microscope that holds the objective lenses and can be turned to increase the magnification is called-----

Sohail PC



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- A. Eye piece/ocular lens
- B. Objective Lens
- C. Coarse Adjustment
- D. Nose piece E. Fine Adjustment

ANSWER: D

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Question 341
The frame of the
microscope to which
base, body and stage
are attached is
called---

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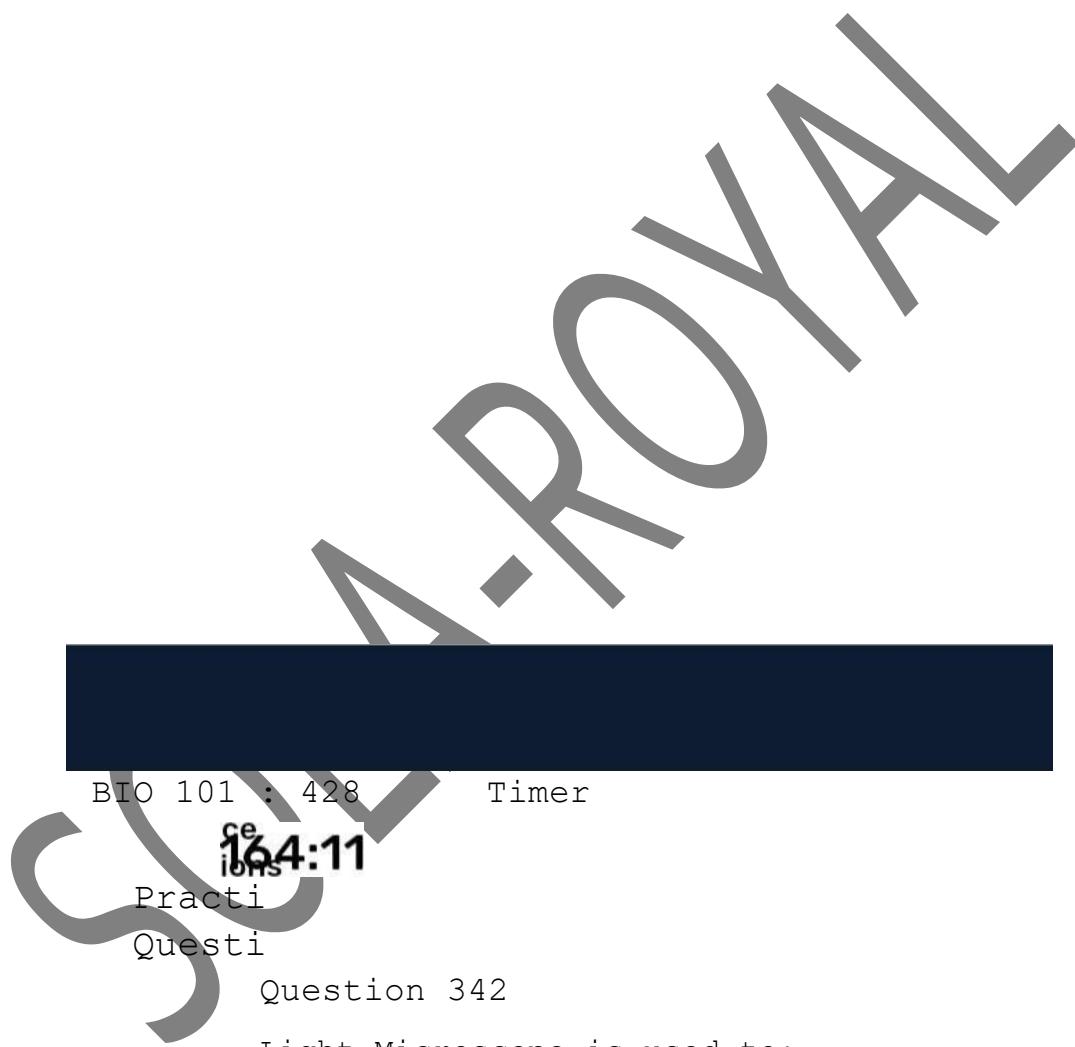
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- A. Eye piece/ocular lens
- B. Objective Lens
- C. Coarse Adjustment
- D. Nose piece E. Arm

ANSWER: E



- A. Study preserved mine specimen/cells and activities within the cell.

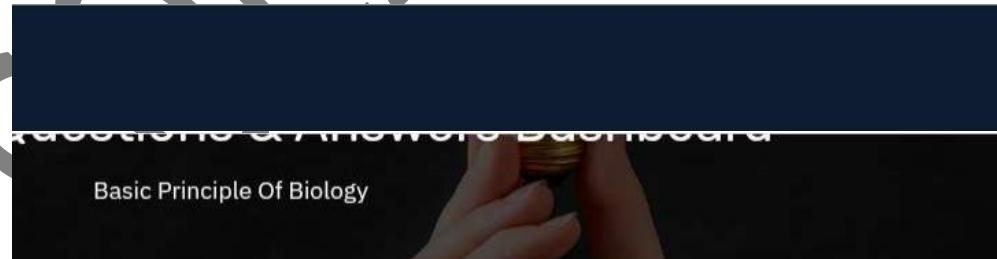
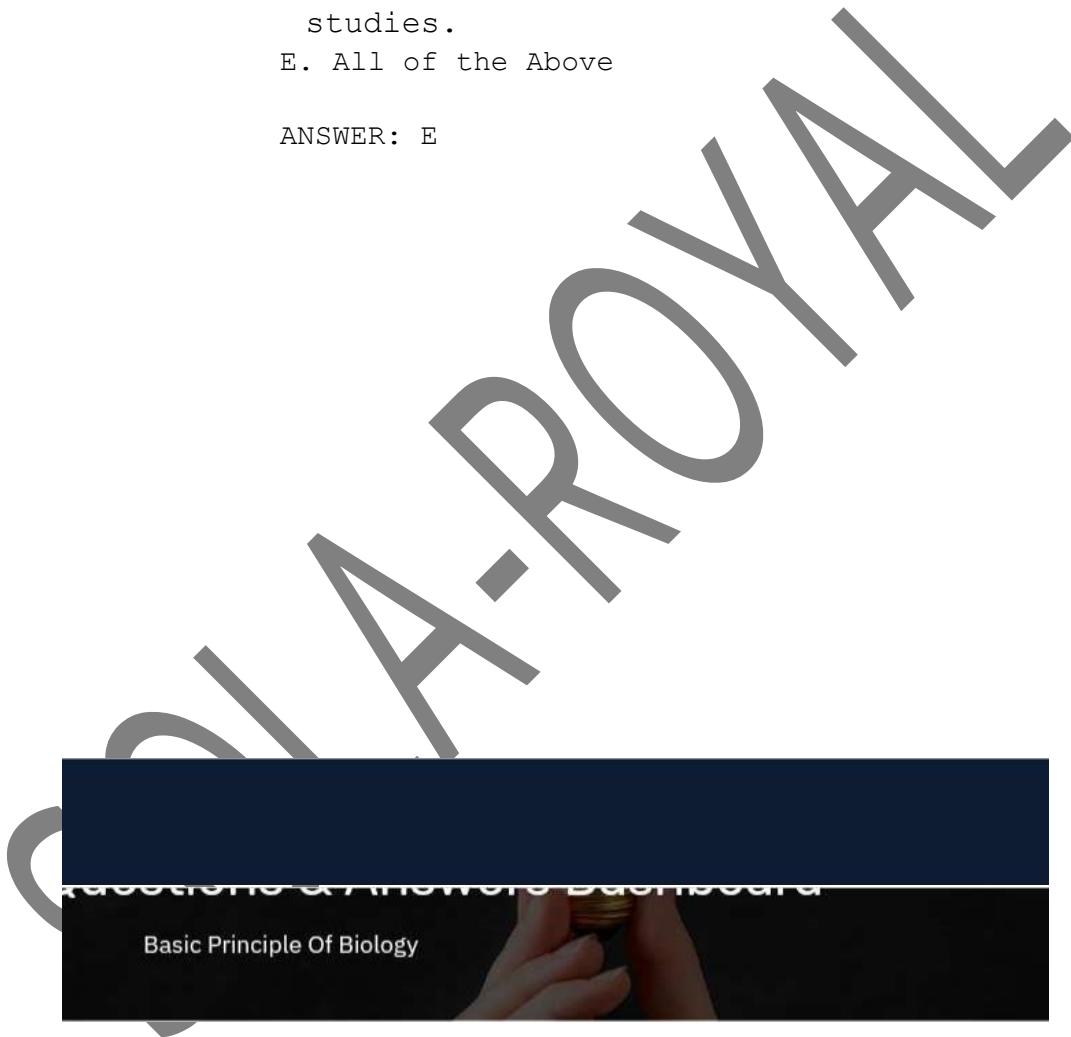
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- B. Identifying macromolecules of cell.
- C. Carry o Medical diagnosis. D. Explore histopathological studies.
- E. All of the Above

ANSWER: E



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Question 343

The microscope which uses an opaque disk instead of a normal condenser to create a dark background against a brightly illuminated object is referred to as

--

- A. Phase Contrast Microscope
- B. Dark Field Microscope
- C. Bright Field Microscope
- D. Fluorescence microscope
- E. Stereoscope
- F. Microscope

ANSWER: B

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Question 344

The microscope which organism can be seen alive, without staining such that images differentiates in refractive index of cellular structure is called -

- A. Phase Contrast Microscope
- B. Dark Field Microscope
- C. Bright Field Microscope
- D. Fluorescence microscope
- E. Stereoscope Microscope

ANSWER: A

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Question 345

----- Microscope was developed by the Physicist called ----- and was awarded the Nobel prize in Physics in 1953.

Contrast Microscope; Fr

itz

Zernike

B. Dark Field Microscope;

Galileo

C. Bright Field Microscope;

Ernst Ruska

D. Fluorescence microscope;

Ernst

Abbe

E. Stereoscope

Microscope; Robert

Hooke

ANSWER: A

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Question 346

Based on the source of
light, microscopes are
basically classified
into----

- A. 2
- B. 4
- C. 6
- D. 8
- E. 10

ANSWER: A

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Question 347

The following are types of Electron Microscope:

- A. Stereoscopic Electron Microscope
- B. Scanning Electron Microscope
- C. Fluoroscopic Electron Microscopic
- D. Transmission Electron Microscope
- E. Band D

ANSWER: E



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Question 348

- B.
- c.
- D.

ANSWER:

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Question 349

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The type of Electron Microscope used to observe internal and ultrastructures (fine details) of cell structure is called -

- A. Scanning Electron Microscope
- B. Transmission Electron Microscope
- C. Both A and B
- D. Stereoscopic Electron Microscope
- E. None of the Above

ANSWER: B

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Question 350

The type of Electron Microscope used to study the surface of cell(s) and organisms.

- A. Scanning Electron Microscope
- B. Transmission Electron Microscope
- C. Both A and B
- D. Stereoscopic Electron Microscope
- E. None of the Above

ANSWER: A

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Questions

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Question 351

- B.
- C.
- D.

ANSWER:

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**Practice
Questions**

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Question 352

The organelle responsible for the trapping of sunlight energy is

- A. Xylem
- B. Mitochondria
- C. Chloroplast D. Nucleus

ANSWER: C

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Question 353

Which is the correct sequence

- A. System, organ,
 organelles, cells,
 organism
- B. Organelles, cells,
 organ, system,
 organism
- C. Organism, system,
 cells, organelles,
 organs

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Question 354

The acronym for Tonoplast is

- A. Energy house
- B. Sucidal bag
- C. Repair room
- D. Center of activities

ANSWER: B

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Practice
Questions

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Question 355

Which of these is NOT a theory on origin of life?

- A. Spontaneous Generation
- B. Darwin theory
- C. Chemical theory

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D. Haldane and oparin theory

ANSWER: B

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Question 356

The genetic organization of prokaryotes is best represented as

- A. Simple loop of DNA in the nucleus
- B. Complex helix form of DNA in the nucleus
- C. Simple loop of DNA in the cytoplasm
- D. Moderate loop of DNA on the plasm membrane

ANSWER: C

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Question 357

The earliest forms of life
some 600 Mya [600 million
years ago)

- A. Anaerobes
- B. Aerobes
- C. Photosynthetic D. Complex

ANSWER: A

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Questions

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Question 358

The first major group of organs on earth is

- A. Flowering plants
- B. Cyanophytes
- C. Fungi

ANSWER: B

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Question 359

Pick the correct sequence in other of simplicity

- A. Primodial gases, Aminoacids , proteinoids , procells
- B. Primodial gases , Procells, Aminoacids , proteins
- C. Aminoacids, Proteins, procells, Primodial gases
- D. Procells , Protein, Aminoacids, Primodial gases

ANSWER: D

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Questu3Practi :41

Question 360

Organisms with differentiated multiple cells are

- A. Advanced Prokaryotes
- B. Simple Prokaryotes
- C. Eukaryotes D. Archeon

ANSWER: C



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**Practice
Questions**

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Question 361

Which is correct as abiotic components of cells

- A. Water, salt, starch grains, oil droplets
- B. Water, Ribosomes, Salt, oil droplets
- C. Mitochondria, Chloroplast, water salts
- D. Water, Nucleus, Salts, Oil, Vitamins

ANSWER: A

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Practice Questions
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Question 362

Which is not a raw material for photosynthesis

- A. Amino acid
- B. Water
- C. CO₂
- D. None

ANSWER: A

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Practice Questions
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Question 363

The plant tissue responsible for translocation of photosynthesis products is



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- A. Phloem
- B. Tracheid
- C. Xylem D. Root

ANSWER: A

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Question 364

The prokaryotes are largely nonmotile except few one with

- A. Flagellin protein
- B. Microtubules
- C. Tubulin D. Cilia

ANSWER: A

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Question 365

The cilia and flagella are motile organs in simple eukaryotes containing

- A. Flagellin, ciliatin
- B. Tubulin , microtubules
- C. Tubulin, Flagellin D. Flagellin

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ANSWER: B

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Question 366

Which of these living inclusions has the acronym, Power-House

- A. Nucleus
- B. Mitochondrion
- C. Golgi complex
- D. Chloroplast

ANSWER: B

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Question 367

- B.
- C.
- D.

ANSWER:

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Question 369

The classification of organisms on a
2- kingdom basis was by

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A. Linnaeus

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(1735) B.

Haeckel

(1866)

C. Copeland

(1928) D.

Woese (1990)

ANSWER: A

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Question 368

Pick the ODD one o as
Characteristics of living things

- B. Reproduction
C. Respiration
D. Irritability

ANSWER: Death

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Question 370

The 5- Kingdom
classification system
includes

- A. Monera/Bacteria, Protista, Fungi, Plantae, Animalia
- B. Algae, Bryophyta, Fungi, Plantae, Animalia
- C. Blue-green algae, Bacteria, Fungi, Plantae, Animalia
- D. None

ANSWER: A

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Question 371

A persistent, directional
change in a set of
character states,
resulting in a

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ANSWER: C

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Question 372

Evolution occurs at the
----- level

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- A.
Species
- B.
Family
- C. Cellular
- D. Population

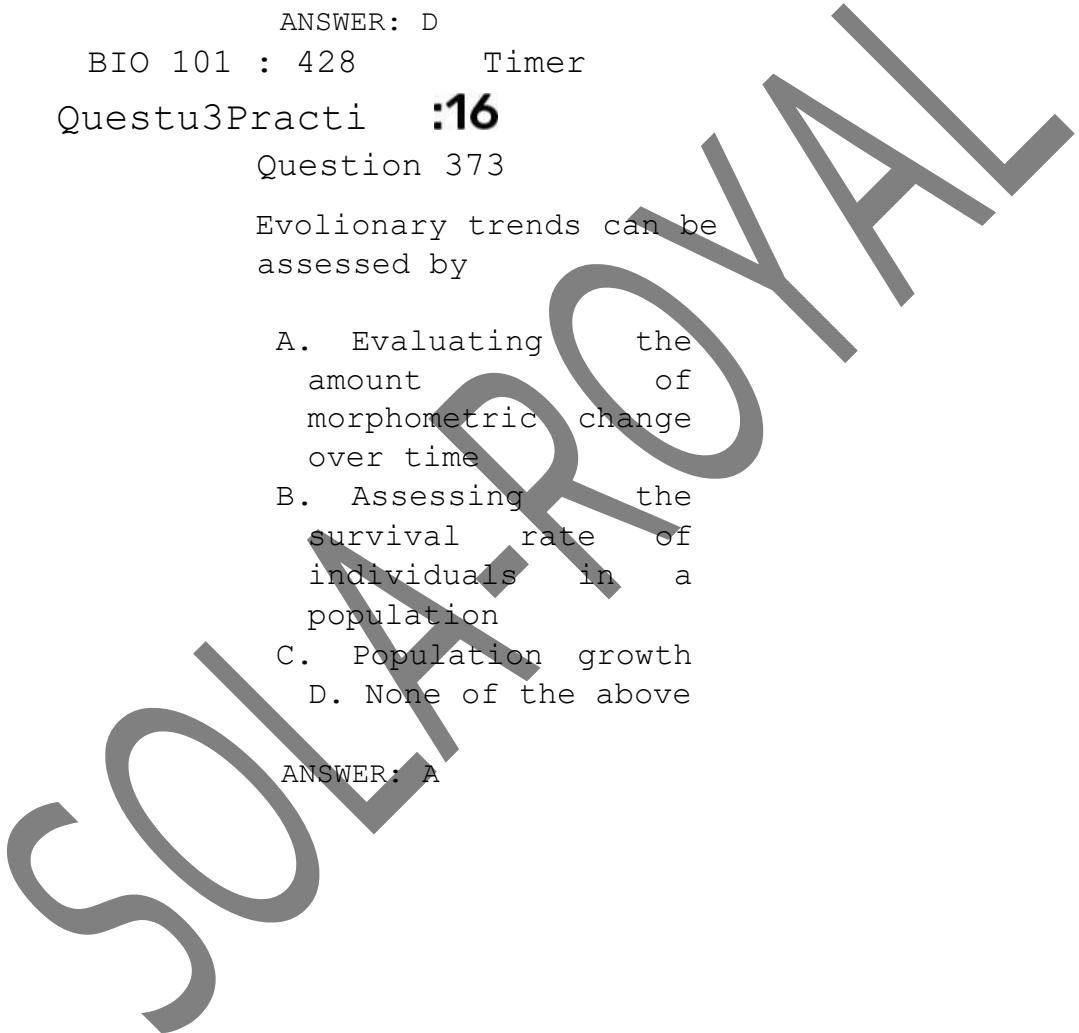
ANSWER: D

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Questu3Practi :16

Question 373

Evolutionary trends can be assessed by



- A. Evaluating the amount of morphometric change over time
- B. Assessing the survival rate of individuals in a population
- C. Population growth
- D. None of the above

ANSWER: A

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Question 374

Which of these is not an example of retrogressive evolution in plants

- A. Derivation of fungi from algal ancestors as a result of loss of chlorophyll,
- B. The development of structurally simplified types of flowers from more elaborate and more complex flowers
- C. Change from aotrophic nature to parasitic mode of nutrition in

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parasitic Cusca
due to loss of
chlorophyll

D. Development of
fonds into roots

ANSWER: D
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Question 375

Which of the following
statements on Evolion
is incorrect

- A. Various organisms have evolved in the past, some extinct and many are still existing
- B. it yields new groups of plants and animals, advances very slowly and requires millions of years

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- to produce new taxa
C. Evolution proceeds either on progressive or on retrogressive lines.
D. Progressive and retrogressive evolution occurs interchangeable

ANSWER: D

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Question 376

----- is the major component of depot fat

- B. Sphingolipid
C. Glycerol-3-
Phosphate D.
Acylglycerols

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ANSWER: D

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B. Sphingolipid

C. Glycerol-3-

Phosphate

Acylglycerols

D.

ANSWER: D

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Question 377

_____ is
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Question 378

Phosphatidyl choline is an e
of _____

B. Sphingolipid

C. Phospoglyceride

s D. Acylglycerols

ANSWER: C

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Question 379 The

following are non

saponifiable

lipids except _

- B. Steroids
- C. Prostaglandi
- ns D. Terpenes

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ANSWER: A

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Question 380

Glamate is a _

- A. Acidic amino acid
- B. Non polar amino acid
- C. Basic amino acid D. Polar uncharged amino acid

ANSWER: A



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Question 381

Serine is a-----

- A. Acidic amino acid
- B. Non polar amino acid
- C. Basic amino acid D. Polar uncharged amino acid

ANSWER: D

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Question 382

In 1931, a German scientist, -----invented electron microscope which can magnify as much as million times.

- A. Isaac Ruska
- B. Anton Ruska C. Ernst Abbe
- D. Ernst Ruska
- E. Ernst Hooke

ANSWER: D

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Question 383

What is the major setback of electron microscope?

- A. Inability to focus well
- B. The use of electron as its source of light
- C. Inability to observe living cells
- D. The big nature of the microscope
- E. All of the above

ANSWER: C

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Practice
Questions

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Question 384

The part of Microscope used to change focus on one eyepiece so as to correct for any difference in vision between your two eyes is called....

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- A. Objective Lens
- B. Diopter Adjustment
- C. Eye piece/ocular lens
- D. Coarse Adjustment
- E. Fine Adjustment

ANSWER: B

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Question 38.

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Question 385

----- connects the
eyepiece to the
objective lenses.

- A. Pillar
- B. Body tube (Head)
- C. Coarse Adjustment
- D. Fine Adjustment E. Pipe

ANSWER: B

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Practice
Question 162:51
Question

Question 387

----- fine tunes the focus
and increases the detail of
the specimen.

- A. Eye piece/ocular lens
- B. Objective Lens
- C. Coarse Adjustment
- D. Diopter Adjustment
- E. Fine Adjustment

ANSWER: E

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Question 388

The empirical formula of most carbohydrates is _

- A. CHOn
- B. CnH20
- C. C(H2O)n
- D. (CH2O) n
- E. CH30

ANSWER: D

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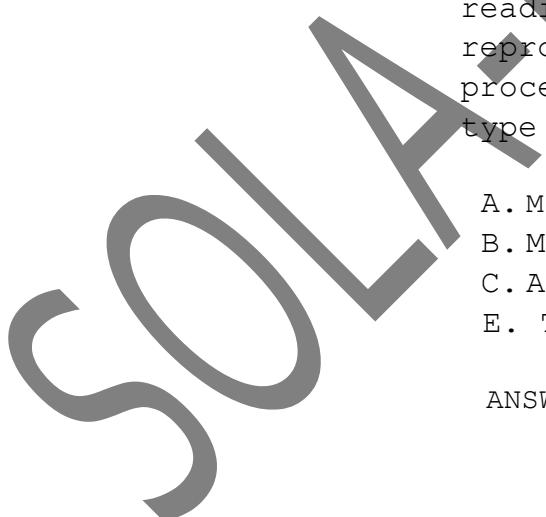
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Question 389

Gametogenesis is a process whereby living organisms set aside half of their genome in readiness for sexual reproduction. This process is aided by what type of cell division?

- A. Mitosis
- B. Meiosis
- C. Anaphase D. Zygosis
- E. Telophase

ANSWER: B





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**Practice
Questions**

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Question 390

What is the main distinction between Mitosis and meiosis?

- A. Chromosomes involved are most distinct at metaphase
- B. Spindle fiber formation from both poles to enact anaphase movement
- C. Chromosomes involved are bi-stranded

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- D. The pairing of homologous chromosomes to form bivalents
- E. They are the same

ANSWER: B

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Question 391

The number of chromosomes per nucleus of the product of meiosis is -----number?

- A. Diploid
- B. Somatic

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- C. C.
- Double
- D.
- Haploid
- E.
- Quadrip
le

ANSWER: A

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Question 392

Identify the odd one o of
the following

- A. Mation
- B. Genetic drift
- C. Gene migration
- D. Speciation E. None

ANSWER: A

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Question 393

A typical chromosome
with two equal arms
is called —
chromosome?

- A. Giant
- B. Telocentric
- C. Metacentric D. Pericentric
- E. Centromere

ANSWER: B

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Question 394

In microscopy, the microscope must accomplish the following tasks. It must:

- A. Produce a magnified image of the specimen
- B. Separate the details in the image
- C. Provide only the fine subcellular structures of interests.
- D. Render the details visible to the human eye or camera

ANSWER: E

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Question 395
The fine structure of the
cell can be seen with the
A. naked eye
B. light microscope
C. phase contrast microscope

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- D. electron microscope
- E. confocal microscope

ANSWER: A

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Questions
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Question 396

Which part of the microscope changes the magnification of the objective lens

- A. stage
- B. Iris diaphragm
- C. condenser

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- D. rotating nosepiece
- E. fine adjustment knob

ANSWER: A



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Question 397

Which of the following solution can be used to clean the microscope?

- A. Alcohol
- B. mixture of diethyl ether and alcohol
- C. methanol
- D. acetone
- E. all of the above

ANSWER: B

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Question 398

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Which of these is the best way to care for a microscope?

- A. Cell enlargement
- B. Cellular content partitioning
- C. Cell differentiation
- D. Cell division
- E. None of the above

ANSWER: B

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Question 399

Cytokinesis means _

- A. Cell enlargement
- B. Cellular content partitioning
- C. Cell differentiation
- D. Cell division
- E. None of the above

ANSWER: B

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Question 400

The two types of light microscope are _____ and _____

- A. complex and compound
- B. simple and complex
- C. simple and compound D. infra red and visible

ANSWER: A

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Question 401

The haploid number of chromosome in man is _____

- A. 46
- B. 26
- C. 43
- D. 23
- E. 13

ANSWER: D



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Question 402

The general believe is that life originated from

- B. Ocean
- C. Thunder D. Mud
- E. Nothing

ANSWER: B

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Question 403

Dinosaurs went extinct during the

era

- A. Paleozoic
- B. Cretaceous C. Triassic
- D.
- Ordovicia
- n E.
- Jurassic

ANSWER: E

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Question 404



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The study of Fossils
is known as

-
- A. Fissiology
 - B. Ornithology
 - C. Paleontology
 - D. Biology
 - E. Archeology

ANSWER: E

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Question 405

The most acceptable theory of the cause of dinosaurs extinction is

- A. Climatic changes
- B. Dinosaurs were unable to evolve quickly as the plants they were eating
- C. Competition with emergence of small scavenging mammals and birds
- D. A giant asteroid crashing to earth

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causing tremendous
amount of dust

- E. Dinosaurs were too
slow for other
animals

ANSWER: D

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Question 406

- B.
c.
D.

ANSWER:

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Question 407

Evolion leads
to _____ -

- A. Specialization
- B. Cephalization
- C. Complexity in body system
- D. Speciation
- E. All of the options

ANSWER: D

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Question 408

New species are formed through

- A. Reproductive isolation only
- B. Reproductive and geographical isolation
- C. Geographic isolation only
- D. None of the above

ANSWER: C

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Question 409

Cephalization does not occur in

- A. Echinoderms
- B. Arthropods

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- C. Cephalochordates
- D. Annelids
- E. All of the above

ANSWER: A

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ANSWER:

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The energy producing orga
the cell is_____

- A. Mitochondria
- B. ATP
- C. Nucleus
- D. Ribosome
- E. None of the above

ANSWER: A

Question 412



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**Practice
Questions**

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Question 411

Animal cell lacks cell wall
and chloroplasts b contains

- A. Centriole
- B. Plastids
- C. Chlorophyll
- D. Centrihole E. None of the above

ANSWER: A

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Question 413

As the cell volume
increases, so does the
need for increase in



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- A. Transport of nutrients and wastes
- B. Rigidity and pigmentation
- C. Number of centriole and meiosis
- D. Cell membrane and Death
- E. None of the above

ANSWER: D

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Question 414

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Ribosomes are produced in the

-
- A. Endoplasmic recticulum
 - B. Centriole
 - C. Nucleus
 - D. Cell membrane

ANSWER: A

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Question 415

Proteins are synthesized in the

-
- A. Endosoplasmic reticulum
 - B. Smooth Endoplasmic Reticulum
 - C. Rough Endoplasmic Reticulum
 - D. Nucleolus
 - E. None of the above

ANSWER: C

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Question 416

The plant cell lacks-----

- A. Cell membrane
- B. Centrosomes
- C. Ribosome
- D. Cytoplasm
- E. All of the above

ANSWER: B

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Question 417

Primates includes
all except

- A. Lemurs
- B. Apes
- C. kangaroo
- D. Humans

ANSWER: C

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Question 418

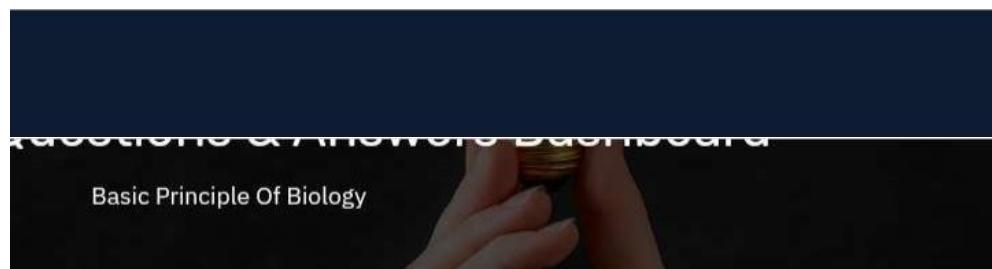
Which of the following did not occur on the evolutionary road leading to humans?

- A. Hand modification that increased manipulative skills
- B. Brain expansion and reorganization
- C. Shift from omnivorous to specialized eating habits
- D. Less reliance on smell, more on vision

ANSWER: C



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Question 420

The cell wall found in plant is tough due to the presence of ___

- A. Cellulose
- B. Chlorophyll
- C. Centromere
- D. Vacuole

ANSWER: A

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Question 419

Evolutionary trend in animal symmetry transcends from

- A. Asymmetry-Bilateral-Radial
- B. Chlorophyll
- C. Centromere
- D. Vacuole

ANSWER: A

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Question 421

The scanning electron microscope (SEM) can be used to view

- A. internal structure of specimen
- B. both live and dead specimens
- C. external architecture of specimens
- D. live specimens
- E. All of the above

ANSWER: C

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Question 422

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Which part of the light microscope is used for focusing light through specimen to increase illumination?

- A. Rotating nosepiece
- B. Condenser
- C. Condense
- D. Lens
- E. Mirror

ANSWER: E

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Question 424

Both plant and animal
cells contains

- A. Cell membrane, mitochondria, plastids, nucleus and cytoplasm
- B. Cell membrane, mitochondria, Golgi apparatus, endoplasmic reticulum and cytoplasm
- C. Cell membrane, mitochondria, Golgi apparatus, endoplasmic reticulum and cytoplasm

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- D. Cell membrane,
mitochondria,
Golgi
apparatus,
endoplasmic
reticulum and
cytoplasm
- E. Cell membrane,
mitochondria,
ribosomes,
chloroplast and
cytoplasm

ANSWER: C

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Question 425

- B.
- C.
- D.

ANSWER:

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Question 426

The phenotype or an organism is a product of interaction between the organism - and

-
- A. Genome and chromosome
 - B. Chromosome and DNA
 - C. Genome and environment
 - D. Gene and nucleus

ANSWER: B

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Question 427

Fats and lipids are produced by----

- A. Cell membrane
- B. Cytoplasm
- C. Smooth Endoplasmic Reticulum
- D. Rough Endoplasmic Reticulum
- E. All of the above

ANSWER: C

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Question 428

Biology is the study
of

- A. Plants
- B. Plants and Animals
- C. Living things
- D. Plants, Animals and Viruses E.
- None of the above

ANSWER: C

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