

SET-1

Revision Test-2019

Class-X

Subject : Life Science

Time : 3 Hrs.

Full Marks : 90

Group-A

I. Choose the correct options :

1x15=15

1.1 The enzyme found in the tears is

- a) Amylase (b) Maltase
- c) Lysozyme (d) Sucrase

1.2 Myopia can be corrected by using

- a) Convex lens (b) Concave lens
- c) Normal lens (d) Cylindrical lens

1.3 Rhodopsin is found in

- a) Cone cell (b) Rod cell
- c) Carrier cell (d) Somatic cell

1.4 The N_2 base which is not found in DNA is

- a) Uracil (b) Adenine
- c) Cytosine (d) Thymine

1.5 Where does crossing over take place?

- a) Amitosis (b) Mitosis
- c) Meiosis (d) None

1.6 The process by which spermatozoa are formed is

- a) Mitosis (b) Amitosis
- c) Meiosis (d) None

1.7 In Prokaryotic cell instead of mitochondria there is

- a) Informosome (b) Ribosome
- c) Mesosome (d) Polysome

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1.8 The Phenotypic ratio of F_2 generation in Mendal's monohybrid cross is.

- a) 1:2:1 (b) 3:1 (c) 9:3:3:1 (d) 1:1

1.9 Who first used the term gene?

- a) Mendel (b) Johannsen
c) Bateson (d) Morgan

1.10 Dominant character of pea plant is

- a) Apical bud (b) Wrinkled seed
c) Yellowcotyledon (d) Yellow fruit.

1.11 Who first used the term "Struggle for existence"

- a) Darwin (b) Lamarck
c) Mendel (d) Weisman

1.12 Platypus in the connecting link between

- a) Fish and reptile (b) Reptile and mammal
c) Reptile and bird (d) Bird and mammal

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1.13 Which of the following is not a homologous organ.

- a) Wings of bird (b) forehinb of horses
c) wings of insects (d) wings of bat

1.14 Viviparous germination is found in

- a) Sundari (b) Rhizophora
c) Cactus (d) Pea

1.15 Which of te following is related to biomagnification

- a) Phosphate (b) Detergent
c) DDT (d) CFC

Group-B

2. Answer any 21 questions out of 26 questions. $1 \times 21 = 21$

Fill in the blanks withs with proper words (any five)

2.1 The three layered covering of human brain is called _____

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- 2.2 Acetyl choline is a type of _____
- 2.3 The unit of Asexual reproduction is _____
- 2.4 The permanent changes in gene and chromosome is called _____
- 2.5 The part could conserve water in the body of cactus is _____
- 2.6 Radium is a _____ element.

State whether the following statement are true or false (any five) 1x5=5

- 2.7 Vagus nerve is a mixed nerve
- 2.8 Jim corbett National park situated at Jharkhand.
- 2.9 Phylloclade is present in Mangrove plant.
- 2.10 The women are always homogametic in case of human being.
- 2.11 Autosome determines the sex of organism

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2.12 Thyroxine is a iodine based hormone.

Match the words in column-A with those which are most appropriate in column B (any five) 1x5=5

Column A	Column B
2.13 Fibrin	a) Air pollutant
2.14 Thromboplastin	absent in blood
2.15 Coccyx	of human being
2.16 Maintains buoyancy	
2.17 Oval shaped RBC	
2.18 -CFC	(f) Swim bladder
	(g) Camel
	(b) use in Aerosol spray
	(c) Plasma protein
	(d) Haemophilia
	(e) Vestibular organ

Answer in a single word or in a single sentence any six.

1x6=6

2.19 Name the largest part of human brain.

2.20 Name the locomotory organ of amoeba *pseudopodia*

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- 2.21 Name the term used for human locomotion
- 2.22 In which state of cell division spindle body formed
- 2.23 Name one disease caused by sex linked gene
- 2.24 Write the name of one vestigial organ present in human skeleton system.
- 2.25 Write the name of two chemical fertilizers. Which increases nitrogen in soil.
- 2.26 Write the example of In-situ conservation.

Group-C

3. Answer any 12 questions in 2-3 sentences out of 17 questions given below : $2 \times 12 = 24$

- 3.1 Write two differences between tropic and nastic movement. <http://www.wbbseonline.com>
- 3.2 Name one hormone secreted from anterior lobe and posterior lobe of pituitary gland.

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- 3.3 Write the role of flight muscle in flying bird.
- 3.4 Why ACTH is called tropic hormone.
- 3.5 What is cell cycle?
- 3.6 What are the relation between cell division and growth?
- 3.7 What is back cross?
- 3.8 Why does haemophilia disease mainly express in case of male?
- 3.9 State Mendel's laws of Independent Assortment
- 3.10 What do you mean by homologous organ? Give example.
- 3.11 Mention two physiological adaptation in cactus.
- 3.12 What is meant by "Inheritance of acquired character"?
- 3.13 Write the characteristics of RBC of camel.

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3.14 Write two importance of nitrogen cycle.

3.15 What is the cause of biological magnification.

3.16 Write the name of two exotic plants.

3.17 What is acid rain?

Group-D

4. Answer 6 question or their alternative given below.

4.1 Draw a well labelled diagram of vertical section of human eye and label the following parts. 3+2

- a) Cornea (b) Lens
c) Vitreous humor (d) Retina

Or

Draw a neat diagram of neurone and label the following parts. 3+2

- a) Node of Ranvier (b) Axon Hillock
c) Dendron (d) Dendrite

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4.2 What is tropic movement? Describe the different types of tropic movement found in plants. 2+3

Or

Write the application of Auxin in horticulture and agriculture. 2+3

4.3 What is mitosis cell division? Where does mitosis take place? Write the significance of mitosis.

1+1+3

Or

What is alternation of generation? Write three differences between sexual and asexual reproduction. 2+3

4.4 What is Genetics? Genetic counselling is very important to get rid of having diseased child before marriage. Explain it. 2+3

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Or

What is dihybrid cross? Describe dihybrid cross with example.

- 4.5 What is a daptation? State the role of flight muscle and pecten in the volant adaptation in pigeon.

Or

Discuss the theory proposed by Darwin in view of evolution.

- 4.6 What do you understand by nitrogen fixation? Write the role of bacteria in nitrogen fixation.

Or

What is pollution? Write the causes and effect of water pollution

x ——— x