

SET-2

Revision Test-2019

Class-X

Subject : Life Science

Time : 3 Hrs. 15

Full Marks : 90

Group-A

I. Choose the correct options : 1x15=15

1.1 The process of union of two identical gamete is.

- a) Isogamy (b) Anisogamy
- c) Oogamy (d) Syngamy

1.2 Sexual dimorphism is found in

- a) Cockroach (b) Earthworm
- c) Amoeba (d) Plasmodium

1.3 The part of onion which takes part in vegetative reproduction is

- a) Bulb (b) Corm
- c) Rhizome (d) Tuber

1.4 Who proposed the theory of use and disuse of organs?

- a) Darwin (b) Muller
- c) Lamarch (d) Devries

1.5 The oldest fossil of horse is

- a) Plihippus (b) Merichippus
- c) Meshippus (d) Ehippus

1.6 The waggle dance of honey bee is similar to a digit in English language.

- a) 4 (b) 8 (c) 6 (d) 3

1.7 The following causes nitrogen fixation

- a) Volvox (b) Anabaena
- c) Amoeba (d) Yeast

1.8 Which is not a Sanctuary?

- a) Jalapara (b) Gorumar
- c) Kaziranga (d) Periyar

1.9 The sample conserved in cryopreservation

- a) -190°C (b) 0°C
- c) 10°C (d) None of these

1.10 The cells that help in dim light vision is

- a) Cone cells (b) Rod cells
- c) Carrier cells (d) Supporting cells

1.11 Which endocrine gland secretes ACTH?

- a) Adrenal Gland (b) Thyroid Gland
- c) Pituitary Gland
- d) Islets of Langerhans of Pancreas

1.12 The hormone which is not released from ovary

- a) Oestrogen (b) Progesterone
- c) Relaxin (d) Androgen

1.13 The phase of cell cycle during which cell does not divide is

- a) G_1 phase (b) G_2 phase
- c) 's' phase (d) G_0 phase

1.14 The function of cell plate formation is performed by

- a) Golgi bodies (b) Ribosomes
- c) Mitochondria (d) Endoplasmic reticulum

1.15 Mitotic cell division occurs in

- a) Germ Mother cell (b) egg
- c) Somatic cell (d) Sperm

Group-B

2. Answer any 21 question out of 26 questions.

Fill in the blanks with proper word (any five). 1x5=5

2.1 Images are formed in _____ eye.

2.2 Organ of corti is found in _____ of ear

2.3 The nuclear division is called _____

2.4 The fertilization process which occurs in angiosperm is _____

2.5 The connecting link between Gymnosperm and Angiosperm is _____

2.6 Corbett national park is situated in _____

State whether the following statements are true or false.
(any five) 1x5=15

2.7 SO_2 , NO_2 and water vapour present in air causes acid rain.

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2.8 CO_2 is a green house gas

2.9 The leaf of cactus modified into spine to check transpiratory.

2.10 In human female XY sex chromosome found

2.11 Carrier is not required in cross pollination.

2.12 Hypoglossal is a type of motor nerve.

Match the word in column A with those which are most appropriate in column B (any five) 1x5

Column A	Column B
2.13 Gir Sanctuary	(a) CO_2
2.14 Green House Gas	(b) Crossing over
2.15 Meiotic cell division	(c) Karl von Fritsch
2.16 Bee dance	(d) Contractile vacuole
2.17 Amoeba	(e) Pneumatophore
2.18 Opuntia	(f) Asiatic lion
	(g) Singalila

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Answer in single word or in a single sentence (any six) 1x6

2.19 Which type of movement is found in Sundew?

2.20 Write the chemical name of auxin.

2.21 In which stage of cell division spindle body is formed

2.22 Why does thalassaemia patient suffer from Anaemia

2.23 Name one disease caused by sex linked gene.

2.24 Who did first proposed the term evolution?

2.25 Give an example of living fossil in plants.

2.26 Write the full name of DDT

Group-C

3. Answer any 12 questions in 2-3 sentences out of 17 question given below. 2x12=24

3.1 What is bio-magnification?

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3.2 Write the differences between In-Situ conservation and Ex-Situ conservation.

3.3 Write two problems of population explosion

3.4 What do you mean by analogous organ? Give example.

3.5 What do you mean by interspecific struggle? Give example.

3.6 Why does haemophilia disease mainly express in case of male

3.7 What are vestigial organs? Give example.

3.8 What do you understand by 'use and disuse' theory? Give example

3.9 Write two differences between R.N.A and DNA

3.10 Write two differences between homologous and analogous organs

3.11 What is genotype and phenotype

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3.12 What is test cross? Give example.

3.13 Distinguish between prokaryotic cell and Eukaryotic cell.

3.14 What is the site of secretion of insulin? Mention one of its function.

3.15 Why are the hormone secreting glands called endocrine glands?

3.16 Write two differences between. Rod cells and Cone cells.

3.17 Why does night blindness occur due to deficiency of Vitamin A?

Group-D

4. Answer 6 question or their alternative given below.

4.1 Draw a neat diagram of vertical section of human eye and label the following parts.

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

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Or

Draw a neat diagram of neuron and label the following parts.

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

4.2 What is nastic movement? Describe the different types of nastic movement found in plant. 1+4

Or

State the site of secretion and function of Auxin hormone. <http://www.wbbseonline.com> 2+3

4.3 What is meiosis cell division? Why meiosis is called reduction division? Write two significance of meiosis. 1+2+2

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4.6 Discuss three harmful effects of soil pollution.

What is eutrophication.

3+2

Or

Explain how the increased population change the atmosphere and creates the problem of scarcity food.

x ——— x

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Or

What is vegetative reproduction? Write two advantage and two disadvantage of vegetative reproduction.

4.4 State and explain Mendel's Laws of heredity.

$2\frac{1}{2} + 2\frac{1}{2}$

Or

What is monohybrid cross? Describe Mendel's monohybrid cross experiment with checker board.

1+2+2

4.5 Which soil is called physiologically dry soil and why? Write three xerophytic adaptive feature of cactus.

2+3

Or

State and explain the theory of Lamarck. 5

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