

KRP MATRIC HIGHER SECONDARY SCHOOL, SANKARI WEST

FULL PORTION TEST - 1

12th Standard

Biology

ZOOLOGY

Date : 06-Jan-23

Reg.No. :

Exam Time : 03:00:00 Hrs

Total Marks : 70

15 x 1 = 15

PART - I. CHOOSE THE CORRECT ANSWER

- 1) Starfish shown _____ type of regeneration.
(a) epimorphosis - reparative (b) epimorphosis (restorative) (c) morphallaxis (d) paedogenesis
- 2) Identify the correct Sequence of reproductive events in human beings.
(a) Insemination, implanatation Fertilization Parturition and Placetation
(b) Implanatation Fertilization, Insemination, Parturition and Placetation
(c) Implanatation, Insemination, Fertilization, Parturition and Placetation
(d) Insemination, Fertilization, Implanatation, Parturition and Placetation
- 3) Hormones secreted by placenta to maintain pregnancy are
(a) hCG, hPL, progesterone, estrogen (b) hCG, hPL, estrogen, relaxin, oxytocin
(c) hCG, hPL, progesterone, prolactin (d) hCG, progesterone, estrogen, glucocorticoids
- 4) Given below are the basic steps in IVF treatment cycle. Select the proper sequence.
(i) Ovarian stimulation
(ii) Egg retrieval
(iii) fertilization
(iv) Embryo, culture
(v) Embryo transfer
(a) (ii) - (iv) - (v) - (i) - (iii) (b) (i) - (iii) - (ii) - (v) - (iv) (c) (i) - (ii) - (iii) - (iv) - (v) (d) (ii) - (i) - (iii) - (v) - (iv)
- 5) Pick out the correct statement
(i) Karyotyping helps in gender identification
(ii) Holandric genes are located on X-chromosome
(iii) Trisomy-21 is an allosomal abnormality
(iv) Cooley's anaemia is an autosomal recessive disorder
(a) i, iii, iv are correct (b) ii and iii are correct (c) i and iv are correct (d) iv only correct
- 6) Human genome is approximately said to have _____ base
(a) 3×10^8 bp (b) 3.4×10^9 bp (c) 3.2×10^7 bp (d) 3×10^9 bp
- 7) Okazaki segments are formed during
(a) transduction (b) transcription (c) replication (d) translation
- 8) Choose the correct sequence
(a) Ordovician, Triassic, Permian, Cretaceous (b) Devonian, Permian, Cretaceous, Cambrian
(c) Devonian, Triassic, Cretaceous, Ordovician (d) Silurian, Devonian, Permian, Triassic
- 9) Assertion (A): Spleen is a primary lymphoid organ
Reason (R): Primary lymphoid organs trap antigen and destroy them.
(a) Both (A) and (R) are true. (R) explains (A) (b) (A) is true (R) is false (c) Both (A) and (R) are false
(d) (A) is false (R) is true
- 10) Which one is not used in the production of yoghurt?
(a) Streptococcus lactis (b) Streptococcus thermophilus (c) Lactobacillus bulgaricus (d) Acetobacter aceti

- 11) Identify those proper sequence of ELISA testin
(a) Coating → Blocking ~ Detection → Read out (b) Detection → Read out → Coating → Blocking
(c) Read out → Coating → Detection → Blocking (d) Blocking → Detection → Read out → Coating
- 12) Species occurring in different geographical areas are called as
(a) Sibling (b) sympatric (c) Allopatric (d) Neopatric
- 13) Identify the incorrect statement.
(i) EcoSan toilets is a sustainable way for handling human excreta by using dry composting toilets
(ii) It reduces waste water generation
(iii) It is based on recovery and recycling of nutrients from excreta
(iv) EcoSan toilets are used in several parts of India and Srilanka.
(a) i and ii only (b) iii and iv only (c) all the above (d) none of the above
- 14) The concept of Red list was noted in _____
(a) 1953 (b) 1963 (c) 1973 (d) 2003
- 15) _____ is not a auto immune disease.
(a) Rheumatoid arthritis (b) Multiple sclerosis (c) Allergy (d) Addison's disease

PART - II. WRITE ANY 6 QUESTIONS. Q.NO 24 IS COMPULSORY

6 x 2 = 12

- 16) Differentiate foeticide and infanticide
17) Why tRNA is called an adapter molecule?
18) What are holandric genes?
19) Define gametogenesis.
20) A person is infected by HIV. How will you diagnose for AIDS?
21) What is Acclimatisation?
22) 'Red data book'-What do you know about it?
23) How does recycling help reduce pollution?
24) What are interferons? Mention their role.

PART - III. WRITE ANY 6 QUESTIONS. Q.NO 33 IS COMPULSORY.

6 x 3 = 18

- 25) What is parthenogenesis? Give two examples from animals.
26) Differentiate between divergent evolution and convergent evolution with one example for each.
27) Amniocentesis, the foetal sex determination test, is banned in our country, Is it necessary? Comment.
28) What is genetically engineered Insulin?
29) Name and explain the type of barriers which involve macrophages.
30) Write notes on the following:
a. Eutrophication
b. Algal Bloom

- 31) Differentiate Natality and Mortality
32) What are called endangered species? Explain with examples
33) Differentiate between:
Humoral and CMI immunity

PART - IV. WRITE ALL THE QUESTIONS

5 x 5 = 25

- 34) a) Differentiate between r-selected species and k-selected species
(OR)
b) Point out the effects of Noise pollution
- 35) a) Describe the stages of Sewage treatment process
(OR)
b) Explain the steps involved in the production of recombinant hGH
- 36) a) Explain Urey & Miller's experiment.
(OR)
b) How primary immune response differ from secondary immune response?

37) a) Write elaborately about the following Mendelian disorders.

(a) Thalassemia (b) Albinism

(OR)

b) List the salient features of genetic code.

38) a) Describe the spermatogenesis with diagram.

(OR)

b) Write in detail about cervical cancer

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