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## VNR12Bio

Virudhunagar District Second Revision Examination - 2024



Time: 3.00 Hours

Standard 12 **BIOLOGY** Part - I (Bio-Botany) Section-1

 $8 \times 1 = 8$ 

Marks: 70

Marks: 35

Answer all questions.

1) Size of pollen grain in myosotis

- b) 20 micrometer c) 200 micrometer a) 10 micrometer
- d) 2000 micrometer 2) In ...... the single gene affects multiple traits and alters the phenotype of the organism
- c) Epistatic d) Hypostatic a) Lethal genes b) Pleiotropy
- 3) Which of the following sentences are correct
  - 1. The offspring exhibit only parental combinations due to incomplete linkage
  - 2. The linked genes exhibit some crossing over in complete linkage
  - 3. The separation of two linked genes are possible in incomplete linkage
  - 4. Crossing over is absent in complete linkage
- a) 1 and 2
- b) 2 and 3
- d) 1 and 4

d) Mustard

- 4) Match the following
  - 1) Ti plasmid
- i) Antibiotics
- Agrobacterium tumefaciens 2) Biolistic method ii) Agrovacional Tungston particles iii)
- 3) Lac z
- iv) B-galactosidase 4) Kanamyein
  - 2 3 1
- iii ii İν a) i
- b) İV iii İ ii
- c) iii iv i
- iv iii ii d)
- 5) Pedogenesis refers to
  - c) population a) Water b) fossils d) soil
- 6) Significance of food web is/are
  - a) it does not maintain stability in nature b) it shows patterns of energy transfer
  - d) b and c c) it explains species interaction
- 7) Jaya and Ratna are the semi dwarf varieties of
- a) Wheat b) Rice c) Cow pea
- 8) Which of the following matches is correct
  - a) Palmyra
- Nature of Brazil Abundant in Kanya Kumari
- b) Saccharum d) Palmyra sap
- Natural Sweetener
- c) Stevieo
- Fermented to give ethanol
  - Section-2

Answer any four of the following:

- 9) Differentiate primary introduction from secondary introduction
- 10) What are the objectives of clean development mechanism
- 11) Give any one example for ecological equivalents
- 12) What do you mean Embryoids?
- 13) Write short notes on Sonara 64
- 14) What is endothelium?

Section-3

Answer any three of the following. Q.No. 19 is compulsory.

3x3=9

4x2 = 8

- 15) Write shrot note on pollen kitt.
- 16) P  $2n = 4x = 28 \times 2n = 2x = 14$

G A 
$$n = x = 7$$

A) Write the state of gamete

$$2n = 3x = 21$$

- B) Write the name of plant
- 17) Write any three disadvantages of Bt cotton
- 18) What is referred to as biological indicutors? Give an example.
- 19) Which one of the chemical substance is responsible for the yellow colour of turmeric? Mention the uses of that chemical substance.

VNR12Bio Section-4 Answer all the questions. 2x5 = 1020) a) What are millets? What are its Types? Give an example for each type add a note on its one uses b) List out the types of Ecosystem with examples. 21) a) Differentiate continuous variationwith discontinuous variation. (OR) b) Draw and label the T.S. of mature anther. Part - I (Bio-Zoology) Marks: 35 Section-1 Answer all questions.  $8 \times 1 = 8$ 1) The mode of sexual reproduction in bacteria is by a) formation gametes b) Endospore formation c) conjugation d) Zoospore formation 2) Right to clean water is a fundamental right, under the Indian constitution a) Article 12 b) Article 21 c) Article 31 d) Article 41 3) Match the following and choose the correct combiantion from the options given below. Column 1 Column 2 1. Lion and deer A) Mutualism B) Commensalism
C) Parasitism
D) Predation
C) Parasitism
3. Birds compete with squirels for the squire squi 3. Birds compete with squirels for nuts b) A-3, B-1, C-4, D-2, E-5 a) A-4, B-5, C-2, D-3, E-1 c) A-2, B-3, C-1, D-5, E-4 d) A-5, B-4, C-2, D-3, E-1 4) The purpose of biological treatment of waste water is to a) Reduce BoD b) Increase BoD c) Reduce sedimentation d) Increase sedimentation 30 year old women has bleedy diarrhoea for the past 14 hours, which one of the following organism is likely to cause this illness? a) streptococuus pyogene b) clostridium difficile c) shigella dysentriae d) salmonella entertidis 6) The first life on earth orginated c) in water d) on mountain a) in air b) on land 7) ABO Bloodgroup in man in controlled by a) Multiple alleles b) Lethalgenes d) y-linked genes c) sex linked genes 8) Which one of the following groups includes sexually transmitted disease caused by bacteria only? a) syphillis, gonorrhoea and candidiasis b) syphillis, Chlamydiasis and gonorrhoea c) syphillis, gonorrhoea, and trichomniasis d) syphillis, trichomonisasis and Pediculosis. Section-2 4x2 = 8Answer any four of the following questions. 9) What is the composition of semen? 10) Classify the adaptive traits found in organisms 11) What is Parthenogensis? Give an example? 12) XXY - male write the short notes about this syndrome. 13) When does antibotic resistance develop? 14) Define endenism Section-3 Answer any three of the following. Q.No. 19 is compulsory. 3x3 = 915) How does neoanderthal man differ from the modern men in appearance? 16) Name and explain the type of barries which involve macrophages? 17) What are transgenic animals? Give an example? 18) What effect can fertilizer to runoff have on an aquatic ecosystem? 19) Which method do you suggest the couple to have a body, if the male partner fails to inseminate the female or due to very low sperm count inthe ejauclats? Explain. Section-4 2x5 = 10Answer all the Questions. 20) What are the strategies to be implented in India to attain total reproductive (OR) health?

> List the common withdrawl symptoms of drugs and alcohol abuse. Kindly send me your answer keys to us - padasalai.net@gmail.com

21) Explain the major source of solid waste?

It is established that RNA is the first genetic material. Justify giving reasons.

(OR)