

Ts11Bio

Tenkasi District Common Examinations
Common Second Revision Examination - February 2023

**Standard 11**

Time: 3.00 Hours

BIOLOGY

Marks: 70

[Bio - Botany]**Part - I****8 x 1 = 8****I. Choose the correct answer:**

- 1) Identify the correctly matched pair

a) Actinomycete	-	a) Late blight
b) Mycoplasma	-	b) Lumpy Jaw
c) Bacteria	-	c) crown gall
d) Fungai	-	d) Sandal spike
- 2) The haploid number of chromosome for an angiosperm is 14, the number of chromosomes in its endosperm would be

a) 7	b) 14	c) 42	d) 28
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- 3) Who proposed five kingdom classification

a) Carl Linnaeus	b) Ernst Haeckel
c) Copeland	d) R.H. Whittaker
- 4) The pairing of homologous chromosomes on meiosis is known as

a) Bivalent	b) Synopsis	c) Disjunction	d) Synergids
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- 5) Duramen is present in

a) Inner regions of secondary wood
b) part of sap wood
c) outer region of secondary wood
d) Region of pericycle
- 6) The compound which links glycolysis and krebs cycle is

a) Succinic acid	b) Pyruvic acid	c) acetyl COA	d) Citric acid
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- 7) In unisexual plants sex can be changed by the application of

a) Ethanol	b) cytokinins	c) ABA	d) Auxin
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- 8) The Dark reaction of photosynthesis occurs in

a) Matrix	b) Grana	c) Stroma	d) cytoplasm
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Part - II**4x2=8****II. Answer any four questions:**

- 9) What is plasmid?
- 10) Define Binomial nomenclature?
- 11) Name the four whorls of the flower.
- 12) Deficiency of copper
- 13) What is photoperiodism?
- 14) What is bolting?

Part - III**3x3=9****III. Answer any three questions No. 17 is compulsory:**

- 15) What is Respiratory Quotient? RQ value of Glucose.
- 16) Write the significance of photosynthesis. any three parts
- 17) Explain Tracheids
- 18) Function of nucleus
- 19) Draw and neat label the structure of polytene chromosome.

Part - IV**2x5=10****IV. Answer all the questions:**

- 20) a) Difference between plant cell and animal cell.
(OR)
b) Write uses of Herbarium
- 21) a) Flow chart of pentose phosphate pathway (or) HMP shunt.
(OR)
b) Physiological effects of cytokinins?

I. Answer all the questions:

Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

- 1) Inflammation of Joints due to accumulation of uric acid crystalls is called as
 - a) Gout
 - b) Myasthenis gravis
 - c) Osteoporosis
 - d) Osteomalacia
- 2) Assertion (A): Large Intestine also shows the presence of villi like small intestine
Reason (R): Absorbtion of water takes place in large intestine.
 - a) Both A and R are true and R is correct explanation of A
 - b) Both A and R are true R is not correct explanatin of A
 - c) A is true But R is false
 - d) A is false But R is true.
- 3) Erythroblastosis foetalis is due to the destruction of
 - a) Foetal RBCs
 - b) foetus suffer from athero sclerosis
 - c) Foetal WBCs
 - d) Foetus suffer from miña mata
- 4) A group of organism having similar traits of rank is
 - a) Species
 - b) Taxon
 - c) Genus
 - d) Family
- 5) The intensity of sound is measured in
 - a) Wave length
 - b) Intensity
 - c) Decibels
 - d) frequency
- 6) The tissue present in the living of kidney Tubutes duets and secretory portions of glands.
 - a) Squamous epithelium
 - b) Glandular epithelium
 - c) Cuboidal epithelium
 - d) Columnar epithelium
- 7) Choose the correctly matched pair
 - a) Egg layers - Brahma
 - b) Broiler types - Leghorn
 - c) Dual purpose - White plymouth rock
 - d) Orna mental - Silkie
- 8) In Breathing movements, air volume can be estimated by
 - a) Stethoscope
 - b) Hygrometer
 - c) Sphygmo manometer
 - d) spirometer

Part - II

4x2=8

II. Answer any four of the following:

- 9) What are chonocytes?
- 10) Write notes on Blood of frog.
- 11) What are the Harmful effects of food alternation
- 12) State the law of laplace?
- 13) What is vasa recta?
- 14) List three components of sericulture?

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Part - III

3x3=9

III. Answer any three questions. Question No. 19 is compulsory:

- 15) What are the primary functions of the respiratory system?
- 16) What are the common fundamental features of multicellular animals?
- 17) Write about the leg of cockroach?
- 18) Write short notes on Emphysema.
- 19) Distinguish between Arteries and veins.

Part - IV

2x5=10

IV. Answer all the questions:

- 20) a) What is an epithelium? Enumerate the characteristic features of different epithelia
(OR)
- b) List the Role of Enzymes in small intestine
- 21) a) Explain the sliding - filaments theory of Muscle contraction
(OR)
- b) Describe the life cycle of Bombyx mori.