

Board of Secondary Education Rajasthan, Ajmer

Revised Syllabus for Board Exam XII, 2021

Subject : Biology Practical

Subject Code: 42

Class : 12th

ANNEXURE - 'B'

1A- Any one of the following exercise may be given :-

- (a) Demonstration of osmosis by potato osmoscope.
- (b) Demonstration of endosmosis by raisins.
- (c) Demonstration of plasmolysis by Rhoeo discolor of Tradescantia leaf.
- (d) Demonstration of transpiration by belljar method.
- (e) Demonstration of unequal transpiration by four leaf method.
- (f) Study of rate of transpiration by Ganong's potometer.
- (g) To determine that O_2 is evolved during photosynthesis (Inverted funnel method).
- (h) To demonstrate that CO_2 is necessary for photosynthesis (Moll's experiment).
- (i) Demonstration of evolution of CO_2 in respiration.
- (j) Demonstration of R.Q. by Ganong's respirometer.
- (k) Study of Plant growth by Arc-Auxnometer.

(Any Seven)

ANNEXURE - 'C'

1B(i)- Label any eight parts of any one of the following unlabelled diagram of the organ System of human.

- (a) Digestive system
- (b) Respiratory system
- (c) Blood circulatory system
- (d) Excretory system
- (e) Human Brain
- (f) Structure of neuron

- (g) Human Eye Ball (h) Human ear
(i) Male reproductive system (j) Female reproductive system

(Any Seven)

Note :- In this exercise, the photostate copies of unlabelled diagram should be provided to student.

ANNEXURE - 'D'

1B (ii)- (a) Study of the effect of salivary amylase on digestion of starch.

(b) Test for any one of the following :-

- (i) Glucose (ii) Sucrose (iii) Starch (iv) Fat (v) Protein (Any Three)

ANNEXURE - 'E'

1A- Any one of the following exercise may be given :- **(Any Seven)**

- (a) Adaption of pollination in Maize plant.
(b) Adaption of pollination in Salvia plant.
(c) Germination of pollengrains of stigma of grass flower.
(d) Plasmid (e) Bacteriophage (f) Cosmid (g) Callus
(h) Somatic Embryo (i) Artificial seeds (j) Tansgenic plant (Bt Cotton)
(k) Autoclave (l) Laminar Air Flow Bench

ANNEXURE - 'F'

2B- Any one of the following exercise may be given :- **(Any Two)**

- (a) Morula (b) Blastula (c) Gastrula
(d) Life cycles of any one insect - **(Any Two)**
(i) Honeybee (ii) Silkworm (iii) Lac

ANNEXURE - 'G-1'

3- Spots on Botany - any three of the following exercise may be given :-

- (a) Wheat, Rice, Maize, Bajra, Gram, Pea, Mango, Banana, Apple. **(Any Five)**
(b) Mustard, Groundnut, Castor, Coconut, Sunn-hemp, Munj, Cotton. **(Any Four)**
(c) Opium, Turmeric, Heeng, Jeera, Saunf, Ajwain, Tea, Clove, Chillies, Black pepper. **(Any Seven)**

Note - **(One spot from each group)**

ANNEXURE - 'G-2'

- 3- Spots on Zoology - any three of the following exercise may be given :-
- (a) Study of Endocrine Glands of Human :- Pituitary Gland, Thyroid gland, Adrenal gland, Testis gland, Ovary gland. **(Any Three)**
 - (b) Study of Bones of Human by Modal or Diagram :- Bones of for arms, Bones of legs, Pectoral girdle, Pelvic girdle.
 - (c) Histology of different organs of Human :- T.S. of kidney, T.S. of Stomach, T.S. of Small intestine (Ileum), T.S. of lung. **(Any Three)**

Note:- **One spot from each group.**

