

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, PESHAWAR

Higher Secondary School Certificate (H.S.S.C.) Examination — 2021 (Fresh / Reappear)

BIOLOGY

Class: 12th (Inter Part-II)	Paper ref: PR – XII (A-02) (21)	Year: 2021	Medium: English
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Time Allowed: 20 Minutes

SECTION - A

Marks: 18

Note: Four choices are given against each question; fill the circle of the correct answer only. Use a black or blue ball point / marker to fill the circle. Filling more than one circle for a question will be counted as a wrong answer.

- _____ is the dominant trait about flower position in pea plant.
☐ Yellow ☐ Purple ☐ Terminal ☐ Axial
- A person with _____ blood type can receive blood from any blood type.
☐ A ☐ AB ☐ B ☐ O
- Total number of Genetic codes are _____.
☐ 63 ☐ 64 ☐ 65 ☐ 66
- Similarities in characteristics resulting from common ancestry is known as _____.
☐ Ornithology ☐ Herpetology ☐ Analogy ☐ Homology
- The random loss of alleles in a population is called _____.
☐ Mutation ☐ Selection ☐ Gene flow ☐ Genetic drift
- _____ is an immunosuppressive agent.
☐ Insulin ☐ Penicillin ☐ Cyclosporine ☐ Lovastatin
- Types of pain receptors are _____.
☐ Cutaneous ☐ Somatic ☐ Visceral ☐ All these
- All of the given are secreted by anterior pituitary except _____.
☐ GH ☐ ADH ☐ FSH ☐ TSH
- Hypersecretion of insulin results in _____.
☐ Polyuria ☐ Polydipsia ☐ Hypoglycemia ☐ Poly phagia
- Territorial behavior is exhibited by _____.
☐ Spider monkey ☐ Fish ☐ Birds ☐ Cat
- _____ is not a cause of male infertility.
☐ Uterine fibroids ☐ Varicocele
☐ Sperm movement ☐ Cystic fibrosis
- The protective coat which surround the embryo is known as _____.
☐ Chorion ☐ Allantosis ☐ Amnion ☐ Yolk
- _____ is directly connected with Larynx.
☐ Bronchi ☐ Bronchioles ☐ Alveoli ☐ Trachea
- Isoniazid and rifampin are the most common drugs used for the treatment of _____.
☐ Sinusitis ☐ Pneumonia ☐ Tuberculosis ☐ Nausea
- Which animal can derive water from cellular oxidation?
☐ Kangaroo rat ☐ Hag fish ☐ Shark ☐ Snail
- The level of uric acid may rise due to high intake of _____ in the food.
☐ Calcium ☐ Protein ☐ Oxalate ☐ Phosphate
- Number of bones in human skull are _____.
☐ 24 ☐ 25 ☐ 26 ☐ 28
- _____ joints permit movement in one plane.
☐ Hinge ☐ Ball and socket
☐ Fibrous ☐ Cartilaginous

SECTION - B

Marks: 40

Note: Time allowed for Section-B and Section-C is 2 Hours and 40 minutes. [BIOLOGY (New) — Inter Part-II (Fresh/Reappear)]

Q-II Answer any TEN parts. Each part carries FOUR marks.

- Enlist the causes and symptoms of sinusitis.
- Briefly discuss the parts/components of the renal tubules.
- Write differences between bone and cartilage.
- Define nerve and also write its three types.
- Write the name and function of any four steroid hormones in human body.
- What is territorial behavior?
- Define in-vitro fertilization, how it is performed.
- Describe the role of placenta, during gestation period.
- Briefly discuss hemophilia, with reference to as an X-linked recessive inheritance.
- Define mutation and write its types on the basis of origin.
- Explain the role of comparative anatomy as an evidence of evolution.
- Discuss water cycle in nature.
- Write a short note on molecular carrier or vector.

Note: Attempt any THREE questions. All questions carry equal marks.

- Q-III (a) Write the properties of Respiratory Surfaces. (4)
- (b) Explain the structure of human kidney. (5)
- Q-IV Define muscles and also explain its three types with detail. (5)
- Q-V (a) Write the structure and function of human fore brain. (5)
- (b) Discuss the process of hormonal control of spermatogenesis. (4)
- Q-VI Give a detailed note on the process of DNA replication. (9)

Notes on this transcription

- This is a **typeset transcription** of the original paper, not a photograph of it. Question wording, spelling, punctuation and numbering are reproduced exactly as printed, including the board's own errors.
- **No answer key is included.** On the source sheet the correct circles are already shaded in; every option here is reproduced unmarked so the paper can be attempted.
- Peshawar Board papers carry no group label, so this paper is filed without one.
- The objective-section instructions are printed in Urdu on the original sheet; an English rendering of them is given above.
- The objective half is the board's printed answer sheet (booklet P-469); the written half is booklet P-470. The candidate's name and roll number printed on the sheet have been left out.
- Board spellings kept verbatim: "Cutaneus" (Q.7), "Poly phagia" (Q.9), "Allantosis" (Q.12), and "with reference to as an X-linked" (Section-B 9).
- Q-IV prints no mark figure of its own; the other Section-C questions carry the figures shown.