

BIOLOGY

Paper : I (Essay Type)

Time Allowed : 1.45 hours

Maximum Marks : 48

019 - (نہم کلاس)

(دوسرا گروپ)

(PART - I حصہ اول)

بیالوجی

پرچہ : I (انشائیہ طرز)

وقت : 1.45 گھنٹے

کل نمبر : 48

2- کوئی سے پانچ (5) سوالات کے مختصر جوابات لکھئے:

10 2. Write short answers to any Five (5) questions:

- Define parasitology.
- Differentiate between community and population.
- Write down the name of main steps of biological method.
- Write two observations of A.F.A King.
- Describe two properties of kingdom fungi.
- Write down the name of two endangered species in Pakistan.
- Describe two functions of cell membrane.
- Write two functions of lysosomes.

3- کوئی سے پانچ (5) سوالات کے مختصر جوابات لکھئے:

10 3. Write short answers to any Five (5) questions:

- Define karyokinesis and cytokinesis.
- Differentiate between apoptosis and necrosis.
- What is meant by alternation of generation?
- What is meant by active site in enzyme?
- Differentiate between prosthetic group and co-enzyme.
- Differentiate between aerobic and anaerobic respiration.
- Write down the three subunits of ATP.
- Differentiate between photosynthesis and respiration.

4- کوئی سے پانچ (5) سوالات کے مختصر جوابات لکھئے:

10 4. Write short answers to any Five (5) questions:

- What is the role of magnesium in plants?
- Describe the causes of ulcer.
- What is chyme?
- Differentiate between saturated and un-saturated fatty acids.
- How does wind (air in motion) affect the rate of transpiration?
- What is blood? Write the name of its parts.
- Differentiate between pulmonary circulation and systemic circulation.
- Write the name of organism which transmits dengue fever.

(PART - II حصہ دوم)

Note : Attempt any TWO questions.

5- (الف) بائیولوجی سے منسلک پیشہ میڈیسن / سرجری اور ہورتیکلچر بیان کیجئے۔

4 5. (a) Describe careers in biology of medicine / surgery and horticulture.

5 (ب) کمپاؤنڈ ٹشوز کی تعریف کیجئے اور ویکسولر پودے میں پائے جانے والے کمپاؤنڈ ٹشوز کی وضاحت کیجئے۔

(b) Define compound tissues and explain compound tissues found in vascular plants.

4 6- (الف) اینزائم ایکشن کے میکازم کی وضاحت کیجئے۔

5 (ب) ریسپیریشن کے میکازم کی وضاحت کیجئے۔

4 7- (الف) کھادوں کی اہمیت تفصیل سے لکھئے۔

5 (ب) پودوں میں پانی اور آئنز کو کیسے جذب کیا جاتا ہے؟

(b) How uptake of water and ions take place in plants?