

Biology (Essay Type)**Group-I- گروپ****حیاتیات (انشائیہ)**

نمبر: 48

Marks: 48

Time: 1:45 Hours گنتے 1:45 وقت

Section-I

3x10=30

2- Write short answers of any five part from the following. 2x5=10

- What do you mean by horticulture?
- Define Bioelements.
- Write any two examples of unicellular organism?
- Differentiate between quantitative and qualitative observations?
- Define incubation period?
- What is meant by Law or Principle? Give two examples?
- What is difference between primary growth and secondary growth in plants.
- Give any two functions of epidermal tissues?

3- Write short answers of any five part from the following. 2x5=10

- Define extinct and endergered species.
- Give National conservation strategy for conservation of biodiversity?
- What kind of changes occure in G2 Phase?
- How do mitosis is significant for growth and development?
- What is crossing over? Give its diagram.
- Define disjunction and non-disjunction.
- What is glycolysis?
- Draw the molecular structure of ATP.

4- Write short answers of any five part from the following. 2x5=10

- What is meant by metabolic pathways.
- Define active site of enzyme.
- What is effect of temperature on rate of enzyme action.
- Define vitamins and name its types.
- Define bolus.
- Differentiate between source and sink.
- What is angina pectoris.
- What is effect of dengue fever on platelets.

Section -II**Note: Answer any two questions from the following.**

- (a) Explain organ and organ system level with example.
(b) Write differences between prokaryotic and eukaryotic cells.
- (a) Describe importance of biodiversity.
(b) Define dark reactions and write the summary of events of dark reactions.
- (a) Describe the effects of malnutrition.
(b) How transport of food takes place in plants.

نوٹ: درج ذیل میں سے کوئی سے دو سوالات کے جوابات تحریر کریں۔ 9x2=18

- (الف) آرگن اور آرگن سسٹم لیول کی وضاحت مثالوں سے کریں۔ 04
- (ب) پروکاریوٹک اور یوکاریوٹک سیل میں فرق تحریر کریں۔ 05
- (الف) بائیوڈائورسٹی کی اہمیت بیان کیجئے۔ 04
- (ب) ڈارک ری ایکشنز کی تعریف کریں اور ڈارک ری ایکشنز کے مراحل کی سری لکھیے۔ 05
- (الف) میل نیوٹریشن کے اثرات بیان کریں۔ 04
- (ب) پودوں میں خوراک کی ٹرانسپورٹ کیسے ہوتی ہے۔ 05

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