**Fauji Foundation College Talagang**

**Send ups exam**

**Subject;Biology Class 10th T.Marks =60**

**Objective/12**

1.Adult population infected with HIV in Pakistan is

(a) 03% (b) 0.5% (c) 0.1% (d) 0.7%

2. The biologist who hinted at evolution for the first time was

(a) Darwin (b) Lamarck (c) Buffon (d) Mendal

3. R2 stands for

(a) Reduce (b) Reuse (c) Recycle (d) Renewable

4. DnA backbone is formed of

(a) DNA-RNA (b) Phosphate sugar (c) DNA protein (d) DNA DNA

5. Antiviral protein is

(a) Interpherons (b) Urokinase (c) Thymosin (d) Beta enndorphinn

6. Presence of hausforia roots in some plants is example of

(a) Mutualism (b) Commensalism (c) Parasitism (d) Predation

7. Thicknes of biosphere is

(a) 10km (b) 20km (c) 40km (d) 30km

8. Which plant is not carnivorous?

(a) Venus fly trap (b) Cactus (c) Sun dew (d) Pitcher plant

9. Which is example of stem tuber?

(a) Dasheen (b) Potato (c) Onion (d) Tulip

10. In human body the number of chromosomes is

(a) 23 (b) 46 (c) 26 (d) 48

11. After fertilization, the fruitss develops from

(a) Ovule (b) Ovary wall (c) Petals (d) Anther

12. Study of relationship between living organisms and their environment is called

(a) Ecology (b) Biology (c) Physiology (d) Histology

**(Section –I)**

**2. Write short answers of any Five parts of the following. (10)**

1. What is meant by seed germination? Give internal conditions for seed germination.
2. What is translation? iii. Define incomplete dominance.

iv What was the phenotpic ratio of mendelian monohybrid and Dihybrid crosses in F2?

v Write four names of abiotic components of an ecosystsem.

Vi Define a food web. Vii Write the role of bacteria in nitrification.

Viii What are the epiphytes? How do they live?

**3. Write short answers of any Five parts of the following.(10)**

1. What is meant by fermentation?
2. Write any benefitt of the use of fermenter.
3. How nucleosomes are formed?
4. Define transcription.
5. What is meant by natural selection?
6. How decomposers break down the complex organic compounds?
7. How gene of interest is isolated?
8. Describe application of fermentation is Dairy products.

**4. Write short answers of any Five parts of the following. (10)**

1. What is Spermatogenesis?
2. State the law of segregation?
3. What are phytoplankton?what is their role in ecosystem?
4. Why the use of single cell protein is essential in future?
5. Write down the composition of Chromatin material.
6. What is Genotype? Also write names its types.
7. Write two reasons for the selection of pea plant in genetics. Viii. Write down two uses of glycerol.

**Section II**

**Answer any two questions 9\*2=18**

Q5 a) What is vegetative propagation? Write about bulbs and corns./4

b) Why is genetic engineering considered as milestone in modren biotechnology?/5

Q6 a) What is meant by single cell protein? Describe its importance./5

b)How would you explain variations lead to evolution?/4

Q7a) Write note on mutualism and commensalism?/4

b) Describe the process of spermatogenesis and oogenesis?/5