

PR X (A-I-A5) 25
Biology (New)
10th (Fresh/Reappear)

- ۱۔ ہر سوال کے سامنے چار دائرے دیئے گئے ہیں، صرف صحیح جواب والا دائرہ بھر دیں۔
۲۔ دائروں کو شید (بھرنے) کے لیے نیلے یا کالے رنگ کا مارکر استعمال کریں۔
۳۔ جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

Time: 15 Minutes

SECTION-A

Marks: 12

Q1: Choose the correct option i.e, A,B,C or D?

- All of the given are necessary for seed germination except.
☐ Water ☐ Oxygen
☐ Suitable temperature ☒ Light
- Which of the given shows few clear cut phenotypes?
☐ Continuous variation ☒ Discontinuous variation
☐ Complete dominance ☐ Over dominance
- The amount of nitrogen in air is.
☐ 58% ☐ 68% ☒ 78% ☐ 85.969%
- Which of the given cause water pollution?
☐ CFCs ☒ Oil spills ☐ Nitrogen ☐ Carbon
- Which of the given genetically modified organisms is used to make interferon?
☐ Fungi ☐ Virus ☒ Bacteria ☐ Algae
- Vitamin-C is taken from lime juice and is used to treat.
☒ Scurvy ☐ Malaria ☐ Typhoid ☐ Hepatitis
- Which of the given respiratory disorders may be caused by bacteria, viruses or fungi?
☒ Pneumonia ☐ Asthma
☐ Emphysema ☐ Lung cancer
- Kidney stone is also caused by.
☐ Citric acid ☐ Lactic acid ☒ Uric acid ☐ Acetic acid
- Organs which receive stimuli are called.
☐ Coordinators ☐ Effectors ☒ Receptors ☐ Carrier
- Which of the given hormones cause constriction in blood vessels of the gut and face?
☐ Adrenaline ☒ Noradrenalin ☐ Insulin ☐ Thyroxin
- Which of the given structure protect spinal cord?
☐ Skull ☒ Vertebral column

- ☐ Rib cage ☐ Pectoral girdle
12. Which of the given seeds may be suitable for epigeal germination?
- ☒ Bean ☐ Maize ☐ Pea ☐ Wheat

BIOLOGY 10th (Fresh/Reappear)

Note: Time allowed for Section-B & Section-C is 2:45 Hours.

SECTION-B

Marks: 32

Q2: Answer any EIGHT parts. Each part carries 4 marks?

1. How are the bronchioles different from bronchi with respect to their structure? Explain?
2. Briefly explain the role of kidneys as a homeostatic organ?
3. Write the names of parts of urinary system in correct sequence?
4. Define nervous coordination. Identify the phases of the mechanism of coordination?
5. State the effects of under-secretion and over secretion of growth hormone in humans?
6. Briefly explain pectoral girdle and fore limbs?
7. Define binary fission. Write the names of three organisms in which binary fission takes place?
8. Briefly describe the terms dominant and recessive with example?
9. Explain any four reasons of deforestation?
10. What is a single cell protein? Discuss the disadvantages of single cell protein?
11. Categorise tetracycline's and cephalosporin's on the basis of their actions?

SECTION-C

Marks: 21

Q3: Attempt any THREE questions. All question carry equal marks?

1. (a) Differentiate between hemodialysis and peritoneal dialysis?
(b) What is the function of sensory receptors in reflex action?
2. (a) Explain flexed and extended state of an arm caused by biceps & triceps?
(b) Compare and contrast between cutting and cloning?
3. (a) Describe phenotypic and genotypic ration of F-2 generation by demonstrating green and yellow pod color in pea plants?
(b) Explain the interrelationship of air and plant as components of ecosystem?
4. (a) Define zymology. Give three examples of fermentation products used in daily life?
(b) Describe how addiction increases occurrence of conflicts and financial instability?