

P-655

BIOLOGY PAPER-X
(A-I-KT-26)

**VERSION: A**

Stamp of Supdt:

Roll No. _____

C No.172 _____

Name: _____

Time Allowed: 20 Minutes

SECTION-A

Marks:12

- The chemical in cigarette causing respiratory, skin and gastrointestinal problems is:
A. Nicotine B. Formaldehyde C. Benzene D. Carbon monoxide
- Halophytes prevent water loss because they absorb salts from external water through:
A. Osmosis B. Active transport C. Diffusion D. Passive transport
- The gaps or intervals found along the myelin sheath of an axon are called:
A. Nodes B. Internodes C. Schwann cells D. Nucleus
- An abnormal burst of electrical impulses in the brain causing strange behavior is called:
A. Paralysis B. Heart attack C. Seizure D. Muscle weakness
- Cartilage having least number of cells and maximum ground substance is called:
A. Flexible cartilage B. Elastic cartilage C. Hyaline cartilage D. Fibrous cartilage
- In the process of grafting, the grafted part of the desired plant is called:
A. Stock B. Scion C. Stem D. Root
- Antiretroviral drugs are used to: 1217234
A. Kill HIV B. Hinder growth of HIV C. Multiply HIV D. Increase growth of HIV
- The Intelligence Quotient (IQ) in humans is an example of:
A. Continuous variations B. Discontinuous variations C. Environmental variations D. Non environmental variations
- The total thickness of the Earth's biosphere is approximately:
A. 40 km B. 30 km C. 20 km D. 10 km
- A pyramid of numbers will indicate a stable ecosystem when:
A. Producers are maximum in number B. consumers outnumber producers C. Producers are absent D. All trophic levels have equal numbers
- SCP is called "Single Cell Protein" because it is obtained from: 1217234
A. Plant cells B. Animal cells C. Unicellular organisms D. Tissue cells
- Provincial EPI centers were established in:
A. 2010 B. 2011 C. 2012 D. 2013

Write Roll No. in the boxes and shade the appropriate circle.

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0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Shade the correct answers for each question below.

- A ☒ B ☐ C ☐ D ☐
- A ☒ B ☐ C ☐ D ☐
- A ☐ B ☒ C ☐ D ☐
- A ☐ B ☐ C ☒ D ☐
- A ☐ B ☐ C ☒ D ☐
- A ☐ B ☒ C ☐ D ☐
- A ☐ B ☒ C ☐ D ☐
- A ☒ B ☐ C ☐ D ☐
- A ☐ B ☐ C ☒ D ☐
- A ☒ B ☐ C ☐ D ☐
- A ☐ B ☐ C ☒ D ☐
- A ☒ B ☐ C ☐ D ☐
- A ☐ B ☐ C ☐ D ☒
- A ☐ B ☐ C ☐ D ☒
- A ☐ B ☐ C ☐ D ☒

2 Hours 40 minutes.

KT-X-26-I
Biology (10th)

P-656

Section "B"

Marks: 32

Q.2 Attempt any EIGHT parts. All parts carry equal marks.

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|--|---------|
| i. Distinguish between bronchitis and asthma in terms of causative agent and treatment. | 2+2 |
| ii. What is meant transpiration? Enlist any three types of transpiration. | 1+3 |
| iii. Define nephron. Also state number of nephrons in each kidney. | 3+1 |
| iv. Briefly describe testes as male gonads. Also state one function of testosterone. | 2+2 |
| v. List any four characteristics of cerebrum. | 1+1+1+1 |
| vi. Distinguish between pectoral girdle and pelvic girdle. | 2+2 |
| vii. Briefly describe budding in two steps as an asexual reproduction in animals. | 2+2 |
| viii. Define dominant trait. Also prove dominant trait through a monohybrid genetic cross. | 1+3 |
| ix. What is meant by mutualism? Also give any two examples. | 2+1+1 |
| x. Define fermenter. List any three medical products and any three enzymes manufactured through fermenter. | 1+3 |
| xi. List any four feelings produced after taking marijuana. Also state any four side effects of it. | 0.5×8=4 |

Section "C"

Marks: 21

Note: Attempt any THREE of the following questions. All questions carry equal marks.

- | | |
|---|-----------------|
| Q.3 a). Describe how does combined intake of green vegetables and dairy products promote calcium oxalate stone formation? Also name any two vitamins that may cause kidney stones. | 1.5+1.5+0.5+0.5 |
| b). Distinguish between vitreous humor and aqueous humor in terms of location. | 1.5+1.5 |
| Q.4 a). Describe hinge joints as an example of freely movable joints. Also give any two examples | 2+2 |
| b). Why do insect-pollinated flowers produce nectar? State its role in pollination. | 1.5+1.5 |
| Q.5 a). State the phenotypic ratio obtained in the F ₂ generation of a dihybrid cross. Also explain how does this ratio support the law of independent assortment. | 2+2 |
| b). State any three ways of controlling air pollution. | 1+1+1 |
| Q.6 a). List four non-food items produced by fermentation. | 1+1+1+1 |
| b). Explain two signs of physical deterioration due to prolonged drug use. | 1.5+1.5 |