

**लोक सेवा आयोग**  
**नेपाल वन सेवा, वोटानी समूह, राजपत्र अनंकित द्वितीय श्रेणीको खुला प्रतियोगितात्मक लिखित**  
**परीक्षाको पाठ्यक्रम**

यस पाठ्यक्रमलाई दुई भागमा विभाजन गरिएको छ ।

भाग	परीक्षा	विषय	पूर्णाङ्क	प्रश्न संख्या	समय	परीक्षा प्रणाली	उत्तीर्णाङ्क
१	लिखित	सेवा सम्बन्धी	१००	५०	४५ मिनेट	वस्तुगत बहुउत्तर (Multiple Choice)	४०
२	अन्तर्वार्ता		२०				

**द्रष्टव्य :**

- (१) पाठ्यक्रममा भएका यथा सम्भव सबै पाठ्यांशहरूबाट प्रश्न सोधिनेछ ।
- (२) गल्ती गरेको प्रश्नोत्तरका लागि २० प्रतिशत अंक कटौत गरिनेछ ।
- (४) यो पाठ्यक्रम २०५५ साल आषाढ ३२ गतेदेखि लागू हुनेछ ।

नेपाल वन सेवा, बोटानी समूह, राजपत्र अनंकित द्वितीय श्रेणीको खुला प्रतियोगितात्मक लिखित

परीक्षाको पाठ्यक्रम

समय :- ४५ मिनेट

प्रश्नसंख्या :- ५०

पूर्णाङ्क :- १००

1. Characteristics of living beings.
2. Differences between living beings and non living things.
3. Differences between Plants and Animals.
4. The cell: types of cells, differences between prokaryotic cell and Eukaryotic cell; parts of cell, cell membrane, protoplasm, cytoplasm, mitochondria, golgi bodies, centrosome, ribosomes, lysosomes and vacuoles.
5. Nucleus : nuclear membrane, chromatin reticulum, chromosomes, DNA and RNA, differences between DNA and RNA.
6. Characteristic features of a plant cell, differences between animal and plant cell.
7. Cell division, mitosis, meiosis, significance of meiosis, differences between mitosis and meiosis.
8. Photosynthesis and its significance; essential condition of photosynthesis.
9. Respiration, significance of respiration, types of respiration, differences between aerobic and anaerobic respiration.
10. Darwins theory of evolution.
11. Heredity, Mendel's Experiment, laws of inheritance
12. Ecosystem and its components, types of ecosystem.
13. Life cycle of plants, parts of a typical (Mustard plant) plant, function of leaf, typical flower, calyx, corolla, androecium, gynoecium, pollination.
14. Fern, its life cycle.
15. Structure of virus, bacteria and yeast.
16. Structure and reproduction in mucor.

### Model Questions

1. The animal cell contains:  
(A) Cell wall (B) Plastides (C) Lysosome (D) Centrosome
2. The cell division where the number of chromosomes in the daughter cell becomes half is known as :  
(A) Mitotic cell division (B) Anaphase  
(C) Metaphase (D) Meiotic cell division
3. The respiration when food is broken down in the absence of oxygen is called :  
(A) Aerobic (B) Anaerobic (C) Breathing (D) All of the above
4. The Mustard flower is :  
(A) Bisexual (B) Unisexual (C) Sexual (D) None of the above
5. Fungus possessing two kinds of mycelia, which are morphologically similar but physiologically distinct is said to exhibit :  
(A) Homothalium (B) Heterothallism (C) Promycelium (D) None of the above