

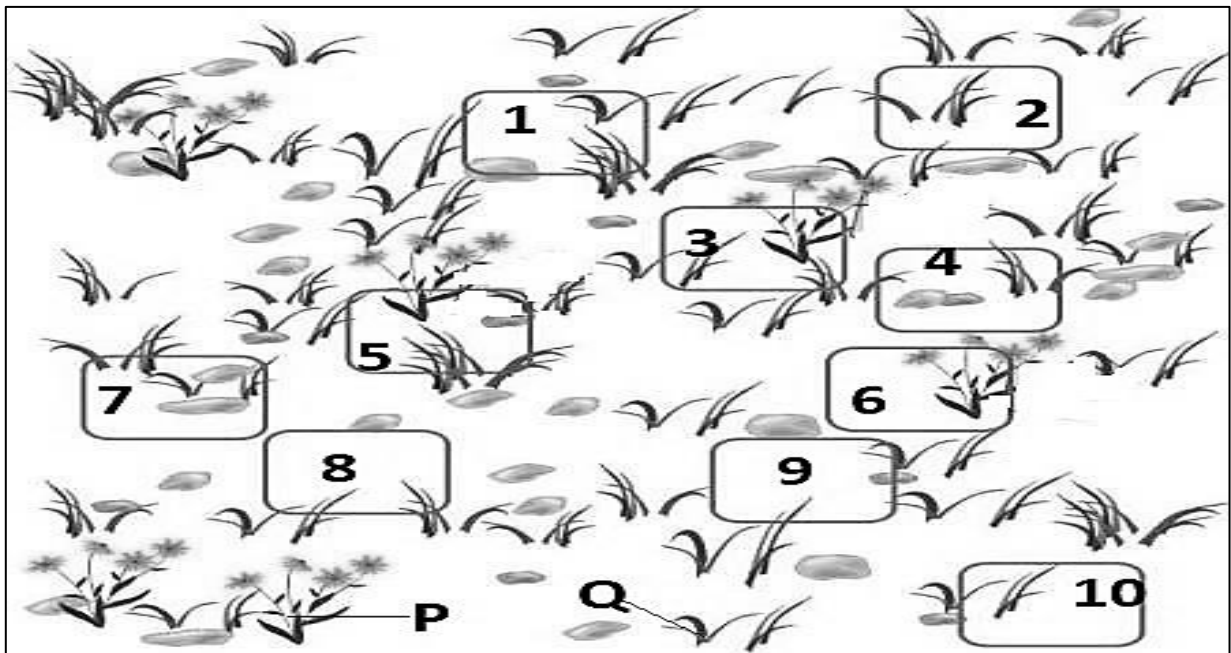


**Delhi Public School, Howrah**  
**PERIODIC TEST II PRACTICAL EXAM (2024-2025)**  
**Class-XII**  
**Subject: - Biology (Code No. 044)**

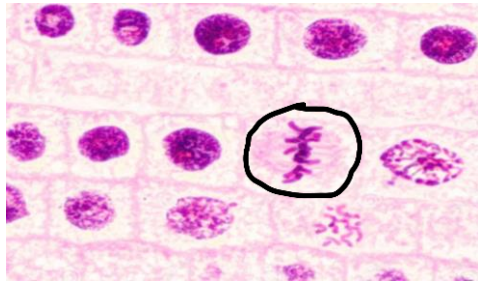
**Time: - 3 hours**

**F.M.-30**

- A. Prepare the slide to show the germination of the pollen grain. Write objective, materials required, observation & discussion. **2+2=4**
- B. Perform an experiment to isolate DNA from the given plant material. Mention its objective, materials required, procedure, observation and precautions. **[1+1+2+.5+.5=5]**
- C. Given below is provided a picture depicting 10 quadrats (No. 1-10) with two species of plant (P and Q). Carefully see the distribution of plants and answer the following questions.



- i. What is the density of individual plant species? (Species denoted as alphabet P, Q) **(2)**
- ii. What is the percentage of plant population frequency? **(2)**  
**(Show the calculation for the above answers.)**
- D. Carefully observe the microscopic picture of meiosis stage in onion bud cell. Identify the stage of meiosis of the cell marked in a circle. State one characteristic feature of that stage. **(1+1= 2)**



**E. Identify the given spots and answer the respective questions mentioned below.**

**Spot A1-** Identify the given sample under microscope & write one identifying feature of it. **2**

**Spot B1-** Mention the agent of Pollination in the given flower sample and write two adaptive features of the flower for supporting such type of pollination. **2**

**Spot C1-** Identify the given sample under microscope & draw the labelled diagram of it. **2**

**F. Practical file record/ Viva (3 + 2 = 5)**

**G. Project file record/ Viva (2 + 2 = 4)**