Online BDP Term End (Practical) Examinations : December 2020 & June 2021

ঐচ্ছিক পাঠক্রম (Elective Course)

Practical

উদ্ভিদবিদ্যা (Botany)

EBT-12 : Botany - III

Instructions with Model Questions

∗ **Examinees are asked to go through this model question to solve the final MCQ during the examination.**

❖ **Instructions :**

The questions will be of MCQ type from the reduced syllabi (available in the NSOU website). There will be four options for answer. You will have to answer the correct one. Examinees need to go through the topics carefully and are expected to have an application based approach while they are covering a topic. Examinees can expect several types of questions from the different topics of the reduced syllabi. They are advised to follow the following points.

- **Workout / identification based topics :**

  Examinees are expected to have a clear idea about its characteristics and systematic position (as and when applicable) of different samples. In this case examinees are suggested to read the special characteristics for that sample, intensively.

  Must have a knowledge of all reagents/chemicals and instruments used for these purposes.

- **Experiment based topics :**

  Examinees are advised to know about the four major part of that experiment *i.e.* **Principle, Materials** and **Methods** (How the experiment is performed and uses of different materials), **Observation** and **Conclusion** part.

❖ **Model Questions :**

1. নিচের সংখ্যাগুলির mean ও standard deviation কত ?

   34, 22, 43, 55, 87, 66, 46

   Find out the mean and standard deviation of the following numbers :

   34, 22, 43, 55, 87, 66, 46

2. যখন ডিগ্রী অফ ফ্রীডম 1, তখন 0·05 লেভেলে χ^2 -এর মান কত ?

   Write down the value of χ^2 at 0·05 level when degree of freedom is one.

3. ক্রোমোসোমের প্রিট্রিটমেন্ট করতে কোন্ কেমিক্যাল ব্যবহৃত হয় ?

Which chemical is to be used in pretreatment of chromosome ?

4. মাইটোসিস ও মিওসিস কোষগুলি অণুবীক্ষণ যন্ত্রের নিচে কি পার্থক্য দেখায় ?

What is the difference between mitosis and meiosis cells under the microscope ?

5. কখন ক্রোমোজোমের উচ্চ ঘনীভূত অবস্থা দেখা যায় ?

When chromosome is highly condensed ?

6. Denings reagent দিয়ে কোন্ জৈব অম্ল নিশ্চিত করা যায় ?

Which organic acid is determined by Denings reagent ?

7. কোন্ রাসায়নিক দ্বারা ক্রোমোজোম দ্বিগুণ করা যায় ?

Which chemical is used to doubling of chromosome number ?

8. নিচের নমুনাটির χ^2 –এর মূল্য কত ?

হলুদ বীজ : 428 ; সবুজ বীজ : 152

Find out the χ^2 value of the following ratio :

Yellow seed : 428 ; Green seed : 152