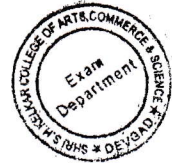


S H Kelkar Collage Devgad  
SEM -IV Examination Mar- April 2023  
S.Y.B.sc Botany paper -I ( Plant Diversity-II)  
Code No – USB0401



Duration – 3 hrs.

Max. mark - 100

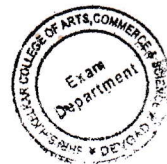
N.B.-

- 1) All questions are compulsory.
- 2) Figures to right indicates full marks.
- 3) Draw neat labeled diagrams wherever necessary.

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Q. 1 A) Fill in the blanks by choosing appropriate word.

- 1) Cell wall in Ascomycetes is made of ----- layers .  
a) Three      b) Two      c) Single      d) None of these
- 2) *Erysiphe* cause ----- disease on the surface of the leaves and fruit also.  
a) Downy mildew      b) Powdery mildew      c) leaf curl      d) late blight
- 3) The disease late blight of potato is caused by-----  
a) *E. Polygonii*      b) *E. graminis*      c) *Phytophthora infestans*      d) None of these
- 4) The genus *Selaginella* is often divided into ----- subgenera.  
a) Three      b) four      c) Two      d) single
- 5) ----- is also a hard resin obtain from trunk of *tetraclinis*.  
a) Amber      b) sandarac      c) oil      d) Paper
- 6) The word gymnosperm was used by ----- before 300 B.C  
a) Chamberlain      b) Mendel      c) Darwin      d) Theophrastus
- 7) ----- is a study of plant of the geological past  
a) Palynology      b) pomology      c) Paleobotany      d) paleontology
- 8) ----- was the age of the gymnosperms as is evidenced by the abundance of cycadophytes and conifers.  
a) cenozoic      b) Mesozoic      c) plaeozoic      d) Archeozoic



- 9) Rhynia is included under the order -----  
a) psilophytes b) psilophyta c) psilophytinae d) Isoetales
- 10) *Pinus* is plant of ----- region .  
a) Tropical b) subtropical c) Temperate d) Alpin

10

Q. 1. B) Answer the following in one sentence

- 1) Give the Occurrence of *Ascomycetes*
- 2) Define plant pathology.
- 3) What do you meant by Heterospory.
- 4) Give any Four Gymnospermic plants used for decoration.
- 5) What is canda balsam.

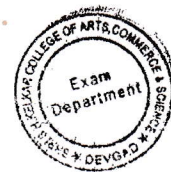
Q. 2. Answer any two of the following

- 1) Give salient features of coniferophytes.
- 2) Explain economic importance of coniferophytes.
- 3) Give the systematic position of *pinus* . Add note on external morphology of the same.
- 4) Discuss the female strobilus of *cordiata*.

Q.3. Answer any two of the following.

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- 1) Explain the Powdery mildew disease in detail.
- 2) Describe types of Lichen. Add note on classification of lichen.
- 3) Write about asexual reproduction in *Erysiphe*. Add a note on classification .
- 4) Describe the vegetative Structure & mycelium in *xylaria*. Add note on occurrence of *xylaria*.



Q. 4. Answer any two of the following.

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- 1) Explain salient features & classification of Psliophyta.
- 2) Describe the internal morphology of *Selaginella* stem.
- 3) Give detail account on formation of fossils or process of fossilization.
- 4) Describe the T.S. of leaf in *Selaginella*.

Q.5. Write short note on (any four)

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- 1) Hetrospory and seed habit in *Selaginella*
- 2) Impression.
- 3) Nature of association in Lichen.
- 4) Gymnosperm wood.
- 5) Systematic position of *cordaites*.