

- (b) Enumerate the difference between analog and digital photography and discuss how digital photography can be used for sensitizing people towards biodiversity conservation. (7)
5. (a) Discuss stains used to visualize different plant forms under bright-field microscope. (5)
- (b) Elaborate what is ISO means in digital photography and discuss its role in digital camera. (5)
- (c) What is the f-number? Explain full stop and half stop. (5)
6. (a) Define art galleries. What are different thematic art galleries you would like to present for conservation of nature? (7)
- (b) What is role of photography in ecotourism? (4)
- (c) Explain the advantages of Scanning electron microscope. (4)

(1000)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 6037 H

Unique Paper Code : 2164001205

Name of the Paper : Viewing and Capturing
Diversity in Nature GE

Name of the Course : Common Prog.

Semester : II

Duration : 2 Hours Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **four** questions in all, including question number 1, which is compulsory.
3. **All** questions carry equal marks.
4. **All** parts of a question must be answered together.
5. Draw diagrams wherever required.

1. (a) Define any **five** of the following : (5×1=5)

(i) Tripod

(ii) Focusing ring

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- (iii) Focal length
- (iv) Aperture
- (v) Pixels
- (vi) Landscape
- (vii) White balance

(b) Fill in the blanks. (5×1=5)

- (i) The main element used in film-based photography is _____.
- (ii) The Vertical movement of a camera on its axis is called _____.
- (iii) Image of a fast-moving object can be freezed by _____.
- (iv) The _____ on a dissecting microscope is used to hold and position the specimen for examination.
- (v) Xerophytic plants are specifically adapted to survive in _____ environments.

(c) Expand the following terms : (5×1=5)

- (i) SEM

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- (ii) PPI
- (iii) DPI
- (iv) SLR
- (v) CCD

2. Write a short note on any **three** : (3×5=15)

- (a) Depth of field
- (b) Types of lenses used in photography
- (c) Xerophytic adaptations
- (d) Insectivorous plants
- (e) Characteristic features of aquatic plants

3. Differentiate the following : (3×5=15)

- (a) Bright field microscope and Electron microscope
- (b) Mirrorless camera and DSLR
- (c) Resolving power and Magnification

4. (a) Write the principle of Bright-field microscope. Make a labelled diagram of the bright-field microscope and explain the function of each part. (8)

P.T.O.