Parasiin is a preferable embedding medium of choice

M. Sc.-IV Sem.

## 14116

# M. Sc. Examination, June 2016 BOTANY-XIII

## Modern Phytotechniques & Biostatistics (H-4001)

Time: Three Hours]

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[Maximum Marks: 50

Note: Attempt questions from all Sections as per instructions.

#### Section-A .

### (Very Short Answer Questions)

Attempt all the *five* questions. Each question carries 2 marks. 2×5=10

Write short note on Haematoxylin.

2

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- Differentiate between median and mode.
- 3. Which factors influence staining process?

	during microtomy, why?
5.	What are main applications of cell sorting?
	Section-B
	(Short Answer Questions)

Attempt any two questions out of the following three questions. Each question carries 5 marks.  $5\times2=10$ 

6. What precautions are taken into consideration, while preservation and storage of plant material is done? 5

7. Comment upon the following:

5

2

- (a) ELISA
- b) Immunoblotting.

8. Write short notes on the following:

5

- (a)  $\chi^2$ -test and its significance
- (b) How we calculate Standard Deviation and its application?

#### Section-C

### (Long Answer Questions)

Attempt any three questions out of the following five questions. Each question carries 10 marks. 10×3=30

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4.

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9.	Explain the classification of data and its objecti-	VC3
	Discuss the different methods of classification.	10

- Define centrifuge and centrifugal force. What is the basic principle of centrifugation? Explain instrumentation of high speed centrifuge.
- Define spectrophotometry. Explain in detail MS and its applications.
- 12. Write notes on the following:
  - (a) Mean Deviation
  - (b) Standard error
  - (c) Mean and its merits and demerits.
- Define TLC. Give in detail its methodology and applications.

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