

SECTION - C

Answer any five. Short answer questions. Each question carries a weightage of 1.

12. How is INFLIBNET helpful in academic services?

13. What is metadata?

14. What is virtual reality?

15. What is the difference between speed and acceleration?

16. What is a green computer?

17. What is a green computing?

18. What is a green building?

SECTION - D

Answer any six. Short answer questions. Each question carries a weightage of 2.

19. What is regressive staining? Explain its procedure.

20. What is the principle of chromatography?

21. What is the difference between system software and application software?

Give examples for each.

22. Explain various categories of cybercrime.

23. Whether IT is advantageous or disadvantageous in education? Substantiate.

24. What are the features of modern computers?

25. Explain computer networking. Mention different types of networking.

26. Explain the procedure for serial sectioning of paraffin embedded material. (8x2=12)

SECTION - E

Answer any one. Essay type questions. Each question carries a weightage of 4.

27. Describe the working of a phase contrast microscope. Add a note on its application.

28. Explain various separation techniques employed in biological studies.

29. Describe the issues and concerns associated with cyber world. (1x4=4)



Reg. No. :

Name :



M 8716

II Semester B.Sc. Degree (CCSS-Supple./Improv.) Examination, May 2015
Core Course in Botany/Plant Science
2B02 BOT/2B01 PLS : GENERAL INFORMATICS AND
INSTRUMENTATION
(2012-13 Admn.)

Time : 3 Hours

Total Weightage : 30

SECTION - A

Objective questions (Multiple choice/one word/sentence/fill in the blanks/match the following, **true** or **false** etc.) in cluster of **four**. **Each** cluster carries a weightage of **1**.

1. Choose the correct answer

i) Which of the following is a nuclear stain ?

- | | |
|-----------------|-----------------|
| a) Safranin | b) Methyl green |
| c) Acetocarmine | d) Fast Green |

ii) Which of the following is software ?

- | | |
|-----------|------------|
| a) Laptop | b) Netbook |
| c) Nettop | d) Linux |

iii) MS Excel is a

- | | |
|------------------------|----------------------|
| a) Spreadsheet tool | b) Presentation tool |
| c) Word processor tool | d) Database tool |

iv) A beam in which all the rays have same wavelength

- | | |
|------------------------|-------------------------------|
| a) Monochromatic light | b) Beam light |
| c) Visible light | d) Electromagnetic radiations |

2. State **true** or **false** :

- Mainframe Computer is a portable computer.
- TEM is used for imaging live cells.
- pH meter is used for separating components in a solution.
- Central processing unit is the brain of the computer.

P.T.O.



3. Fill in the blanks :

- i) An _____ is a set of computer programs that manages the hardware and software resources of a computer.
- ii) Sterile atmosphere for inoculation in cell culture is provided by _____
- iii) Preparations of whole organisms mounted on glass slides is called _____
- iv) A program that can copy itself and infect a computer is called _____

4. Answer in **one** word or in **one** sentence :

- i) Browser.
- ii) Iris diaphragm.
- iii) Phishing.
- iv) AFM.

5. Match the following :

A	B	C
i) Wi-Fi	Fixative	Separation technique
ii) Farmer's formula	TLC	Culture media
iii) Chromatography	Steam sterilization	Radio waves
iv) Autoclave	Internet	Root tips and anthers

(5×1=5)

SECTION – B

Answer **any four**. Differentiate the following. **Each** question carries a weightage of **1**.

6. Input unit and Output unit.
7. Colourimetry and Spectrophotometry.
8. Smears and Squash.
9. Compiler and Interpreter.
10. LAN and WAN.
11. Adware and Spyware. **(4×1=4)**



SECTION – C

Answer **any five**. Short answer questions. **Each** question carries a weightage of **1**.

12. How is INFLIBNET helpful in academic services ?
13. What is maceration ?
14. What is virtual reality ?
15. What is the principle behind spectrophotometry ?
16. What is green computing ?
17. How acetocarmine is prepared ?
18. What is vital staining ? **(5×1=5)**

SECTION – D

Answer **any six**. Short answer questions. **Each** question carries a weightage of **2**.

19. What is regressive staining ? Explain its procedure.
20. What is the principle of chromatography ?
21. What is the difference between system software and application software ? Give examples for each.
22. Explain various categories of cybercrime.
23. Whether IT is advantageous or disadvantageous in education ? Substantiate.
24. What are the features of modern computers ?
25. Explain computer networking. Mention different types of networking.
26. Explain the procedure for serial sectioning of paraffin embedded material. **(6×2=12)**

SECTION – E

Answer **any one**. Essay type questions. **Each** question carries a weightage of **4**.

27. Describe the working of a phase contrast microscope. Add a note on its application.
28. Explain various separation techniques employed in biological studies.
29. Describe the issues and concerns associated with cyber world. **(1×4=4)**