



K16U 1087

Reg. No. : .....

Name : .....

II Semester B.Sc. Degree (CCSS-Supple./Improv.) Examination, May 2016  
CORE COURSE IN BOTANY/PLANT SCIENCE  
2B02BOT/2B01PLS : General Informatics and Instrumentation  
(2012/13 Admn.)

Time : 3 Hours

Max. Weightage : 30

SECTION - A

Objective questions. **Each** carries weightage of **one**.

1. Choose the correct answer

- i) A free soft ware  
a) Windows      b) Windows XP      c) Linux      d) Altavista

- ii) Input device  
a) Keyboard      b) CPU  
c) Printer      d) None of these

- iii) Device for drawing sketch of microscopic objects  
a) Microtome      b) Camera lucida  
c) Micrometer      d) Webcam

- iv) Stain to visualize chromosomes  
a) Safranine      b) Methylene blue  
c) Aniline blue      d) Acetocarmine

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

- i) RAM is random access memory.  
ii) Virus protects computer and internet.  
iii) Chromatography is based on Beer-Lambert's Law.  
iv) CPU is a part of computer hardware.

P.T.O.



3. Fill in the blanks :

- Web based mail is
- Software that prevents unauthorized access to a network is
- \_\_\_\_\_ is a mounting medium.
- \_\_\_\_\_ is the ratio of distance travelled by substance to distance travelled by solvent.

4. Answer in **one** sentence :

- Cyber security.
- Centrifuge.
- DSL.
- Micrometer.

5. Match the following :

- | A               | B                        | C                                   |
|-----------------|--------------------------|-------------------------------------|
| i) Centrifuge   | Open wireless technology | Google                              |
| ii) Bluetooth   | Sedimentation            | Paraffin embedded material          |
| iii) Web browse | Serial section           | Exchange data over a short distance |
| iv) Microtome   | Search engine            | Centrifugal force                   |

(5×1=5)

#### SECTION – B

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

- Wi-Fi and ISDN.
- Biocomputing and green computing.
- Objective lens and ocular lens.
- INFLIBNET and NICNET.
- Carnoy's formula and Farmer's formula.
- SEM and TEM.

(4×1=4)



#### SECTION – C

Answer **any 5**. Short answer questions. **Each** question carries a weightage of 1.

- What is maceration ?
- What is an operating system ?
- Name two mounting media.
- Write on cyber addiction.
- What is e-waste ?
- What is the use of autoclave ?
- What is meant by artificial intelligence ?

(5×1=5)

#### SECTION – D

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

- Explain Electrophoresis.
- Point out the significance of IT in teaching and learning.
- Write on the various Internet access methods.
- Give an account on staining techniques.
- Explain the principle and use of pH meter.
- Give an account on e-governance.
- Write about free software movement.
- Give guidelines for proper usage of computers.

(6×2=12)

#### SECTION – E

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

- Explain opportunities and threats of IT industry.
- Give an account on various killing and fixing agents.
- Explain spectrophotometry.

(1×4=4)