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- 24. What is autoradiography? What are its applications?
- 25. Describe important types of centrifuges.
- 26. What is the difference between system software and application software?
  Give examples for each.
  (6x2=12)

### SECTION-E

## Answer any one:

Essay type questions; each question carries a weightage of 4:

- 27. Explain the issues and concerns associated with cyber world.
- 28. What are stains? Explain the use of stains in microtechnique. Mention the composition of any one stain studied by you.
- 29. What is e-Governance ? Explain various e-Governance applications in India.

(1×4=4)

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ame :	BELLEVINE STORY

II Semester B.Sc. Degree (CCSS - Reg./Supple./Improv.)

Examination, May 2014

Core Course in Botany/Plant Science

2B02 BOT/2B01 PLS : General Informatics and Instrumentation (2012 Admn. Onwards)

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 **one**:

- 1. Choose the correct answer:
  - i) 'Which of the following is free software'?
    - a) Intel
- b) AMD
- c) Microsoft
- d) Linux
- ii) Which protocol is used by browsers to communicate between two machines?
  - a) Fttp
- b) ssl
- c) tcp
- d) http
- iii) The amount of light absorbed by a material is proportional to the concentration of absorbing solution is termed as
  - a) Beer-Lambert's law
  - b) Poisson's law
  - c) Boger's law
  - d) None of the above
- iv) Ultra structure of a cell can be viewed by
  - a) TEM
  - b) Phase contrast microscope
  - c) Compound microscope
  - d) Dissection microscope

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2. Sta	ate true or false :						
	The most common computer pointing device is your finger.						
19/01-	FORTRAN is a high le	1 2000 100 17	19,0000000	,			
7775-5165	Chromophore is the p		espo	nsible for its colour	r.		
	A good preservative s						
3. Fil	I in the blanks :						
i)	Phase contrast micros	scope was invented	by				
ii) One Kilobyte is equal to _			and the second s				
iii)	The free software mov	vement was concei	ved	and developed in 1	983 by		
iv)	Abbe condenser is pla	ced between stage	and		-		
4. Ar	nswer in <b>one</b> word or in	one sentence :					
i)	USB						
ii)	LAN						
iii)	Camera lucida						
iv)	PAGE.						
5. Ma	atch the following:						
	Α	В		C			
i)	Mouse	<b>UV</b> radiation		Natural Dye			
ii)	Centrifugation	Input device		Sedimentation of organelles			
iii)	Carmine	Gravity		Sterilization			
iv)	Laminar Air Flow	Insect		Douglas Engelba	rt	(5×1=5)	
		SECTION	- B				
Answ	ver any four						

Differentiate the following: Each question carries a weightage of 1:

6. Dial-up and Wi-Fi.

7. Cyber Ethics and Cyber Crime.

3-

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- 8. FAA and DPX.
- 9. Phase contrast microscopy and fluorescence microscopy.
- 10. Colorimeter and spectrophotometer.
- 11. RAM and ROM.

 $(4 \times 1 = 4)$ 

### SECTION - C

# Answer any five:

Short answer questions; each question carries a weightage of 1:

- 12. What is E-learning?
- 13. What do you mean by fixation? Give two commonly used fixatives.
- 14. What is the principle behind colorimetry?
- 15. What is an operating system? Mention one popular OS used in computers.
- 16. What is double staining?
- 17. Write short note on academic search engines.
- 18. What is bio-computing?

 $(5 \times 1 = 5)$ 

#### SECTION - D

# Answer any six:

short answer questions; each question carries a weightage of 2:

- Explain the difference between hardware and software with their definition and uses.
- 20. Explain the use of IT in teaching and learning.
- 21. What is chromatography? What are its applications?
- 22. What are secondary storage devices of a computer system? List any two.
- 23. What are buffers? What is its function in biological systems?