VCD-14/10/15 BIOTECHNOLOGY-I F.Y.B.Sc. SEM I EXAM MARKS75 2112 HRS (100)

Figures to Right indicate marks.

Draw diagram wherever necessary. QI(A) Explain any four of the following terms.

1. Red Biotechnology

5. Blue Biotechnolgy

2. Biotechnology 3. Pharmocogenomics

6. Cloning

4. Green Biotechnology

7. Gene therapy 8. Biopesticides

Q I (B) Answer any two of the following.

(12)

(80)

1. Explain a role of biotechnology in production of antibiotics.

2. Describe in detail about biotechnology in India.

3. Discuss the public perception of biotechnology.

4. Write in detail about the different areas and application of biotechnology that touches human life.

Q II (A) Define any three of the following.

(06)

1. Refraction

Resolving power

Focal length 2.

Epifluorescence microscope

Binocular microscope

Interpupillary adjustment

Q II (B) State the significance of any one of the following.

(02)

1. Diaphragm Coarse focus adjustment knob

Q II (C) Answer any two of the following questions.

(12)

List the parts of light microscope and describe their functions. 1.

Illustratively explain condenser lense system of dark field microscope. 2.

Explain principle and applications of fluorescent microscope. 3.

Explain construction and working of phase contrast microscope. 4.

Contd 2/--

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Q III (A) Explain any three of the following. Head but being or coungid (06)Acidic dyes

- 1. Nitro stains
- 2. Chromophore group
- 5. Blue Biotechnolgybnuoqmoo ooual . 3.
- Monochrome staining
 - 6. Isoelectric point vactoral best

(02)

Refraction_

Focal length

Disphraem

Binocular interescope

Phagmocogenomics molespiosanti poni

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Q III (B) Give significance of any one of the following.

thopesticides

- 1. Gram's staining
- 2. Mycolic acid

explain a role of biotechnology in production of an Q III (C) Answer any two of the following.

- 1. Describe principle and procedure of capsule staining. Compared to the describe principle and procedure of capsule staining.
- 2. Explain different types of differential staining independ to nonqueried order of service.
- 3. Give an account on different types of basic dyes. 2000 recombined the mode instable the care. haman Inte.
- 4. Explain with any three groups of stains with examples.

Q IV Write short notes on any three of the following.

- Applications of bright field microscopy.
- Applications of phase contrast microscope.
- 3. Negative staining.
- 4. Natural dyes,
- White Biotechnology. 5.

(12)

A new way of Zymotechnology to Biotechnology 6

(C) Answer any two of the following questions.

(B) State the significance of any one of the following.

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