

Q III A EXPLAIN ANY THREE OF THE FOLLOWING TERMS (06)

1. Differential stains
2. Cationic dyes
3. Acidic dyes
4. Monochrome staining
5. Acid Chromophore groups
6. Leuco compound

Q III B GIVE SIGNIFICANCE OF ANY ONE OF THE FOLLOWING (02)

1. Romanowsky stains.
2. Heat fixation.

Q. III C ANSWER ANY TWO OF THE FOLLOWING (12)

1. Explain the principle and procedure of the staining method used for differentiation of gram positive and gram negative bacteria.
2. How is a dye different from stain? Add note on types of dyes.
3. Describe the principle and procedure of ZNCF staining.
4. Give brief account on fixation.

Q IV WRITE SHORT NOTES ON ANY THREE THE FOLLOWING (15)

1. Green biotechnology.
2. Phase contrast microscopy.
3. Negative staining.
4. Ethical issues of Biotechnology.
5. Bright field microscopy.
6. Theories of staining.

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