| (i) | Prin | ted Pages : 2 | Rol | l No | | |
|------|----------|------------------------------------|-----------------------------|---------------------------|-------------|-----|
| (ii) | Oue | stions :9 | Sub. C | ode: 03 | 3 6 | 9 |
| (-) | | | | parameter and a second | 0 0 | 4 |
| | | | H-MORTONA | | | |
| | | B.A./B.Sc | . (General) 4th | Semester | om\A' | 1 |
| | | D. | | Huorescence (m) | | |
| | TD | BIO aper : A–Adva | O-CHEMISTI | | (d) es | |
| | operate. | Milo nousaide | is how objective | ega) mrsk iti ez | Discu | |
| | | wed: Three Ho | | [Maximum] | | 36 |
| Not | e: (1) | Question No. 1 | | no enion | Write | |
| | (2) | Attempt any fo from each of th | | ons and at least o | | ion |
| 1. | Writ | te notes on the following | lowing: | offeli adteauseib | | |
| *117 | (a) | Surface Tension | ve tracers in the | ise of radioactiv | (a) | |
| ě. | (b) | Units of radioact Nature of isotor | ANTONIA STATE ASSESSMENT NA | | a 8 (d). | |
| | (d) | Gamma counter | | | 4×2 | =8 |
| | | | SECTION-I | pplications of individual | | |
| 2. | Disc | cuss the application | ns of the followi | ng biological sys | tem: | |
| | (a) | Membrane filtra | | briefly | | 4 |
| 4 | | | | uclear Magnetic | (a) N | 3 |
| 1 | (b) | Diffusion. | 99000 | lectrin Spin Res | 3 (d) | |

| 3. | Discuss the following biological techniques: | 1111-1-1 | |
|----|---|----------|-----------|
| | (a) Cell counting | SANTA | (12 |
| T | (b) Cryopreservation, | | |
| | SECTION-II | | |
| 4. | Write applications of following techniques: | | |
| | (a) Fluorescence immunoassay | | 4 |
| | (b) FISH. | | 3 |
| 5. | Discuss in detail the principle and application of Fl activated sorting. | | ence 7 |
| | SECTION-III | | |
| 6. | Write notes on: | | |
| | (a) Labelling of biochemical compounds | | 4 |
| | (b) Radioactive decay. | | 3 |
| 7. | Briefly discuss the following: | | |
| | (a) Use of radioactive tracers in the study of enzyr mechanism and metabolic pathway. | | tion 4 |
| | (b) Safety measures in handling radio isotopes. | | 3 |
| | SECTION-IV | | |
| 8. | Write applications of following techniques: | | |
| | (a) MALDI | | 4 |
| | (b) Mass Spectrometry. | | 3 |
| 9. | Discuss briefly: | | |
| | (a) Nyalon Magnetia Resource | | 4 |
| | (b) Electron Spin Resonance. | (d) | 3 |
| | | | , |

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