Paper / Subject Code: 87604 / Cell & Tissue Culture

Time: 2 Hours Marks:40

Question 1 is Compulsory Attempt any 4 Questions from the remaining

| a | Draw laboratory design and layout of large Tissue culture laboratory | 2 |
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| b | Enlist Different advantages and Disadvantages of serum in Media | 2 |
| c | Write short note on Air lift fermenter with diagram | 2 |
| d | Define stem cell culture and write it's types | 2 |
| a | what are the requirements for Tissue Culture laboratory | 3 |
| b | Write in detail about Common Cell culture Media | 3 |
| c | Which are different types of Cell lines and write their characteristics | 2 |
| a | Write a note on Disaster Management | 3 |
| b | Write a note on Mechanical Disaggregation | 3 |
| c | Enlist the key barriers to large scale Mammalian cell culture | 2 |
| a | Write a note on organ cultures | 3 |
| b | Define Cryopreservation and write in brief about cryoprotective agents. | 3 |
| c | Enlist Different prospects of Stem cell research in medicine | 2 |
| a | Which are different Microbial Contaminants in cell culture and how they are detected | 3 |
| b | Write in brief Insulin Production using Cell culture | 3 |
| c | Write a short note on Disaggregation by Collagenase | 2 |
| a | Which are the Basic components and their roles in different cell culture media | 3 |
| b | 'X', OX 'YO 'Y', Y', 'UX 'Y', 'YO, 'UX 'Y', 'YO, 'Y', 'YA, 'X', 'Y', 'Y', 'Y', 'Y', 'Y', 'Y', 'Y' | 3 |
| Ve S | Write a note on cell banks with examples | 2 |
| | b c d a b c a b c a b c | laboratory b Enlist Different advantages and Disadvantages of serum in Media c Write short note on Air lift fermenter with diagram d Define stem cell culture and write it's types a what are the requirements for Tissue Culture laboratory b Write in detail about Common Cell culture Media c Which are different types of Cell lines and write their characteristics a Write a note on Disaster Management b Write a note on Mechanical Disaggregation c Enlist the key barriers to large scale Mammalian cell culture a Write a note on organ cultures b Define Cryopreservation and write in brief about cryoprotective agents. c Enlist Different prospects of Stem cell research in medicine a Which are different Microbial Contaminants in cell culture and how they are detected b Write in brief Insulin Production using Cell culture c Write a short note on Disaggregation by Collagenase a Which are the Basic components and their roles in different cell culture media b Write in brief H5N1 Vaccine Production |
