

S. P. College , Chandrapur.
MODEL EXAM- 2013
Microbiology (Part I)Sem I Paper II

Time : 3 hrs

Max marks : 50

Note : All questions are compulsory and carry equal marks.

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|-----------|---|--------------|
| 1 | Discuss the mechanism of Dark field microscope and give its application | 10 |
| OR | | |
| | Give the principle of Gram staining. Give the difference between Gram staining and Simple staining. | 10 |
| 2 | Give different methods of isolation of pure culture. | 10 |
| OR | | |
| | Discuss microbial control by chemical agents. | 10 |
| 3 | | |
| a | Write short notes on oil immersion objective. | 2 1/2 |
| b | Give the method for Endospore staining. | 2 1/2 |
| c | Give the role of Stock culture collection centres. | 2 1/2 |
| d | Write short notes on phenol coefficient. | 2 1/2 |
| OR | | |
| e | Give applications of Fluorescent microscope. | 2 1/2 |
| f | Give the classification of stain. | 2 1/2 |
| g | Give different methods for isolation of pure culture. | 2 1/2 |
| h | Write short notes on plasmolysis and plasmoptysis. | 2 1/2 |
| 4 | | |
| a | Give difference between SEM and TEM. | 2 1/2 |
| b | Write short notes on theories of staining. | 2 1/2 |
| c | Write short notes on freeze drying. | 2 1/2 |
| d | Write short notes on penicillin antibiotic. | 2 1/2 |
| OR | | |
| e | Give difference between light and phase contrast microscope. | 2 1/2 |
| f | Write method of fungal staining. | 2 1/2 |
| g | Give difference between selective and differential media. | 2 1/2 |
| h | Give mode of action of alcohol. | 2 1/2 |
| 5 | Answer any 10 | |
| a | Who discovered first crude microscope. | 1 |
| b | Give different types of optical lenses. | 1 |
| c | Give different types of objective lenses. | 1 |
| d | Define chromophore. | 1 |
| e | Define auxochrome. | 1 |
| f | Define stain. | 1 |
| g | Give names of two culture collection centers. | 1 |
| h | Define pure culture. | 1 |
| i | Define axenic culture. | 1 |
| j | How UV radiations kill bacteria? | 1 |
| k | What is photoreactivation? | 1 |
| l | Define Sanitizer. | 1 |

ALL THE BEST