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The West Bengal University of Health Sciences B.Sc. in Medical Microbiology 1st Semester June-July, 2022 Examination

Subject : General Microbiology

Time : 2 hrs. ESTD 2017 Full Marks : 50 Attempt all questions TRAL LIF 1. Give the answer of the following questions : 10 x 1 What is bacterium? a) b) What is flagellin? What are the components of bacterial capsule? c) d) What do you mean by bacterial morphoplogy? Write the structural composition of bacterial endospore. e) f) What is the source of agar. g) Write the composition of gram negative bacterial cell wall. h) What is minimal media? i) Differentiate between dye and stain. j) What is porin? Answer any four of the following questions : 2. 4×2 Define primary stain and counter stain? a) Describe the effect of counter stain on gram staining? b) c) Define basic stain and acidic stain? Write the principle of autoclave. d) e) Write the function of fimbriae and pili. f) Why is moist heat sterilization more effective than dry heat sterilization? Answer any four of the following questions. 3. What is acid fast bacteria? Why are they acid fast? a) 2+2Differ between gram positive and gram negative bacterial peptidoglycan layer. b) 4 c) Write the basic steps to preparation of nutrient agar media for the cultivation of bacteria. 4 d) Briefly describe the different waste generated from hospital. 4 e) Write the process of FAECES collection from patient and transport. 4 f) Differ between vegetative cell and spore form of bacteria. 4 Answer any two of the following questions: 4. Classify the bacteria with respect to their shape with diagram and give example each type. Write a)

- b) Define sterilization. Describe the principle and usage of a hot air oven.
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- c) Write the function of capsule. Streptococcus and Staphylococcus both are coccus but their arrangement is different-explain. 4+4