



قائمة الاسئلة

F-Exams-2024-2025-Sem1-Day00 :: 4 صناعية ميكروبيولوجيا : (50) الامتحان درجة -2 الفترة - العلوم كلية - عام - الدقيقة احياء قسم-

- 1) Fermenters from 100,000 liters to 500,000 liters
 - 1) - Laboratory fermentor
 - 2) Factory fermentor
 - 3) - Experimental fermentor
 - 4) - None of these answers
- 2) Downstream processing
 - 1) - Product purification and the product
 - 2) - Effluent wastes
 - 3) Both answers true
 - 4) - None of these answers
- 3) Agaricus in industrial microbiology produces:
 - 1) - Various enzymes
 - 2) Edible fruiting body
 - 3) - Ergot alkaloids
 - 4) - All answers true
- 4) Growth medium and production medium in industrial microbiology
 - 1) - Always the same
 - 2) Often the same
 - 3) - Always different
 - 4) - Often different
- 5) A complete analysis for the microorganism in industrial microbiology means
 - 1) - Knowing the composition of the organism
 - 2) - knowing the elements which must be added to the production medium
 - 3) knowing the growth elements for the microorganism
 - 4) - None of these answers
- 6) Lactose is more suitable than glucose in some processes of penicillin production
 - 1) Because of the slow rate of its utilization
 - 2) - To increase the production quality
 - 3) - Because of the high rate of its utilization
 - 4) - To increase the production quantity
- 7) The disposal of industrial microbiology waste
 - 1) - Some times no further use.
 - 2) - Some times find use as raw materials for other industries
 - 3) Both answers true
 - 4) - None of them
- 8) Precursors often stimulate production of
 - 1) secondary metabolites
 - 2) - Primary metabolites
 - 3) - Both
 - 4) - None of these answers
- 9) Products of Primary Metabolism
 - 1) - associated with growth
 - 2) - associated with the maintenance of life
 - 3) Both answers true
 - 4) - None of these answers
- 10) Secondary metabolite production is believed to be controlled by





- 1) - Organism's chromosomes
 - 2) Plasmids
 - 3) - Both answers true
 - 4) - None of them
- 11) Isolation procedures for microorganisms in industrial microbiology are carried out by
- 1) - Enrichment with the substrate.
 - 2) - Enrichment with toxic analogues of the substrate.
 - 3) - Testing microbial metabolites for bioactive activity
 - 4) All answers true
- 12) By reducing foaming, fermentation can be increased by
- 1) - 20–30%
 - 2) 30–45%
 - 3) - 45–55%
 - 4) - None of these answers
- 13) At 20°C, water holds only about parts per million of O₂
- 1) - 11
 - 2) - 10
 - 3) 9
 - 4) - 8
- 14) A simple batch fermentor may consist of
- 1) - wood
 - 2) Concrete
 - 3) - carbon-steel
 - 4) - All answers true
- 15) Industrial microbiology means:
- 1) - large-scale product(s)
 - 2) - profit motivated production
 - 3) Both answers true
 - 4) - None of them
- 16) Fermentation has different meanings include
- 1) - Microbial physiology
 - 2) - industrial microbiology
 - 3) - Food
 - 4) All answers true
- 17) The only organisms of current industrial importance in the Proteobacteria are:
- 1) - Acetobacter
 - 2) - Gluconobacter
 - 3) - Zymomonas
 - 4) All answers true
- 18) The difference between the other Firmicutes and Actinobacteria
- 1) - Firmicutes contain G+C% more than Actinobacteria
 - 2) - Firmicutes contain G+C% equal to Actinobacteria
 - 3) Firmicutes contain G+C% less than Actinobacteria
 - 4) - None of these answers
- 19) The best culture method for industrial microbiology is
- 1) - solid culture
 - 2) - semi-solid culture
 - 3) liquid culture
 - 4) - All answers true





- 20) Marine environment is the new habitats for the isolation of the microorganism(s)
- 1) TRUE.
 - 2) FALSE.
- 21) One of the ways to manipulate genetic material using external genetic material
- 1) Transduction and Genetic engineering
 - 2) Conjugation
 - 3) Heterokaryosis
 - 4) All answers true
- 22) The criteria supporting the use of a microorganism for industrial purposes
- 1) The properties which will enable the organism to survive
 - 2) The production in the face of competition from contaminants
 - 3) Both answers true
 - 4) None of them
- 23) Pure strain brewing was carried out for the first time in
- 1) 1780
 - 2) 1880
 - 3) 1883
 - 4) 1900
- 24) Foams are formed via
- 1) froths
 - 2) gas bubbles
 - 3) Both
 - 4) None of the previos
- 25) In Lab. fermentors temperature control may be achieved by:
- 1) circulating refrigerated water in pipes
 - 2) immersing in a water
 - 3) Both
 - 4) None of these answers
- 26) It provide the organism growing within by pH, Temp., oxygen, etc.
- 1) medium
 - 2) fermentor
 - 3) laboratory
 - 4) All answeres true
- 27) analysis of the collective genome of an assemblage of organisms
- 1) Proteomics
 - 2) Metagenomics
 - 3) Both
 - 4) None of these answers
- 28) it necessary to produce cDNA for expression of a eukaryotic gene in E. coli
- 1) because E.coli can not read eucaryotic exons
 - 2) because E.coli can not read eucaryotic intronsons
 - 3) Both answers true
 - 4) None of these answers
- 29) PCR is useful in industrial microbiology to
- 1) generate large amounts of DNA for genetic engineering
 - 2) determine with great certainty the identity of an organism to be used
 - 3) determine rapidly which organism is the cause of contamination
 - 4) All answers true
- 30) Upstream processing means





- 1) - fermentation raw material and production microorganism
- 2) - fermentation process
- 3) - effluent wastes
- 4) + All answers true