Birla Institute of Technology & Science – Pilani, Hyderabad Campus First Semester 2022-2023 Quiz 2 (Open book) Bioprocess Technology, BIO F451

Date: 10.12.2022		22	Duration: 30 minutes	Total Marks: 30 M
Answe	r ALL the	e questions in the given s	equence ONLY.	
1.	a)	m cheese, a mixture of Fermented milk sugar Fats		apon b) Lactic acid d) All of the above
2.	a)	rization of the raw mat Heat treatment Ultrasonication		e making process by b) Addition of metabisulfite d) Filtration
3.	a)	of the operation does Media preparation Effluent treatment		m processing b) Inoculum development d) Storage of raw material
4.	a)	oil contains Amyl alcohol n-propyl alcohol		b) Isoamyl alcohold) All of the above
5.	a)	ble of an enzyme used Creatine kinase Glucose oxidase		b) Streptokinased) All of the above
6.	a)	ble of distilled alcohol Beer Whiskey		b) Wine d) Cider
7.	a)	llin production in the for Lag phase Stationary phase		place in the b) Log phase d) Death phase
8.	a)	a) Proteaseb) Cellulasec) Alpha amylased) Lipase		
9.	a)	nany grams of ethanol 92 180		grams of glucose? b) 90 d) 46

10. The following raw material is mostly used in the wine making industry a) Pineapple juice b) Apple juice c) Grapes juice d) None of the above 11. Glutamic acid is used for the following purposes a) As nutritional supplement b) As flavour enhancer c) In the cosmetic industry d) All of the above 12. In the alcohol production process, rigorous pretreatment is necessary for the following raw materials b) Starch a) Sucrose c) Lignocellulosic biomass d) None of the above 13. Malt beverage is produced from a) Barley grains b) Wheat grains c) Soybean d) Rice 14. The example of a bottom fermenting yeast is a) Saccharomyces carlsbergensis b) *S. cerevisiae* c) S. ellipsoideus d) None of the above 15. The following chemicals are present in hops a) Tannins b) Resins c) Essential oils d) All of the above 16. Which of the fermentation type produces the highest amount of ethanol? a) Batch b) Batch with yeast recycle c) Continuous d) Continuous (immobilized yeast) 17. Which one of the following is the correctly matched pair of a product and the microorganism responsible for it? a) Ethyl alcohol – yeast b) Acetic acid – Lactobacillus c) Cheese – Nitrobacter d) Curd – Azotobacter 18. Which of the following organic acids were produced by fermentation? a) Oxalic acid b) Lactic acid c) Aspartic acid d) Propionic acid

 19. Which of the following is a human fibroblast derival a) TransCyte[™] c) Cytoskin[™] 	ed skin substitute? b) Carticel [™] d) Skinocel [™]			
20. Intellectual Property Rights (IPR) is a process which ideas that are ofa) Ethical valuec) Social value	ch protects the use of information and b) Commercial value d) Moral value			
21. Which of the following can be patented?a) Machinec) Composition of matter	b) Processd) All of the above			
22. Which biofuel has the highest motor octane numbera) Unleaded gasolinec) Ethanol				
23. Which of the following is NOT used to produce ethanol?a) Corn starchb) Oil crops				
 c) Cane sugar 24. What medicine is produced using fermentation? a) Paracetamol 	d) Beet molassesb) Penicillin			
c) Morphine25. Which of the following is true for Ale beer?a) Top fermenting yeast is used	d) Cough syrupb) Fermentation finishes by 5-7 days			
 c) Quantity of hops used is more than Lager d) All of the above 26. The process of making malt as soluble as possible by using enzymes, adjuncts, etc. is known as 				
a) Brewing c) Mashing	b) Maltingd) Pitching			
27. Lagers are the beer in which fermentation is carrieda) Top fermenting yeastc) Either of these	d out usingb) Bottom fermenting yeastd) Middle fermenting yeast			

28. Sake is

a) Rice beer or wine of India	b) Wheat beer or wine
c) Barley beer or wine	d) Rice beer or wine of Japan
lortis	

29. Wort is

- a) An aqueous extract of malt
- c) Coagulated protein obtained in boiling
- b) Malted barley

d) None of the above

30. Which of the following microorganism is used for the production of citric acid?

- a) Lactobacillus bulgaricus
- c) Aspergilus niger

b) Saccharomyces cerevisiaed) Streptococcus lactis