		2 ½ Ho	urs	Total Marks: 75			
2. A 3. I 4. U	Attempt all questions All questions carry ed Draw neat labeled di Jse of log tables and Gor Q 2, Q 3 and Q 4	qual marks. agrams whereve non-programm	able calculat				
Q 1	Do as directed (A	any fifteen)		15			
1.	sampling requires minimum knowledge of bulk material.						
	a) Systematic	b) Random	c)(	Gross			
2.	Which of the following affects the procedure of sampling?						
	a) Size of sample	b) Cost of sa	mpling c) I	Location of sample			
3.	Partition coefficient and distribution ratio will be						
	<ul><li>a) always equal</li><li>b) always differen</li><li>c) equal if molecu</li><li>d) equal when mo</li></ul>	lar condition is sa					
4.	High boiling point liquids are separated using						
	a) Fractional distillation b) Vacuum distillation c) Filtration						
5.	Liquid-liquid extraction is also known as						
	a) Solvent extracti	on b) Fil	tration	c) Vacuum distillation			
6.	Solubility	with increas	se in tempera	ure			
	a) increases	b) decreases	c) r	emains the same			
7.	Centrifugation is used for separation of solid from						
CON PROPERTY.	a) Solid	b) Liquid	c) (	Gases			
8.	Which of the following is a primary metabolite?						
	a) Amino acids	b) Te	rpenoids	c) Phenolics			
9.	Cholesterol is an example of						
	a) Steroid	b) Phenolic	c) A	Alkaloid			
10.	Isoprenes are the basic unit of						
300	a) Terpenoids	b) Alkaloids	c) I	Phenolics			
11.	What does TLC stand for?						
	a) Thick layer chromatography b) Thin layer chromatography						

c) Thick liquid chromatography

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12.	Which of the following is not a fully automated procedure?							
	a) GC	b) HPl	ĹC	c) HPTLC	2000			
13.	Essential oils are mostly derived from							
	a) Plants	b) Animals	c) S	oil				
14.	Which of the following is an example of a polymer?							
	a) Ethene	b) Polyethene	c) E	thane				
15.	Which of the following is a heat stable polymer?							
	a) Plastic	b) Thermopla	stic	c) Thermosets				
16.	Which of the following is an addition polymer?							
	a) Polyethene	b) Polyester	c) P	olyamides	888			
17.	Which of these is a physical method of nanoparticle synthesis?							
	a) Mechanical grinding b) Nucleation c) Sol-gel formation							
18.	Which of the following can be used to make nanotubes?							
	a) Carbon	b) Sulfur	c) P	hosphorus				
<ul><li>19.</li><li>20.</li></ul>	solutions? a) True solution Which of the inanoparticles?	following microscopes	olution is used for c	c) Suspensions characterization of				
). 2 A	Explain the importance of sampling and sampling techniques.				08			
2. 2 B	Describe the process of distillation as a separation technique.							
			OR .					
2.2 C	Give the basic principles of sedimentation.							
2. 2 D	What is solvent extraction? Explain in brief.							
2.3 A	Explain the classification of natural products based on biosynthesis.							
2. 3 B	What is HPTL	.C? Give its application	ns in analysis	s of natural products.	07			
			OR					
2.3 C	Give the steps of structure determination of natural products.							
). 3 D	What are phenolics? Give their significance and uses.							
). 4 A	What are the different types of polymers? Explain with examples.							

		Y. A.								
Q. 4 B	Compare and contrast between addition and condensation polymers giving									
	suitable examples.									
OR STATES										
Q. 4 C	Explain the different methods of synthesis of nanomaterials.	08								
_	What are nanoparticles? Explain their properties.	35 40								
Q. 4 D	what are nanoparticles? Explain their properties.	07								
Q. 5	Write Short notes on any three of the following	15								
a.	Non-Random Sampling.									
b.	Secondary metabolites.									
c.	Alkaloids.									
d.	Thermoplastics.	900								
e.	Nanomaterial.	?								