<b>QUIZIZZ</b> Basic Principles of Chromatography and Operational technique	NAME : CLASS : DATE :			
<ol> <li>Which of the following techniques can be us gaseous substances into their individual con calibrated column?</li> </ol>	-			
a) Thin layer chromatography	<ul> <li>b) High pressure liquid chromatography (HPLC)</li> </ul>			
🗌 c) Gas liquid chromatography (GC)	□ d) Column chromatography			
2. Characteristic feature of any type of chroma	atography:			
<ul> <li>a) Involves use of molecules that are soluble in water</li> </ul>	□ b) Always involves the use of carrier gas			
□ c) Involves the use of mobile and stationary phases	<ul> <li>d) Can determine the retardation factor for separated components.</li> </ul>			
<ol> <li>The amount of time taken for a separated a through the column to reach the detector:</li> </ol>	inalyte to pass			
□ a) Retention time	□ b) Dead time			
C) Selectivity factor	☐ d) Relative time			
4. Detectors used in Gas Chromatography (GC	.)			
a) Photo ionization detectors	□ b) Refractive index detector			
□ c) Electrochemical detectors	$\Box$ d) None of the above			
5. Factors that influence separation of compo	nents in GC			
□ a) Carrier gas flow rate	□ b) Column length/column temperature			
□ c) Amount of material injected	$\Box$ d) All of the above			

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6.	Isocratic elution in HPLC		
	a) Mobile phase composition is varied during the separation process	; 🗆 b	<ul> <li>Stationary phase and mobile phase compositions are kept constantly during separation process</li> </ul>
	c) Mobile phase composition is kept constant during the separation process	: 🗆 d	) None of the above
7.	All chromatography techniques are used to identify and quantify separated analytes in a statement <b>True or False</b> ?		
8.	Which of the following best describes packe	ed colu	ımn in GC
	a) Stationary phase is coated in the inner wal of the column	I 🗆 b	) Mobile phase is coated on the column
	c) Stationary phase is coated directly in the column		) None of the above
9.	Low retention time of separated componen chromatography implies that:	its in li	quid
	a) Components have more affinity to the mobile phase	🗆 b	) Components have more affinity to the stationary phase
	c) Components interact more with the stationary phase		) All of the above
10	. Reverse phase HPLC:		
	a) Stationary phase is polar and mobile phase is non polar	e□ b	) Stationary phase is non polar and mobile phase is moderately polar
	c) Hydrophobic analytes are less retained		) More polar analytes are more retained
11.	· Common detector(s) used in HPLC		
	a) Refractive index detector	🗆 b	) Thermal conductivity Detector
	c) Ultra Violet-Visible detector		) (a) and (c)

12. The number of peaks in a chromatogram ir	ndicates
<ul> <li>a) How well components in the mixture has been separated</li> </ul>	□ b) How efficient the column is
$\Box$ c) Number of components in the mixture	□ d) All of the above
13. Which of the following is(are) mobile phase	s used in GC?
a) He	b) Nitrogen
C) Argon	$\Box$ d) All of the above
14. Modes of gas inlet in GC:	
🗌 a) Split	□ b) Inject port
□ c) Splitless	🗌 d) (a) & (c)
15. In liquid chromatography the amount of se	narated
components on a chromatogram can be de	
a) Retention time	🗌 b) Peak area
🗌 c) Peak width	🗌 d) Base of peak
16. Major distinction between HPLC and GC	
□ a) Presence of injection port	□ b) Presence of column
$\Box$ c) Presence high pressure pump	$\Box$ d) All of the above

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Answer Key				
1.	С			
2.	С			

1.	c	5.	d	9.	а	13.	d
2.	С	6.	С	10.	b	14.	d
3.	а	7.	True	11.	d	15.	b
4.	а	8.	С	12.	С	16.	С