## 0201N1459

## M.Sc. Sem.-1 Examination

## 404

## Pharma Science January-2024

Time: 2-30 Hours]

[Max. Marks: 70

0.1							Max. Marks :	/0	
Q.1A	What is important	ce of stereo	chemistry in	n pharmacei	utical science	ce?	VA	1	
Q.1B	What is importance of stereochemistry in pharmaceutical science?  Write about Eantiomeric drugs with example – Warfarin and Fluoxetine							+	
	OR							+	
Q.1A	Write a note on Stereochemistry.								
Q.1B	What should be considered to compare isomeric drugs?								
Q.2 A	Describe the process of nitrogen fixation and its importance in the nitrogen avalage.								
Q.2 B	Discuss the biochemical functions of vitamin B12 (cyanocobalamin) in the hymner by I							-	
	Explain the role of zinc in metallo enzymes and its significance in biological processes								
·	UK							+	
Q.2 A	Describe the bioch	nemistry of	non-metals	such as pota	assium (K)	and their n	hysiological roles	+	
~ ~ ~	Describe the biochemistry of non-metals such as potassium (K) and their physiological roles. Explain the mechanism of the sodium-potassium (Na-K) pump.								
Q.2 B	Write a detailed note on toxic Metals and Chelation Therapy								
Q.3 A	Write a detailed note on the premises, especially the Storage and Weighing area							7	
Q.3 B	Describe the Pharmaceutical quality system.							$\frac{1}{7}$	
	OR							+-'	
Q.3 A	Describe the role of documentation for quality control in GMP.								
Q.3 B	Discuss the complaints and product recall in detail.							7	
Q.4 A	Solve the following question:							7	
	In alphabetical order, the six most common last names in the United States are Brown, Davis,							′	
	Johnson, Jones, Smith, and Williams (The World Almanac 2006). Assume that a sample of 50								
	individuals with one of these last names provided the following data.								
		Brown	Williams	Williams	Williams	Brown			
		Smith	Jones	Smith	Johnson	Smith			
		Davis	Smith	Brown	Williams	Johnson			
		Johnson	Smith	Smith	Johnson	Brown			
		Williams	Davis	Johnson	Williams	Johnson			
		Williams	Johnson	Jones	Smith	Brown			
		Johnson	Smith	Smith	Brown	Jones			
		Jones	Jones	Smith	Smith	Davis			
		Davis	Jones	Williams	Davis	Smith			
		Jones	Johnson	Brown	Johnson	Davis			
	Summarize the data by constructing the following:								
	a. Are these data categorical or quantitative?								
	b. Provide Relative and percent frequency distributions								
	b. Provide Relative and percent frequency distributions.  Construct a bar chart and pie chart.								
Q.4 B	Ashortage of candidates has required school districts to the school districts								
`	Ashortage of candidates has required school districts to pay higher salaries and offer extrasto							7	
	attract and retain school district superintendents. The following data show the annual basesalary (\$1000s) for superintendents in 20 districts in the greater Rochester, New York,								
	area(The Rochester Democrat and Chronicle, February 10, 2008).								
	10= 10+ 10+ 10+ 10+ 10+ 10+ 10+ 10+ 10+ 10+								
			172 182						
			1/2 102	170 173	163	~			

	Use classes of	150–159, 16	60–169, and se	o on in the	following.		THE CONTRACTOR OF THE CONTRACT	T			
	a. Show the frequency distribution.										
	b. Show the cumulative frequency distribution.										
	Draw Histogram. OR										
Q.4 A	Nielsen Media Research provides two measures of the television viewing audience:										
Q.171	television program rating, which is the percentage of households with televisions watching program, and a television program share, which is the percentage of households watching program among those with televisions in use. The following data show the Nielsen television ratings and share data for the Major League Baseball World Series over a nine-year period (Associated Press, October 27, 2003).  Rating (x) 19 17 17 14 16 12 15 12 13 Share (y) 32 28 29 24 26 20 24 20 22  a. Compute sample covariance.										
Q.4 B	Compute and interpret the sample correlation coefficient.  The cost of consumer purchases such as single-family housing, gasoline, Internet services,tax										
	preparation, and hospitalization were provided in The Wall-Street Journal (January 2,2007).										
	Sample data tyj	pical of the	cost of tax-r	eturn prepa	ration by	services such	as H&RBlock are				
	shown below.				•						
		120	230	110	115	160					
		130	150	105	195	155					
		105	360	120	120	140					
		100	115	180	235	255					
Q.5	a. Compute the Compute the value Answer the Fol	riance and s	tandard devia	tion.				14			
1	Define GMP.										
2	Define authorized person.										
3	Define and discuss CAPA.										
4	Define: Ordinal scale of measurement										
5	Define: Cluster Sampling										
	Write down the formula of coefficient of variation										
	write down the		Define: Median								
6 7											
6		•									
7	Define: Median										
6 7 8 9	Define: Median  Define Chilarity  Define Stereoiso  Name one toxic	omer metal and b									
6 7 8 9	Define: Median Define Chilarity Define Stereoiso	metal and b	sential and a	trace eleme	nt and desc	cribe their rol	es in biological				