11/28/2020

18ZOP18

Exam Date & Time: 28-Sep-2020 (02:00 PM - 05:45 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image : 30mins

MSc DEGREE EXAMINATION MAY 2020 (Fourth Semester)

Branch - ZOOLOGY

BIOSTATISTICS AND RESEARCH METHODOLOGY [18ZOP18]

Marks: 75

SECTION A

Duration: 210 mins.

Answer all the questions.

1)	Which one of the following is a primary data?									
	(i) Data from Zoological s (iii) News paper data	urvey of India (ii) Investigator collected data (iv) Government census data	(1)							
2)	Frequency polygon and frequency curve are alternative forms to									
	(i) Bar diagram	(ii) Histogram	(1)							
	(iii) Ogive	(iv) Pie diagram	(1)							
3)	Which is a convenient mathematical tool to study the correlation between two random variables?									
	(i) Scatter diagram	(ii) Pie diagram	(1)							
	(iii) Scapula diagram	(iv) Ascii diagram								
4)	Which one of the following is used to test the relationships between categorical variables?									
	(i) DMRT	(ii) Chi-square	(1)							
	(iii) ANOVA	(iv) Student's t-test								
5)	Identify the most common precipitating fixative.									
	(i) Osmium tetroxide (ii) Potassium tetroxide									
	(iii) Chromic acid	(iv) Methanol	(1)							
6)	The maximum revolution of ultra-centrifugation is									
	(i) 50,000 per minute									
	(iii) 10,000 per minute	(iv) 80,000 per minute	(1)							
	() 10,000 per minute	(iv) oo,ooo per imitute								
7)		of visible light in spectroscopic technique?								
	(i) Deuterium arc lamp		(1)							
	(iii) Photomultiplier tube	(iv) Light emitting diodes.								
8)	A State of the second second		*(1)							

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11/28/2020	Mich abromato	wanter has the	atationam, nh:	18ZOP18	nobile phase a	ra						
	Which chromatog liquid?	graphy has me	stationary pha	ise, as well as i	noone phase a	.e						
	(i) Adsorption) Gel column								
1. S. 1.	(iii) Partition col	umn chromato	graphy (iv) Ion exchang	e column chro	matography						
0				J. A. Harrison and St.			-					
9)	The most common size for index card is											
		6 inches y 8 inches		4 by 6 cm 12 by 8 cm		(1),					
	(11) 12 0	y o menes	(1)	12 0y 8 Cm								
10)	What is no	mination?				a the						
10)		What is pagination? (ii) Page number										
	(iii) Footn			Illustrations		(1	1)					
			SECTIO	NB								
States and States	r all the questions.											
11)	What is pr	imary data? E	cplain how do	you collect th	em?							
						(7	7)					
a)												
[0]	R] Draw a p	ie chart using	the followin	g data (Convei	rt into percent	age and						
b)	degree).											
	Football	Tennis	Cricket	Water polo	Pingpong	(7	7)					
	4 -	5	6	1	4							
10)												
12)		Hospital records show that the patients suffering from a certain disease, 75% die of it. What is the probability that of 6 randomly selected patients,										
	4 will reco		- probability (nai or o raimor	my selected pa	ments, (7	7)					
a)												
[O] b)	Write the o	Write the differences between student's t test and chi-square test.										
13)	Describe t	Describe the single staining process with suitable example.										
				A AN AL		. (7	7)					
a)												
[OI	Discuss the	e working prine	ciples of cent	rifugation.			7).					
b)												
14)	Describe	the principle a	nd applicatio	n of paper chro	omatography.							
						(7	7)					
a)							11					
[OI	Write a she	ort note on NM	IR.			17	7)					
b)						(7)					
15)	What is	reference col	lection? Me	ntion the im	portance in i	ournal						
2	publicatio		110		Januaroo III J	(7	7)					
a)			and the second									
[OF	1)					(7	7)					
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	+ states all a											

11/28/2020

b)

Comment on slide presentation.

SECTION C

18ZOP18

	Roll. No	1	2	3	4	5	6	7	8	9	10		
	Marks	33	35	44	34	41	45	39	46	36	36		
							*						
	Determine the	e coe	fficie	ent co	orrela	tion	for t	he fo	llow	ing d	lata or	n the le	noth
	(X in cm) and	weig	ght (Y	in g) of f	ish.					and O	a are it	-5
	IX	5	7	3	11	19	1	2 8	2	3			
	Y	8	9	5	4	9	1			9		× .	
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	Describe the with the with the with the second seco					ia ap	oplica	mon	SOI	rans	m 1881	on elec	tron
	meroscopy w	1011 11	cat G.	iagia.						9 ¹⁹ 1			
	Elucidate the p	rinoi	nlo 2	ndar	mlia	tion	of	inihi.		-			
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