**RPN - 19** 

P.T.O.

M.Com. (Semester – I) Examination, November 2017
COC 102: RESEARCH METHODOLOGY AND STATISTICAL ANALYSIS
(OA18)

ed at random will have its		deun (	JA18	) terti y					
Duration: 3 Hours		ved III					To	otal Mark	s: 6
	stion No. ver <b>any t</b>	1 cons	sist of	5 <b>com</b> tions fr	om 2,	ry que: 3, 4, 5,	stions (	ual mark of 2 mark 3 and 9.	
1. Answer the following	question	s:						(2×	5=10
What do you unde	rstand b	y ecol	ogical	fallacy	in rese	earch ?	o le offi		
ii) Importance of liter	ature rev	/iew in	resea	rch.					
iii) What do you mear	by data	minin	g?						
iv) Define Kurtosis.									
v) How would you ev	aluate a	reseal	rch rep	ort?					
2. The following table gi are totally or partially k age and blindness.									
Age (years)	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	
No. of Persons ('000		60	40	36	24	111 9	6	3	
Blind	55	40	40	40	36	22	18	15	
3. x) In an audit of a c									
If 10% of all bills co	ntains a	n error	, wnat	is the p	orobab	unty tha	at the a	uditor wi	.11
i) exactly 2 bills w	ith error								
ii) atleast 2 bills no	t contair	ning er	ror.						
y) Articles are produ	ced in a	large	factor	y and	3% of	them	are fou	und to be	е
defective. They are	e dispato	ched in	batch	es of 1	00. W	hat is t	he prol	pability o	of ,
getting i) Non defective									•
II) Two defeative									

RPN-19



- 4. A census of rentals for apartments in a city follows a normal distribution with mean Rs. 800 and standard deviation Rs. 100.
- 10
- i) What is the probability that an apartment selected at random will have its rent between Rs. 800 and Rs. 1,000?
- ii) What percentage of apartments will have their rent between Rs. 600 and Rs. 900?
- iii) What percentage of apartments will have their rent below Rs. 600?
- 5. A men buys 50 electric bulbs of Surya and 50 electric bulbs of Bajaj. We find that Surya bulbs gives an average life of 1500 hrs. with a standard deviation of 60 hrs. An Bajaj bulbs gives an average life of 1512 hrs. with a standard deviation of 80 hrs. Is there a significant difference in mean life of two make of bulbs? Test it at 1% level of significance.

10

- 6. Identification of research gap is an important aspect research process. Discuss how does the research gaps can be identified and how it will be useful in development of research hypothesis?
- 7. Give a brief account of the chief methods of collecting primary and secondary data collection.
- 8. How would you plan your research report writing? Explain the various types of research report and importance of bibliography in research report.
- 9. A carefully designed "sample survey" is said to be better than a poorly planned and executed "census". Bring out the merits of sampling method of enquiry and atleast three of the methods to obtain representative data in a sample.