B.Com DEGREE EXAMINATION, EVEN SEMESTER 2021 I Year II Semester Business Statistics and Operations Research - II

Max Marks: 25

Answer any **Five** questions (5 * 5 = 25) Marks

- A bag contains 30 balls numbered from 1 to 30. One ball is drawn at random. Find the probability that the number of the ball drawn will be a multiple of a) 5 or 7 b) 3 or 7
- 2. Explain the different type of sampling technique.
- 3. To following data is collected on two characteristics:

	Smokers	Non – Smokers	
Literate	83	57	
Illiterate	45	68	
Based	on this can y	ou say that there is no relation between the habit of	of
smoking a	and literacy.		

- 4. The mean yield for one -acre plot is 662 kilos with a standard deviation 32 kilos. Assuming normal distribution, how many one-acres in a batch of 1000 plots would you expect to have yield?
 a) over 700 kilos
 b) below 650 kilos.
- 5. Solve the following assignment problem

 $W \quad X \quad Y \quad Z$

А	33	40	43	32
В	45	28	31	23
С	42	29	36	29

6. Draw the network and identify the critical path

Γ	activity	1-2	1-3	2-4	2-5	3-4	4-5
	duration	8	4	10	2	5	3

7. Explain the difference between CPM and PERT method.