

B.Pharm II Year I Semester (R09) Supplementary Examinations June 2018

**STATISTICAL METHODS & COMPUTER APPLICATIONS**

(For students admitted in 2009 regular &amp; 2011 lateral entry batches only)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) The strength of a college in different years is given below: Present the information in the form of a simple bar diagram.

Year	1995	1996	1997	1998	1999	2000	2001	2002
Strength of college	700	900	800	875	950	1000	1100	1100

- (b) Find the mean of first ten odd natural numbers.
- 2 (a) If  $x$  and  $y$  are the deviations from the actual mean and  $\sum x^2 = 10$ ,  $\sum xy = 12$ ,  $\sum y^2 = 24$ . Find the coefficient of correlation between the variables.
- (b) Consider the two regression lines  $3x+2y = 26$ ,  $6x+y = 31$ . Find the mean values of the series  $x$  and  $y$ .
- 3 Three different machines are used for a production on the basis of output. Test whether the machines are equally effective.

Machine – I	Machine – II	Machine – III
10	9	20
5	7	16
11	5	10
10	6	14

- 4 (a) Define CRD & RBD.  
(b) What are different types of quality control charts? Explain briefly.
- 5 (a) What is computer language? Explain.  
(b) Define operating system. Explain it briefly.
- 6 (a) What is the shortcut key spelling and grammar check in Microsoft word?  
(b) What is macro in Microsoft office?
- 7 (a) List the pharmaceutical resources in www, types of indexing tools and search strategies.  
(b) Give any two examples of DBMS packs. Explain.
- 8 Give any three computer applications in pharmaceutical sciences.

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