## M. D. (HOMOEOPATHY) PART – I (2016 COURSE) HOMOEOPATHIC PHILOSOPHY/MATERIA MEDICA /REPERTORY / HOMOEOPATHIC PHARMACY / PRACTICE OF MEDICINE: SUMMER - 2018

SUBJECT: RESEARCH METHODOLOGY AND BIO-STATISTICS

Day: Date:	Saturday 09/06/2018	·	
N.B.:	1) Attempt Al 2) Figures to i 3) Answer to l 4) All question	TE answer book.	
		SECTION-I	
Q.1	Define research	question under 'FINER' and 'PICO' criteria.	(10)
Q.2	What is 'bias' a	nd explain the types of bias in clinical research	n. <b>(10)</b>
Q.3	What are good o	clinical practices (GCP)? Add a note on ICMR	code of ethics. (10)
Q.4	What is an imp proposal?	ortance of background and rationale as comp	ponent of research (10)
Q.5	Write in detail a	about merits and demerits of longitudinal study	design. (10)
Q.6	What is literatur	e review? Explain '4s' of literature review.	(10)
		SECTION-II	
<b>Q.</b> 7	Explain measu	res of central tendency.	(10)
Q.8	Explain Z –test	t.	(10)
Q.9	Write in detail	about Mann Whitney U test.	(10)
Q.10	Write in detail	about independent't' test and paired't' test.	(10)
Q.11	The duration of time from first exposure to HIV infection to AIDS diagnosis is called the incubation period. The incubation periods of a random sample of 7 HIV infected individuals is given below (in years): 12.0, 10.5, 9.5, 6.3, 13.5, 12.5, 7.2  i) Calculate the sample mean.  ii) Calculate the sample median  iii) Calculate the sample standard deviation.		ndom sample of 7
Q.12	In a random survey of 3,015 boys age 11, the average height was 146cm, and the standard deviation (SD) was 8 cm. A histogram suggested the heights were approximately normally distributed. Fill in the blanks.  a) One boy was 170 cm tall. He was above average by SDs.  b) Another boy was 148 cm tall. He was above average by SDs.  c) A third boy was 1.5 SDs below the average height. He was cm tall.		d the heights were SDs SDs.

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