Exam Date & Time: 11-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Biostatistics and Research Methodology [PHA-BP801T]

Marks: 75	Diostatistics and Research Methodology [FIIA-DF 6011]	
Maiks: 15	Duration: 180 m	nins
Answer all	I Multiple Choice Questions (MCQs) the questions. Section Duration: 30	
1)	Which one among the followings is the best source for literature in research	mın
-)		(1)
2)	1) Internet 2) Conferences 3) Journals 4) Symposiums	. ,
2)	In general, which part of the manuscript will not have reference cited?	
	1) Introduction 2) Abstract 3) Results 4) Materials and Methods	(1)
3)	Which of the following committee/ association guidelines defines authorship criteria?	(1)
	1) ICMJE 2) WAME 3) IEEE 4) STM	(1)
4)	Who should be the "Corresponding Author" in journal publication?	
5)	who conceived the idea 2) department who guided the guides 3) Guide 4) Co-Guide 4) Co-Guide 4) Co-Guide 6	(1)
5)	Fabrications and falsifications are classified under	
	Data-manipulation 2) Plagiarism 3) Copyright and other IPRs 4) Overlapping publications ([1)
6)	To obtain informed consent, you must do all of the following EXCEPT	
	inform forewarn disclose participants participants that they	1)
7)	New indications of an approved drug is identified in:	
	Clinical trial phase II Clinical 3) Clinical trial phase III Clinical 4) Clinical trial phase IV	l)
8)	Which of the following considerations is LEAST important in determining sample size?	l)

patients, before and after the treatment with a drug?

1) Unpaired | 2) Paired | 3) Wilcoxon | 4) Kruskal- | (1) | (1) | (1) | (2) | (3) | (4) | (4) | (5) | (6) | (6) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) | (7) |

Select an appropriate test from below to analyze haemoglobin values obtained from

16)

Discuss the importance of literature search. Mention one example each for Open

Access and a Subscription based databases with with its salient features (3+2).

2)

example.

(5)

(5)

3)	Describe the measures of central tendencies with appropriate examples.	(5)
4)	Explain the categories of statistical tests used in biostatistics. How do you select an appropriate statistical test for the given data set?	(5)
5)	With a hypothetical experiment data, explain the procedure of statistical analysis using the Student's un-paired t-test. [if Given table-t value = 2.368]	(5)
6)	With appropriate examples, explain the types of statistical errors.	(5)
7)	What are the limitations of using Microsoft Excel as a statistical tool?	(5)

----End----