International Institute of Health Management Research [IIHMR]
NEW DELHI
Batch 2016-18
Term Exam

Time: 3 Hrs.   Total Marks: 70

HOM - 717: CLINICAL EPIDEMIOLOGY

Attempt all questions and read carefully before answering. Your answer should be very specific and concise.

- Note the page limit for each question. *Two marks will be deducted for every extra page or part thereof. (This is a eco-friendly exam!)*
- For multiple choice questions *2 marks will be awarded for a correct answer* and *1 mark will be deducted for a wrong answer*

1. **The following multiple questions has one correct answer. Please write down the choice in your answer sheet.**

[Max Marks: 2x5=10, One Page]

   1. Randomized controlled trial is considered
      a) Best form of evidence for causation for an individual study
      b) Worst form of evidence for causation for an individual study
      c) Neither best nor worst
      d) It varies depending on the population

   2. The ethical principle related to informed consent is
      a) Beneficence
      b) Nonmaleficence
      c) Justice
      d) Autonomy

   3. If an intervention is a risk factor
      a) The lower limit of confidence interval is lesser than one
      b) The upper limit of confidence interval is lesser than one
      c) The lower limit of confidence interval is greater than one
      d) The lower limit of confidence interval is lesser than one and upper limit is greater than one

4. Likelihood ratio in the range of following is considered weak evidence to rule in disease
   a) >10
   b) 5-10
   c) 2-5
   d) 0.5-2

5. All of the following refers to clinical epidemiology except
   a) Clinical drug trials
   b) Studies on hospital acquired infection
   c) Medical device studies
   d) Health education in school settings

2. Please go through the CONSORT guidelines checklist and the RCT provided. Choose any 10 points from 3-22, mark page number/s on checklist and in your answer sheet provide detailed response within the total page limit.

[Max Marks: 10+10, Four Pages]

3. What is meant by evidence pyramid. Explain with a diagram and description?

[Max Marks: 2+8=10, Two Pages]

4. Explain the journey of a drug from bed to bedside? What is postmarketing surveillance?

[Max Marks: 8+2=10, Total of Two Pages]

5. In a five steps how you will conduct a Systematic Review.

[Max Marks: 5, One page]

6. Describe three difference between validity and reliability of a test with two examples?

[Max Marks: 5 (1+1+1+1+1+1), One page]

7. The following are the test results for a diagnostic test in two different settings. What can you say about the respective settings and why?

[Max Marks: 10=5*2, Two pages]

A

Truth

Test Result		Disease (number)	Non Disease (number)	Total (number)
	Positive (number)	**20** A (True Positive)	**33** B (False Positive)	**53** $T_{Test\ Positive}$
	Negative (number)	**10** C (False Negative)	**37** D (True Negative)	**47** $T_{Test\ Negative}$
		30 $T_{Disease}$	**70** $T_{Non\ Disease}$	**100** Total

B

Truth

Test Result		Disease (number)	Non Disease (number)	Total (number)
	Positive (number)	**10** A (True Positive)	**40** B (False Positive)	**50** $T_{Test\ Positive}$
	Negative (number)	**5** C (False Negative)	**45** D (True Negative)	**50** $T_{Test\ Negative}$
		15 $T_{Disease}$	**85** $T_{Non\ Disease}$	**100** Total