

**MANIPAL ACADEMY OF HIGHER EDUCATION**

**MPH 1<sup>ST</sup> YEAR BLOCK I EXAMINATION**

**SEPTEMBER 13, 2021**

**BASIC EPIDEMIOLOGY**

**DURATION: 3 HOURS**

**MAX MARKS: 60**

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**ANSWER ALL QUESTIONS.**

1. What is incidence? What is prevalence? What is the relationship between incidence and prevalence? What is the application of incidence and prevalence? **(2+2+3+3 = 10 Marks)**
2. What is public health surveillance? What is the main difference between active and passive surveillance? Explain sentinel surveillance with an example. **(2+3+5 = 10 Marks)**
3. Explain any one case investigation conducted by Sir John Snow in the 19<sup>th</sup> century in London. **(5 Marks)**
4. What are the advantages and disadvantages of cohort study? **(2.5 + 2.5 = 5 Marks)**
5. What is Hill's criteria? List the nine components of Hill's criteria. **(1+4= 5 Marks)**
6. Describe the two arms in a RCT. **(2.5+2.5 = 5 Marks)**
7. What is an epidemiologic triad? Explain with an example. **(2 + 3 = 5 Marks)**
8. What is the full form of NPCDCS? List the objectives and strategies of NPCDCS. **(1+2+2 = 5 Marks)**
9. State the definition of 'Epidemiology'. **(2 Marks)**
10. What is selection bias? **(2 Marks)**
11. What is maternal mortality ratio? Explain with formula. **(2 Marks)**

12. List any 4 national health programs for communicable diseases in India? **(2 Marks)**

13. What are the different types of 'controls' selected in a case-control study? **(2 Marks)**

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