FIELD EPIDEMIOLOGY

PAPER – I

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

1. Write in detail about biases in case control studies and what measures will you take to control them? 5+5

2. What do you understand by causality? What are Hill’s criteria for judging causality? 3+7

3. What is epidemiological transition and epidemiological polarization? Discuss the phenomenon of double burden of disease in developing countries. 4+6

4. Discuss the concept of prevention, control, elimination and eradication of disease in a community with suitable examples. 4+2+2+2

5. Explain the terms isolation and quarantine. Describe the various types of isolation in Public health practice. Briefly discuss the importance of isolation in prevention of communicable diseases. 2+3+5

6. Write in detail about the contribution of John Snow in public health. 10

7. Write in brief about the different kinds of time trends or fluctuation in disease occurrence with suitable examples. 10

8. Describe in detail the tools and measurements generally employed in epidemiology. 5+5

9. What is validity and reliability of screening test? How will you find out the validity and reliability of a screening test? 4+6

10. Discuss various methods which can be used to detect hidden cases in the community. 10

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1. Discuss in detail the changing patterns of infectious diseases currently observed in developing countries. 10

2. Discuss in detail the epidemiology and laboratory diagnosis of cholera. Suggest preventive measures for cholera in the district. 3+3+4

3. Enumerate the important human diseases associated with rodents. Describe in brief the anti-rodent measures available. 3+7

4. The prevalence of hookworm infection is reported to be high in a primary health centre area. How will you assess the worm load in that area and institute control and preventive measures. 3+7

5. Enumerate vector borne disease. Write in brief integrated vector control measures in India. 3+7

6. Enumerate emerging infectious diseases. Comment on the causes of their emergence and outline preventive and control measures. 3+7

7. Discuss the health impact of air environmental pollution on the people in a metropolitan city and suggest remedial measures. 5+5

8. Enumerate the types of disasters. Discuss the health implications of biological disasters. Write in brief the strategies for prevention and control of biological warfare. 2+3+5

9. What are the different types of sampling technique? Discuss any two methods with suitable examples. 4+6

10. Enumerate appropriate tests of significance used for bivariate analysis and briefly write about paired t-test with suitable example. 4+6

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FIELD EPIDEMIOLOGY
PAPER – III

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

1. Discuss in brief the various surveillance methods to understand the magnitude of problem of HIV/AIDS in India. Briefly describe the supportive, therapeutic and preventive aspects of management plan for HIV/AIDS patients. 4+2+2+2

2. Describe the achievements in National Leprosy Eradication Program. Discuss the future strategies envisaged under the program. 5+5

3. Describe the epidemiology of poliomyelitis. What are the strategies adopted for polio eradication in India. 4+6

4. Define measles outbreak. Discuss in detail the strategies adopted for measles mortality reduction in India. 2+8

5. Describe the steps involved in the investigation of an outbreak of leptospirosis. 10

6. Discuss the epidemiology of obesity. Add a note on its prevention and control. 4+6

7. Write the name of diseases which are under surveillance and describe the flow of information under Integrated Disease Surveillance Project. 3+7

8. Critically review the Iodine Deficiency Disorders Control Program in India. Suggest measures for improvement of the same. 7+3

9. How will you define mental health? What are the objectives and strategies of National Mental Health Program? 2+2+6

10. Discuss the epidemiology, prevention and control of Industrial accidents. 4+3+3

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PAPER – IV

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

1. What are the principles of Cluster Study design? Give a brief account of this design with a suitable example from India. 3+7

2. What are the levels of prevention? Discuss with examples, different mode of intervention to interrupt the development of disease. How will you apply these levels to prevent pulmonary tuberculosis, keeping in mind the natural history of disease? 2+3+5

3. Define ‘Growth and Development’. Discuss in brief the determinants and tools of measurement of growth & development of under five children. 3+3+4

4. Explain the term social disease by giving examples. Enumerate important social diseases in India. Discuss the epidemiology and prevention of any one of them. 3+2+5

5. What do you mean by poverty line? Explain the importance of social stratification and discuss the various socio-economic status scales available in India. 2+3+5

6. What is Management Information System (MIS)? Design a MIS program for a district. 3+7

7. What is behavior change communication? What strategies of behavior change communication will you design to reduce water-borne disease in your district? 2+8

8. Describe various media based promotion campaigns adopted by the Indian Government under NRHM. Critically evaluate & suggest improvement measures for the same. 5+5


10. What are various techniques of conducting an interview in different settings? Describe these interview techniques. 10

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