

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

*(A DEEMED TO BE UNIVERSITY)*

**Post Graduate Degree Examination - June/July 2020**

**Time : 3 Hrs**

**Max Marks : 100**

**M.D COMMUNITY MEDICINE**

**Paper- I      QP Code: P3081**

*Your answers should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**10 X 10 = 100**

1. Explain the various methods of minimizing confounding in epidemiological studies.
2. Describe the Tools for measurement in epidemiology.
3. Discuss on the applications of standard deviation in the measurement of diseases and health status of a population.
4. Define surveillance. How are hospital information systems useful for disease surveillance? Plan for a surveillance system for common infectious diseases for a district.
5. Describe the terms "Antigenic Shift" and "Antigenic Drift" and their importance in public health .
6. Use of computers and software's in data analysis
7. Discuss the Natural History of Tuberculosis
8. Discuss the Principles of Counseling in Control of Disease.
9. Explain the Community Based Rehabilitation with appropriate examples.
10. Explain in detail the principles of health education.

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**Paper- II      QP Code: P3082**

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**LONG ESSAY**

**10 X 10 = 100**

1. Discuss the burden of Soil Transmitted Helminths (STH) in India. Add a note on WHO risk stratification of areas affected by STH and treatment schedule in them. (5+5)
2. Elaborate the treatment of uncomplicated malaria according to Guidelines for Diagnosis and Treatment of Malaria in India, 2014.
3. Discuss various factors for introduction of Newer vaccines in National Immunization Schedule.
4. Describe the current developments in Cancer Cervix Prevention through vaccines.
5. Explain the Objectives and Strategies under National Programme for Prevention and Control of Fluorosis.
6. Describe the developments in genetically modified foods and the public health concerns of the society.
7. What is secondary sex ratio? Discuss the current scenario of secondary sex ratio in India.
8. What is nested case control study? Discuss in brief the methodology and advantage of this study design. (3+7)
9. Discuss on the application of GIS in the control of vector borne diseases.
10. What is 'Social Capital'? Discuss the benefits of social capital.

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**Paper- III      QP Code: P3083**

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**LONG ESSAY**

**10 X 10 = 100**

1. Discuss the H1N1 Influenza Pandemic 2009. Add a note on Antiviral therapy and Vaccination.
2. Discuss the epidemiology of Filariasis in India and describe the filarial indices.
3. Describe the current scenario of Plague and measures for its control in India.
4. Define Hospital Acquired Infections. List the Sources and routes of spread of hospital acquired infections. What preventive measures will you implement in a hospital for prevention and control of Hospital Acquired Infections?
5. Discuss on the salient epidemiological aspects of cardiovascular diseases in India. Elaborate on the influence of the transition in the Indian lifestyle on the occurrence of CVD s.
6. Describe the screening procedures for early detection of cancers and suggest measures to reduce the same.
7. Classify "Blindness" according to WHO. Discuss the epidemiology and prevention of preventable blindness in India.
8. Discuss the activities under National Leprosy Eradication Programme (NLEP) after reaching elimination status in India.
9. List the focus areas of NUHM. Describe the various activities carried out under NUHM.
10. Discuss the Community Involvement in Total Sanitation Campaign.

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**Paper- IV      QP Code: P3084**

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**LONG ESSAY**

**10 X 10 = 100**

1. Describe the prerequisites for Healthful School Environment.
2. Discuss the strategy for population control in India.
3. What are the key occupational health challenges related to the field of "agriculture" in India? Add a note on tackling mental health issues among the same group. (5+5)
4. List specific dietary advices you would like to give and the rationale for the same among these special groups (a) Antenatal women (b) Individuals diagnosed with Diabetes Mellitus (5+5)
5. Discuss the major category of Sources for Financing Health Care.
6. Discuss the different steps involved in the planning and management of any health programme/health service.
7. Discuss the governing principles in providing primary health care in India. Illustrate with examples.
8. Define Operational Research. Describe in detail the procedures adopted for operational research in health services.
9. Discuss the role Disaster preparedness in case of Earthquake.
10. Mention the diseases covered under international health regulations and briefly describe the sanitary measures for international airport and sea ports.