

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

(A DEEMED TO BE UNIVERSITY)

**Master of Public Health (MPH) Semester-I**

**February - 2019 Examination**

**Time: 2.30 Hrs.**

**[Max. Marks: 80]**

**Paper – I**

**General Epidemiology & Public Health Concepts**

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

*Draw neat labelled diagrams wherever necessary.*

*(Use Separate answer booklet for section A & B)*

**Section-A**

**General Epidemiology**

**(40Marks)**

**Q.P Code: H1015**

**Long essay:**

**1 X 10= 10 Marks**

1. Describe the steps involved in experimental epidemiology. List the differences between Randomized and Non-Randomized trials.

**Short essay:**

**6 X 5= 30 Marks**

2. Define Incidence, Prevalence and mean duration. Explain their relationship with suitable example.
3. Define association. Discuss in detail various types of association.
4. Discuss the different routes of transmission of communicable diseases.
5. Explain briefly the Infant mortality rate, Case Fatality Rate and Proportional Mortality Rate with suitable examples.
6. Explain the characteristics of ideal indicator. Mention the uses of morbidity and mortality indices in epidemiological studies.
7. Infants on bottle feeding are known to get exposed to infection, which results in diarrhoea. A cohort study was carried out on 200 bottle fed (exposed cohort) and 250 breast fed (non-exposed cohort) infants to detect the number of infants that suffered from diarrhoea in each group over a period of time. 40 of the bottle fed children developed diarrhoea, whereas 35 of the breast fed children also had diarrhoea over the observed period

**Section – B**

**(40 Marks)**

**Public Health Concepts**

**Q.P Code: H1016**

**Long essay:**

**1 X 10 = 10 Marks**

1. Define health. Describe the determinants of health with suitable examples.

**Short essay:**

**6 X 5 = 30 Marks**

2. Explain health care delivery indicators in detail.
3. Explain web of causation with suitable example.
4. Describe “ASHA s” role and responsibilities under National Rural Health Mission.
5. Explain the role of Panchayats Raj Institutions in health system.
6. Write in detail about the levels of Health Care.
7. Comparison of health system of India with developed countries in terms of improving health care system.

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**Paper – I**

**Basic Human Biology & Sociology**

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*Draw neat labelled diagrams wherever necessary.*

*(Use Separate answer booklet for section A & B)*

**Section-A**

**Basic Human Biology**

**(40 Marks)**

**Q.P Code: H1025**

**Long Essay**

**1 X 10 = 10 Marks**

- 1 Draw a neat labelled diagram of a neuromuscular junction. In a flow chart represent transmission across a neuromuscular junction.

**Short Essay**

**6X 5 = 30 Marks**

- 2 State the normal serum calcium level. Name three hormones that regulate calcium levels in the body.
- 3 Mention the normal platelet count. List the functions of platelets.
- 4 Define blood pressure. State the normal values of systolic blood pressure, diastolic blood pressure and mean arterial blood pressure in an adult.
- 5 List the functions of stomach.
- 6 Define contraception. Give one permanent and temporary contraceptive methods in males and females.
- 7 List the refractive errors with their correction

**Section – B**

**(40 Marks)**

**Sociology**

**Q.P Code: H1026**

**Long essay:**

**1 X 10= 10 Marks**

1. Discuss the consequences of Population explosion and its remedial measures to control it.

**Short essay:**

**6 X 5 = 30 Marks**

2. Write the Meaning and characteristics of urban community.
3. Mention the differences between urban and rural community
4. Mention the urban problems its remedial measures.
5. Explain the characteristics of sociology.
6. Write the meaning and characteristics of class.
7. Explain the functions and characteristics of family.

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**[Max. Marks: 80]**

**Paper – I**

**Basic Biostatistics & Demography**

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

*Draw neat labelled diagrams wherever necessary.*

*(Use Separate answer booklet for section A & B)*

**Section-A**

**Basic Biostatistics**

**(40 Marks)**

**Q.P Code: H1035**

**Long Essay**

**1X 10 = 10 Marks**

1. Define central tendency. Following is the birth weight of 10 babies born in a community health centre in a week. 2.6, 2.8, 2.9, 3.0, 3.8, 4.1, 3.8, 2.6, 2.6, 2.9 Kgs. Calculate mean, median and modal birth weight.

**Short Essay**

**6X 5 = 30 Marks**

2. Define data. Mention different methods of data collection in public health
3. Role of biostatistics in Public Health.
4. Probability sampling techniques
5. Explain various methods of data presentation.
6. Normal distribution curves
7. Explain Scales of measurements with examples

**Section – B**

**(40 Marks)**

**Demography**

**Q.P Code: H1036**

**Long Essay:**

**1 x 10 = 10 Marks**

1. Explain in detail about National Population Policy and its salient features.

**Short Essay:**

**6 x 5 = 30 Marks**

2. Comment on declining sex ratio in India. Discuss the measures adopted to correct the situation.
3. Write a note on dependency ratio.
4. Discuss relationship between fertility and education.
5. List the fertility related statistics.
6. Explain the barrier methods of family planning.
7. List the sources of health information. Explain about census.

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