

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1023]

OCTOBER 2023

Sub. Code: 3003

**M.Sc. EPIDEMIOLOGY
FIRST YEAR (From 2011-2012 onwards)
PAPER III – EPIDEMIOLOGICAL METHODS IN HEALTH MANAGEMENT**

Q.P. Code: 313003

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. What is Age Pyramid? Discuss the consequences of its change to an Inverted Pyramid.
2. Discuss cultural practices that promote health and those that are harmful. How can you study them using research?

II. Write Short Notes on:

(10x6 = 60)

1. Discuss the difference in estimating population using Arithmetic and Geometric projection methods.
2. How does the following death rates differ and help in planning - Crude death rate, Disease specific death rate and case fatality rate.
3. Brief note on government program for control of anaemia.
4. How would you monitor the implementation of Acute Diarrhoeal Disease control component of RCH Program?
5. How would you measure chemical exposure in employees of a paint factory, for risk assessment?
6. What are the medical facilities under the ESI Act?
7. How would you choose the best strategy for screening for developmental delay, when two tests are available with the following parameters - Test 1 (Sensitivity 80%, Specificity 90%), Test 2 (Sensitivity 92%, Specificity 86%)?
8. Discuss the new guidelines for molecular research as per ICMR guidelines 2017.
9. Differentiate Cost benefit and Cost Utility evaluation with an example.
10. What would be the PROCESS components to be evaluated in the National Program for control of Blindness?
