

[KD 184]

Sub. Code : 2088

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XV — Community Medicine

Part II

Paper I — COMMUNITY MEDICINE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the case-control studies under the following heads :

- (a) Basic steps (10)
- (b) Biases (5)
- (c) Advantages and disadvantages. (10)

2. Discuss Acute Respiratory infections under the following heads :

- (a) Magnitude of the problem. (5)
- (b) Classification of the illness (5)
- (c) Management. (15)

3. Write briefly on : (5 × 10 = 50)

- (a) Serial interval
 - (b) Measures of source reduction in the control of communicable diseases
 - (c) Screening for oral cancer and cervical cancer
 - (d) Diagnosis and control of leptospirosis
 - (e) High risk groups for human immuno deficiency virus (HIV) infection.
-

November-2001

[KE 184]

Sub. Code : 2088

M.D. DEGREE EXAMINATION.

(All Regulations)

Community Medicine

Part II

Paper I — COMMUNITY MEDICINE

Time : Three hours

Maximum : 100 marks

1. What is meant by strength of association? Discuss the concept by giving suitable examples. (25)
 2. Discuss the methodology of randomized controlled trials. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Primordial prevention.
 - (b) Seroprophylaxis.
 - (c) Retrospective cohort studies.
 - (d) Critical point in screening.
 - (e) Epidemiological significance of incubation period.
-

March-2002

[KG 184]

Sub. Code : 2088

M.D. DEGREE EXAMINATION.

(All Regulations)

Community Medicine

Part II

Paper I — COMMUNITY MEDICINE

Time : Three hours

-Maximum : 100 marks

Answer ALL questions.

1. Discuss the survey methods in Community Medicine. (25)
 2. Discuss — National Leprosy Eradication Programme. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Dhanavanthari.
 - (b) Emblem of medical profession.
 - (c) Engineering methods of mosquito control.
 - (d) Biological transmission of disease.
 - (e) Fluorosis.
-

September-2002

[KH 184]

Sub. Code : 2088

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Community Medicine

Part II

Paper I — COMMUNITY MEDICINE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the web of causation of diseases by giving suitable examples. Illustrate your answers by suitable diagrams. (25)
 2. Discuss the importance of screening in the control of communicable and non-communicable diseases. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Secular trends in disease
 - (b) Stratified random sampling
 - (c) Indicators of mental health
 - (d) Triple blinding technique
 - (e) Relative risk and attributable risk.
-

April-2003

[KI 184]

Sub. Code : 2088

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Community Medicine

Part II

Paper I — COMMUNITY MEDICINE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the natural history of HIV/AIDS. Discuss prevention and control measures. (25)
 2. Describe the concept of causation in epidemiology. Explain the process for determining if observed association is likely to be causal. Discuss critically the guidelines given for judging causal association. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Cumulative incidence (Incidence risk) and Incidence density (Incidence rate)
 - (b) Control measures for cancer
 - (c) Methods of evaluation of screening programmes
 - (d) Concept of community medicine
 - (e) Acute Flaccid Paralysis (AFP) surveillance.
-

[KJ 184]

Sub. Code : 2088

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Community Medicine

Part II

Paper I — COMMUNITY MEDICINE

Time : Three hours

Maximum : 100 marks

Theory : Two hours and forty
minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

MCQ must be answered **SEPARATELY** on the
Answer Sheet provided as per the instructions on the
first page of the M.C.Q. Booklet.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essays :

(2 × 15 = 30)

1. What is causal association in Epidemiology?
Illustrate your answer with examples.

2. There is a rising trend of coronary heart diseases
in India. Discuss the reasons and suggest your
measures to prevent the trend.

3. Write short notes on :

(10 × 5 = 50)

- (a) Assessment of obesity.
- (b) Proportional mortality rates.
- (c) ROC curves.
- (d) Emporiatrics.
- (e) Field evaluation of vaccine efficacy.
- (f) Time trends in disease occurrence.
- (g) Markers of hepatitis B infection.
- (h) Biological transmission of diseases in vectors.
- (i) Self care in diabetes mellitus.
- (j) Prevention of blindness.

[KM 184]

Sub. Code : 2088

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XV — Community Medicine

Part II

Paper I — COMMUNITY MEDICINE

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Essay : (2 × 15 = 30)
- (1) Community control of hypertension.
 - (2) Criteria for judging causation of disease.
- II. Write short notes on : (10 × 5 = 50)
- (a) Bias in studies
 - (b) Natural history of a disease
 - (c) Odds Ratio (OR)
 - (d) Socialised Medicine

- (e) Biological transmission
 - (f) Principles of primary health care
 - (g) Stratified sampling
 - (h) Social pathology
 - (i) Census of India
 - (j) Life tables.
-

KP 184]

Sub. Code : 2088

II. Write short notes on :

(6 × 5 = 30)

M.D. DEGREE EXAMINATION.

Branch XV — Community Medicine — Part II

Paper I — COMMUNITY MEDICINE

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

I.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essay :

(1) Describe the steps in the investigation of an epidemic. (20)

(2) Describe the prevention and control of typhtheria. (15)

(3) Describe the epidemiology and prevention of accidents. (15)

[KQ 159]

Sub. Code : 2087

M.D. DEGREE EXAMINATION.

Branch XV — Community Medicine

COMMUNITY MEDICINE

Common to :

Part II — Paper I — (All Regulations)

(Candidates admitted from 1988-89 onwards)

And

**Paper II — (for Candidates admitted from
2004-2005 onwards)**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

**(1) Describe the epidemiology and prevention of
oral cancers. (20)**

**(2) Describe the steps in the investigation of a
case of food poisoning in a five star hotel. (15)**

**(3) Describe the prevention and control of
tetanus. (15)**

II. Write short notes: (6 × 5 = 30)

(a) Evaluation of a rural project

(b) Physical quality of life index

(c) Types of Screening

(d) Current strategy of malaria control

(e) Methods of controlling accidents

(f) Environmental factors in noise pollution.

MARCH 2008

[KS 157]

Sub. Code : 2052

M.D. DEGREE EXAMINATION.

Branch XV — Community Medicine

COMMUNITY MEDICINE

Common to :

Part II — Paper I

(Candidates admitted upto 2003–04)

and

Paper II — (For candidates admitted from
2004–2005 onwards)

Q.P. Code : 202052

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Essay : (2 × 20 = 40)
1. Describe the epidemiology and prevention of Hepatitis-B.
 2. Describe the epidemiology and prevention of Accidents.
- II. Write short notes on : (10 × 6 = 60)
1. Community treatment.
 2. Risk factors.
 3. Secondary attack rate.
 4. Migration studies.
 5. Association and causation.
 6. Life tables.
 7. Clinical features of measles.
 8. Filaria survey.
 9. Emerging diseases.
 10. Assessment of obesity.
-

September 2008

[KT 157]

Sub. Code: 2052

M.D. DEGREE EXAMINATION

Branch XV – Community Medicine

Paper II - COMMUNITY MEDICINE

Common to

Part II – Paper I (Candidates admitted upto 2003-04) and

Paper II - (For candidates admitted from 2004-2005 onwards)

Q.P. Code : 202052

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 20 = 40)

1. Classify arboviral diseases. Describe the epidemiology and control of Japanese encephalitis.
2. Describe the epidemiology and prevention of rheumatic heart disease.

II. Write short notes on : (10 X 6 = 60)

1. Clinical features in measles disease.
 2. Evaluation of a screening test.
 3. Differences between case control and cohort studies.
 4. Disability adjusted life years.
 5. Epidemiological classification of vector borne diseases.
 6. Hazards of immunization.
 7. Severe acute respiratory syndrome.
 8. Roll back malaria.
 9. Environmental factors in cancer causation.
 10. Epidemiological indices in tuberculosis
-

March 2009

[KU 157]

Sub. Code: 2052

M.D. DEGREE EXAMINATION

Branch XV – COMMUNITY MEDICINE

Common to

**Part II – Paper I (Candidates admitted upto 2003-04) and
Paper II - (For candidates admitted from 2004-2005 to 2007-2008)**

COMMUNITY MEDICINE

Q.P. Code : 202052

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 x 20 = 40)

1. Describe in detail the epidemiology and control of hepatitis B.
2. Describe the activities under National Blindness Control Programme in India.

II. Write short notes on : (10 x 6 = 60)

1. Acute flaccid paralysis (AFP) surveillance.
2. Tools of measurement in epidemiology.
3. HAART (Human Aids Anti Retro Viral Therapy).
4. Antigenic drift and antigenic shift.
5. Characteristics of classical Dengue fever.
6. Anti typhoid vaccine.
7. Monitoring adverse events following immunization (AEFI).
8. Vaccine vial monitor.
9. Clinical features in diphtheria disease.
10. Validity of a screening test.

September 2009

[KV 157]

Sub. Code: 2052

M.D. DEGREE EXAMINATION

Branch XV – COMMUNITY MEDICINE

Common to

**Part II – Paper I (Candidates admitted upto 2003-04) and
Paper II - (For candidates admitted from 2004-2005 to 2007-2008)**

COMMUNITY MEDICINE

Q.P. Code : 202052

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 x 20 = 40)

1. Describe the epidemiology and prevention of HIV/AIDS disease and discuss about recent therapeutic regimens of HIV/AIDS.
2. Write about natural history of hypertension. Enumerate various strategies for its prevention.

II. Write short notes on : (10 x 6 = 60)

1. Write about arboviral infections.
2. Strategies under national trachoma control programme.
3. Construction of life table and its uses.
4. Mention regarding ionizing-radiation and effects of its exposure.
5. Discuss about the national cancer registry programme.
6. Evaluation of a screening test.
7. Strategies to check hospital acquired infections.
8. Epidemiological indices of malaria.
9. Chemical control of arthropods of public health importance.
10. 'Louis Pasteur' Contributions of public health.

March 2010

[KW 157]

Sub. Code: 2052

M.D. DEGREE EXAMINATION

Branch XV – COMMUNITY MEDICINE

**Paper II – (for candidates admitted from 2004-2005 to 2007-2008) and
Part II – Paper I (Candidates admitted from 2008-09 onwards)**

COMMUNITY MEDICINE

Q.P. Code : 202052

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions :

(2 x 20 = 40)

1. Describe the epidemiology and prevention of SARS (Severe Acute Respiratory Syndrome).
2. “Fighting Tuberculosis is the responsibility of every citizen”– Explain.

II. Write short notes on :

(10 x 6 = 60)

1. Human development index.
2. Define recrudescence of disease and its relevance to ecological changes with examples.
3. Explain web of causation for accidents and recommended strategies for its prevention.
4. Causes of air pollution and its monitoring.
5. Methods of mosquito control suggested for tribal area.
6. Screening procedures for different cancers.
7. Trachoma control in urban slum.
8. Evaluation of vaccine efficiency.
9. Rehabilitation of commercial sex workers.
10. Explain the terms eradication, elimination and control of disease.

September 2010

[KX 157]

Sub. Code: 2052

M.D. DEGREE EXAMINATION

Branch XV – COMMUNITY MEDICINE

COMMUNITY MEDICINE

**Paper II - (For candidates admitted from 2004-2005 to 2007-2008) and
Part II – Paper I (Candidates admitted from 2008-09 onwards)**

Q.P. Code : 202052

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Describe the epidemiology of Filariasis. Describe briefly the prevention and control of Filariasis in India.
2. Describe the Syndromic approach in the management of Sexually Transmitted Diseases (STD). What are the advantages and disadvantages of Syndromic approach?

II. Write short notes on :

(10 X 6 = 60)

1. Louis Pasteur.
2. Spectrum of health.
3. Uses of epidemiology.
4. Primary eye care.
5. Disease Control, Elimination and Eradication.
6. Self care in disease.
7. Epidemiology of Cancers in India.
8. RNTCP Revised National TB Control Programme.
9. Immunization in Pregnancy.
10. Rehabilitation of commercial sex workers.

MAY 2011

[KY 157]

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
COMMUNITY MEDICINE

Q.P. Code : 202052

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks
(Max.) (Max.) (Max.)

- | | | | |
|--|----|----|----|
| 1. Discuss the importance of screening in the control of communicable and non-communicable diseases. | 11 | 35 | 15 |
| 2. Discuss in detail the factors contributing to accidents and the methods to control accidents. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Vaccines for cancer. | 4 | 10 | 7 |
| 2. Bias. | 4 | 10 | 7 |
| 3. Community diagnosis. | 4 | 10 | 7 |
| 4. Investigation of an adverse event following immunization. | 4 | 10 | 7 |
| 5. Tools in epidemiology. | 4 | 10 | 7 |
| 6. Epidemic, Endemic and Pandemic. | 4 | 10 | 7 |
| 7. Ecological study. | 4 | 10 | 7 |
| 8. Control of urban rabies in India. | 4 | 10 | 7 |
| 9. Receiver operative characteristic curve. | 4 | 10 | 7 |
| 10. Current strategy of filariasis control. | 4 | 10 | 7 |

October 2011

[KZ 157]

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
COMMUNITY MEDICINE

Q.P. Code : 202052

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks
(Max.) (Max.) (Max.)

- | | | | |
|--|----|----|----|
| 1. Discuss epidemiology of common air borne diseases and methods to control this type of transmission. | 11 | 35 | 15 |
| 2. Explain advantages and constraints of Cohort studies and methods to overcome them. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. Differentiate QALY and DALY as a measure of health. | 4 | 10 | 7 |
| 2. Describe social indicators of health. | 4 | 10 | 7 |
| 3. Lameness survey – its context in Polio eradication. | 4 | 10 | 7 |
| 4. H1N1 epidemic in India. | 4 | 10 | 7 |
| 5. Discuss tertiary level of prevention in a person with Keratomalacia. | 4 | 10 | 7 |
| 6. Estimating “Strength of association” for establishing causal relationship. | 4 | 10 | 7 |
| 7. Epidemic curve – its uses. | 4 | 10 | 7 |
| 8. Factors influencing choice of study design in identifying “Determinants of a disease”. | 4 | 10 | 7 |
| 9. Nested case control study. | 4 | 10 | 7 |
| 10. Hazards ratio. | 4 | 10 | 7 |

[LA 157]

April 2012

Sub. Code: 2052

**M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
COMMUNITY MEDICINE**

Q.P. Code : 202052

Time : 3 hours

Maximum : 100 marks

(180 Min)

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Epidemiology of Swine flu and its control	16	35	15
2. Give the steps involved in planning an observational study on the tea consumption in women as a cause for anemia.	16	35	15

II. Write notes on :

1. Compare and contrast family medicine with community medicine.	4	10	7
2. Epidemic prone febrile illness and basic infrastructure required to detect them early.	4	10	7
3. Spectrum of disease presentation of lymphatic filariasis.	4	10	7
4. Strategies for prevention and control of health consequences of accidents.	4	10	7
5. Standardized death rate – the rationale and methodology.	4	10	7
6. Attrition in epidemiological studies.	4	10	7
7. Sampling methods	4	10	7
8. Give the natural history of diabetes mellitus.	4	10	7
9. Methods of survival analysis.	4	10	7
10. Role of meta analysis in research.	4	10	7

[LB157]

OCTOBER 2012
MD DEGREE EXAMINATION
BRANCH XV - COMMUNITY MEDICINE
Community Medicine
Q.P. CODE: 202052

Sub code:2052

Time:3 hrs.
(180 min.)

Maximun:100 marks

Answer all questions in the same order

I. Elaborate on :

Pages Time Marks
(Max.) (Max.) (Max.)

- | | | | |
|---|----|----|----|
| 1. Describe the role of sensitivity and specificity of screening in clinical medicine with examples.
Add a note on receiver operative charecterestic curves. | 16 | 35 | 15 |
| 2. Enumerate the clinical classification of diabetes mellitus. Discuss the epidemiological determinants and apply 3 levels of prevention for Diabetes mellitus. | 16 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Types of epidemics and epidemic curve. | 4 | 10 | 7 |
| 2. Retrospective cohort study. | 4 | 10 | 7 |
| 3. Migration bias. | 4 | 10 | 7 |
| 4. Syndromic management for Vaginal discharge. | 4 | 10 | 7 |
| 5. Hospital acquired infections. | 4 | 10 | 7 |
| 6. Causes of Acute Encephalic syndrome. | 4 | 10 | 7 |
| 7. Current treatment strategy for Malaria. | 4 | 10 | 7 |
| 8. Role of Spot Maps in Epidemiology. | 4 | 10 | 7 |
| 9. Rota virus vaccines. | 4 | 10 | 7 |
| 10. Viral causes of Cancer. | 4 | 10 | 7 |

(LC 157)

APRIL 2013

Sub code:2052

M.D. DEGREE EXAMINATION

**BRANCH XV-COMMUNITY MEDICINE
COMMUNITY MEDICINE**

Q.P. CODE: 202052

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss the steps of Randomised controlled Trial in detail for testing of efficacy of 2 antihypertensive drugs.
2. Discuss the epidemiological features and Prevention of type II Diabetes mellitus.

II. Write notes on:

(10X7=70)

1. Evaluation of pulse Polio Immunisation.
2. Hospital acquired Infection.
3. Syndromic management of urethral discharge.
4. Explain the phase II R.N.T.C.P.
5. Cancer Atlas in India.
6. Biological methods of vector Transmission.
7. Explain the recent milestones of vaccination from 2000 to till date.
8. Significance of ROC Curve.
9. Advantages and disadvantages of Secondary Attack Rate.
10. Dos's and Dont's of Cold Chain maintenance in Ice lined Refrigerator.

[LE 157]

APRIL 2014

Sub. Code: 2052

M.D. DEGREE EXAMINATION

**BRANCH XV – COMMUNITY MEDICINE
COMMUNITY MEDICINE**

Q.P. Code :202052

Time : Three Hours

Maximum : 100 marks

I. Elaborate on:

(2X15=30)

1. List the various types of epidemiological study designs.
Write role of qualitative research.
2. Describe the methods of sewage treatment.

II. Write notes on:

(10X7=70)

1. Air pollution and control measures.
2. Methods of purification of water.
3. Mortality indicators.
4. Herd immunity.
5. Integrated Disease Surveillance Project.
6. XDR tuberculosis.
7. Filaria survey.
8. Demographic phases.
9. Primordial prevention.
10. Integrated approach for vector control.

[LF 157]

OCTOBER 2014

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II - COMMUNITY MEDICINE
Q.P. Code :202052

Time : Three Hours

Maximum : 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Define Social medicine. Tabulate the differences between social medicine and socialised medicine. Discuss the possibilities of implementation of socialised medicine in India.
2. Discuss “Life Style” as aetiology of diseases and suggest suitable preventive measures.

II. Write notes on:

(10 x 7 = 70)

1. Anti – Microbial Resistance.
2. Accident proneness.
3. Community Cardiology.
4. Larva migrans.
5. Provocation paralysis.
6. Confounding variables.
7. Transmission Dynamics.
8. Sero Epidemiology.
9. Computers in Health Care.
10. Network Analysis.

[LG 157]

APRIL 2015

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE

Q.P. Code : 202052

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Define community needs assessment approach. Describe the advantages and disadvantages of the various methods used in assessing the health needs of a community.
2. Discuss how Bionomics of insects is useful in controlling communicable diseases in India.

II. Write notes on:

(10 x 7 = 70)

1. Nematode parasitism.
2. Antibiotic policy.
3. Ebola Fever.
4. Scatter Plot.
5. Cross over Trials.
6. Right to health.
7. Criteria for causality.
8. Peripheral medical care.
9. Soil Transmitted helminths.
10. Sentinel Surveillance.

[LG 157]

APRIL 2015

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE

Q.P. Code : 202052

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Define community needs assessment approach. Describe the advantages and disadvantages of the various methods used in assessing the health needs of a community.
2. Discuss how Bionomics of insects is useful in controlling communicable diseases in India.

II. Write notes on:

(10 x 7 = 70)

1. Nematode parasitism.
2. Antibiotic policy.
3. Ebola Fever.
4. Scatter Plot.
5. Cross over Trials.
6. Right to health.
7. Criteria for causality.
8. Peripheral medical care.
9. Soil Transmitted helminths.
10. Sentinel Surveillance.

[LH 157]

OCTOBER 2015

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE

Q.P. Code : 202052

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Integration of modern medicine with indigenous medicine is the need of the hour.
Critically analyse this statement bringing out clearly the advantages and disadvantages.
2. Write an essay on Epidemiology of viral haemorrhagic fevers and their prevention.

II. Write notes on:

(10 x 7 = 70)

1. Preventive dermatology.
2. Community participation.
3. Picorna virus.
4. Typhoid vaccines.
5. Legionnaires disease.
6. Stochastic Process.
7. Socio Economic effects of smoking.
8. PAN American Sanitary Bureau.
9. Experimental Epidemiology.
10. McNemar's Test.

[LI 157]

APRIL 2016

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE
Q.P. Code : 202052

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the natural history of Dengue and discuss the prevention and control measures.
2. Describe the proximate principles in the Indian diet and the role of fatty acids. Comment on “healthy food habits promote health”

II. Write notes on:

(10 x 7 = 70)

1. Noise pollution.
2. Urban health problems.
3. Disability indicators.
4. Modes of intervention in Primary level of prevention.
5. Poisson distribution.
6. Food additives.
7. Water harvesting.
8. Acculturation.
9. Control of Trachoma.
10. Survey methods.

[LJ 157]

OCTOBER 2016

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE
Q.P. Code : 202052

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the criteria for judging causation of disease.
2. Explain the epidemiology of accidents. Add a note on prevention of accidents.

II. Write notes on:

(10 x 7 = 70)

1. Social pathology.
2. Sanitary awakening.
3. Bias in case control studies.
4. Carriers of infection.
5. Notification of diseases.
6. Standardized Mortality Ratio.
7. Uses of screening for disease.
8. Herd immunity.
9. Health promotion.
10. Emporiatrics.

[LK 157]

MAY 2017

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE
Q.P. Code : 202052

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Define epidemiology. Enumerate the various epidemiological studies. Describe in detail the experimental epidemiology.
2. As a Health Officer in a Municipality, how will you manage an outbreak of fever?

II. Write notes on:

(10 x 7 = 70)

1. Wealth index.
2. Significance of Net Reproduction Rate.
3. Comment on the best method of solid waste disposal in rural areas.
4. Aflatoxin.
5. Epidemiology of Hydatid disease and control measures.
6. Demographic trends in India.
7. Notification of diseases.
8. Post exposure prophylaxis in Rabies.
9. Surveillance.
10. Correlation coefficient.

[LL 157]

OCTOBER 2017

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE
Q.P. Code : 202052

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the strategies for prevention of coronary heart disease.
2. Explain the investigation of an epidemic of typhoid fever in a rural area.

II. Write notes on:

(10 x 7 = 70)

1. Epidemiological significance of incubation period.
2. Morbidity indicators.
3. Disadvantages of cohort studies.
4. Evaluation of a screening test.
5. Community treatment.
6. Social engineering phase in public health.
7. Community based rehabilitation.
8. Life table.
9. Socialized medicine.
10. Sentinel surveillance.

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE

Q.P. Code : 202052

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 15 = 30)

1. Mention the risk factors for road traffic accidents.
Describe the measures for prevention of road traffic accidents.
2. Describe the steps in conducting a case-control study.
Mention the advantages of case-control studies.

II. Short notes:

(10 x 5 = 50)

1. Social medicine.
2. Prevention and control of soil-transmitted helminth infections.
3. Spot map.
4. Criteria for screening with respect to the disease to be screened.
5. Disability rates.
6. Cold chain.
7. Isolation as a measure for control of communicable diseases.
8. Non-probability sampling techniques.
9. Primordial prevention.
10. Community diagnosis.

III. Reasoning Out:

(4 x 5 = 20)

1. Prevalence of overweight and obesity is increasing in low-and middle-income countries. Give reasons for this increase in prevalence.
2. Explain “Rule of halves” in hypertension.
3. Explain the principle on which population strategy for prevention of coronary heart disease is based?
4. Explain the role of blinding in randomized controlled trials.

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE
Q.P. Code: 202052

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 15 = 30)

1. Explain the spectrum of health.
Describe the determinants of health.
2. Describe the risk factors for hypertension.
Explain primary prevention of hypertension.

II. Short notes:

(10 x 5 = 50)

1. Sanitary awakening.
2. Investigation of food poisoning.
3. Quarantine.
4. Cluster sampling.
5. Temporal association.
6. Common-source epidemics.
7. Attributable risk.
8. Types of screening for disease.
9. Survival analysis.
10. Cancer registration.

III. Reasoning Out:

(4 x 5 = 20)

1. Explain why randomization is done in a randomized controlled trial?
2. Explain how health promotion is useful in improving the health of a population?
3. Explain the role of primary eye care in reducing the problem of blindness.
4. At least three-quarters of the world's deaths from cardiovascular diseases occur in low and middle-income countries. Give reasons.

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE

Q.P. Code: 202052

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 15 = 30)

1. Epidemiology of blood borne viral infections. Enumerate the strategies for its prevention.
2. Describe the steps in the design of cohort studies. Discuss the biases that may affect cohort studies.

II. Short notes:

(10 x 5 = 50)

1. Health effects of 'thermal stress' and preventive measures.
2. Epidemiology of measles and the challenges in eradication of measles.
3. Anti-rodent measures.
4. Prevention and control of Non-Communicable Diseases.
5. List the various methods in assessing nutritional status in individuals and populations. Mention the challenges in each of the methods.
6. Discuss the ethical principles in clinical research.
7. Ecological studies and their importance in public health.
8. Prevention of food adulteration.
9. The minimum standards for housing.
10. Strategies to reduce burden of cancers.

III. Reasoning Out:

(4 x 5 = 20)

1. Role of physical activity in health.
2. Discuss the potential bioterror agents and the preparedness for tackling bioterrorism.
3. Epidemiological methods for comparing mortality in different populations.
4. Significance of Incubation period, communicable period and their application in control of infectious diseases.

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE

Q.P. Code: 202052

Time : Three Hours

Maximum : 100 Marks

I. Essay: **(2 x 15 = 30)**

1. Discuss the various activities for cervical cancer management under NPCDCS.
2. Discuss the justification, strategy, challenges in Measles Rubella MR vaccination and offer solutions.

II. Short notes: **(10 x 5 = 50)**

1. Epidemiology of hospital acquired Staphylococcal infection and its control.
2. Tamil Nadu Accident and Emergency Care Initiative. Discuss its role in disability limitation across the state.
3. Is 'Kala Azar' re-emerging as a public health problem?
4. How is air-pollution measured? Discuss the various actions taken by the government to control it.
5. Discuss the actions in the post eradication of Polio.
6. Discuss 'targeted interventions' in HIV control.
7. Enlist the epidemiological types of malaria and discuss how control measures differ across these types?
8. Discuss indicators for measurement of Aedes aegypti problem in the community.
9. Role of intersectoral coordination with the Veterinary medicine department in control of 'flu epidemic'.
10. Discuss the current modifications in treatment categories under RNTCP.

III. Reasoning Out: **(4 x 5 = 20)**

1. Discuss epidemiologic conditions which would favour the diagnosis of Rickettsial fever.
2. Justify the importance of various activities recommended for prevention of disability in leprosy.
3. Explain the role of 'environment' in the aetiology, presentation and healthcare of Diabetes.
4. Differentiate 'latent infection' and 'latent period' with examples.

[LQ 157]

AUGUST 2020
(MAY 2020 SESSION)

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE
Q.P. Code: 202052

Time : Three Hours

Maximum : 100 Marks

I. Essay: (2 x 15 = 30)

1. Describe in detail the influence of social, cultural and ecological factors on the of tuberculosis. Add a note on the control of the disease.
2. Write briefly about the initiatives taken and the challenges faced with regard to solid waste management in India.

II. Short notes: (10 x 5 = 50)

1. Social therapy.
2. Global warming
3. Define kurtosis. How does it differ from skewness?
4. Cancer registration.
5. Properties of an ideal disinfectant
6. Waste disposal in urban areas.
7. Emerging infectious diseases.
8. Environmental control of arthropods
9. Global influenza strategy 2019-2030
10. Prevention paradox and its limitations

III. Reasoning Out: (4 x 5 = 20)

1. Housing affects health – Explain
2. Isolation vs Quarantine
3. Criteria for World Health Organization to declare a situation as public health emergency of international concern (PHEIC).
4. Role of group dynamics in Measles and Rubella prevention and control in India.

[LS 157]

NOVEMBER 2020
(OCTOBER 2020 SESSION)

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE

Q.P. Code: 202052

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 15 = 30)

1. Describe the epidemiology, management, prevention and control of Japanese Encephalitis.
2. Classify disaster. Write the elements of disaster management. Add a note on disaster management cell at district level.

II. Short notes:

(10 x 5 = 50)

1. Birth dose vaccines.
2. Minimum standards for slaughter houses.
3. Prevention of Parent to Child Transmission of HIV
4. Define Incidence Density and Cumulative Incidence. Discuss their importance.
5. Principles of integrated clinical case management in IMNCI
6. Wealth Index
7. Receiver Operating Characteristic (ROC) Curve
8. Mental Health Action plan 2013-2020
9. Vision 2020: The Right to Sight
10. The Elimination Yellow Fever Epidemic (EYE) Strategy

III. Reasoning Out:

(4 x 5 = 20)

1. Role of Zinc in management of Acute Diarrhoeal Diseases.
2. Rationale for administering Tetanus toxoid in pregnancy.
3. Role of VVM in Immunisation
4. Birth dose of OPV is called Zero Dose – Explain.

[MD 0721]

JULY 2021
(MAY 2021 SESSION)

Sub. Code: 2052

M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE

Q.P. Code: 202052

Time : Three Hours

Maximum : 100 Marks

I. Essay: **(2 x 15 = 30)**

1. Describe the epidemiology of poliomyelitis. Discuss the current status towards its eradication and the challenges in eradicating polio virus.
2. Write briefly on the epidemiology of Diphtheria. Discuss the factors for re-emergence of Diphtheria and the control measures.

II. Short notes: **(10 x 5 = 50)**

1. Discuss the various currently used 'levels of prevention' in non-communicable diseases and its challenges.
2. Write briefly on prevention of hospital acquired infections.
3. Discuss the effects of improper housing conditions on health.
4. Describe the measures for prevention and control of noise pollution in factories.
5. Describe the methods for solid waste disposal in an urban area.
6. Write briefly on the importance of segregation of biomedical waste and how it is segregated?
7. Write briefly on the epidemiology of zika virus disease.
8. Briefly write on the strategies in prevention of sexually transmitted infections.
9. What are the effects of various forms of tobacco use on health?
10. Discuss the common causes of visual impairment and the preventive measures in India.

III. Reasoning Out: **(4 x 5 = 20)**

1. Explain the differences between 'Type I and Type II- lepra reactions'.
2. Discuss the importance of communicable disease reporting in disease control.
3. Impact of technological advances on development of non-communicable diseases.
4. Discuss the challenges in implementation of vaccination against human papilloma virus.

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

[MD 0522]

MAY 2022

Sub. Code: 2052

M.D. DEGREE EXAMINATION

BRANCH XV – COMMUNITY MEDICINE

PAPER II – COMMUNITY MEDICINE

Q.P. Code: 202052

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 15 = 30)

1. There is an outbreak of an atypical flu with high secondary attack rate and no specific treatment. Plan a strategy for control and how would you evaluate the success of your strategy?
2. Discuss sources and consequences of thermal pollution of water. How is surveillance for provision of safe water done?

II. Short notes:

(10 x 5 = 50)

1. Critical review of National Program for control of Viral Hepatitis.
2. Diagnosis and management of malaria case and follow up action as per the NVBDCP.
3. Discuss clinical features and environmental context to suspect Leptospirosis and give control measures.
4. The change in diagnostic guidelines for tuberculosis as per NTEP and its Significance.
5. Indicators for monitoring and supervision of leprosy control.
6. Management as per 'Syndromic approach' for lower abdominal pain of women in reproductive age group and the significance.
7. Diabetes control and management at the primary, secondary and tertiary health care levels as per NCPDCS guidelines.
8. Essential components of Disaster Preparedness at the District level.
9. Criteria for compliance to Clinical Establishment Act, relating to biomedical waste management.
10. As a district administrator, explain the strategy you would follow for creating awareness relating to Dengue control, analyzing its advantages and disadvantages.

III. Reasoning Out:

(4 x 5 = 20)

1. Justify cost and consequence of including Rubella vaccine with measles vaccine.
2. Indication for antibiotics for a under-five with diarrhea as per IMNCI guidelines.
3. Compare and contrast vector characteristics of those causing malaria and filariasis.
4. Control of HT is more contributory to prevention of stroke than cardiovascular diseases. How would you prove this?

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

[MD 1022]

OCTOBER 2022

Sub. Code: 2052

M.D. DEGREE EXAMINATION

BRANCH XV – COMMUNITY MEDICINE

PAPER II – COMMUNITY MEDICINE

Q.P. Code: 202052

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 15 = 30)

1. Describe about the epidemiological determinants of Diabetes and discuss about life style modifications in prevention and promotion of health.
2. Discuss how the bionomics of insects is useful in controlling communicable diseases.

II. Short notes:

(10 x 5 = 50)

1. Prevention and treatment of Soil transmitted helminthes.
2. Filarial Survey.
3. Risk factor intervention trials done for Coronary heart disease.
4. Cancer registry.
5. Epidemiological reasoning for use of Screening as a tool in cancer control.
6. Ambient air quality.
7. Sex ratio in India and discuss the various factors affecting it.
8. Discuss the role of management information system in the delivery of primary health care.
9. Various methods of information, education and communication.
10. Integrated Counseling and Testing Center.

III. Reasoning Out:

(4 x 5 = 20)

1. Ventilation influences health – explain.
2. Food security Vs food safety.
3. Criteria for WHO to declare a situation as public health emergency of international concern.
4. Family plays a major role in Health – Justify.

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

[MD 0723]

JULY 2023

Sub. Code: 2052

(MAY 2023 EXAM SESSION)

M.D. DEGREE EXAMINATION

BRANCH XV – COMMUNITY MEDICINE

PAPER II – COMMUNITY MEDICINE

Q.P. Code: 202052

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 15 = 30)

1. What are Microplastics? Discuss sources of Microplastics and its effects on human health. Discuss in detail the steps taken by Government of India to reduce plastic pollution.
2. What is Palliative care? What are the dimensions and levels of Palliative care? Describe the pain management algorithm under the National Palliative care Programme 2012 with details of WHO ladder for Cancer pain.

II. Short notes:

(10 x 5 = 50)

1. 6X6X6 strategy in Anaemia control.
2. What is the difference between Comprehensive and Selective Primary Health Care? Mention the different components of Comprehensive Primary Health Care under Ayushman Bharat.
3. Enumerate the Challenges in implementation of Medical Certification of Cause of Death Program in India.
4. Windrow composting.
5. Strategies for environmental and case surveillance for Polio in India.
6. Syndromic approach Vs Laboratory approach in Reproductive tract infection management.
7. Biological vector control methods in Dengue.
8. What is Y-Y paradox? Discuss the advantages and disadvantages of different tools for assessment of obesity.
9. Management of a child born to HIV positive mother.
10. Discuss the rationale, indications and contraindications for Tuberculosis Preventive therapy in India.

III. Reasoning Out:

(4 x 5 = 20)

1. Drinking Reverse Osmosis water cause more bodily harm than contaminants found in water- Justify.
2. Need for adopting targeted approach rather than universal mega dose Vitamin A supplementation in India - Justify the statement.
3. “Avoid whites” is the healthy recommendation for diet, critically analyses this.
4. Montreal protocol considered as a powerful climate treaty than Kyoto protocol – Justify.

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

[MD 1223]

**DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)**

Sub. Code: 2052

**M.D. DEGREE EXAMINATION
BRANCH XV – COMMUNITY MEDICINE
PAPER II – COMMUNITY MEDICINE**

Q.P. Code: 202052

Time : Three Hours

Maximum : 100 Marks

I. Essay: (2 x 15 = 30)

1. Discuss the objectives, strategy and implementation of National Tuberculosis Elimination Programme. Critically appraise the Programme.
2. As a Community Physician in charge of a district, explain in detail how you would assess and prepare a report for a given town, the various parameters of Water Pollution.

II. Short notes: (10 x 5 = 50)

1. Cafeteria approach for contraception - discuss the challenges in its implementation.
2. Briefly discuss how Quality is assured in providing maternal care under NHM.
3. A 3 years old girl child in a town is diagnosed with mild under nutrition. Explain how care can be provided to this child, applying the principles of Primary Health Care.
4. Discuss how the component of “Supportive Supervision” as part of human resource management is implemented in the primary health care system in Tamil Nadu.
5. Discuss management of Nutritional Anemia among Adolescents – the existing program and challenges in its implementation.
6. Discuss the role of technical head, administrative head and elected people’s representatives’ leadership in health administration in India.
7. Discuss the various leadership styles.
8. Discuss the importance of “Near miss deaths” in analysis of maternal mortality.
9. Give the parameters of health care monitoring of the under five children as followed in the MCH Card of the ICDS.
10. Discuss the component of “Care of the elderly” under the RCH program.

III. Reasoning Out: (4 x 5 = 20)

1. The ICMR recommendation of Balanced diet – discuss the Feasibility of its application.
2. Compare and contrast Growth Rate, Total Fertility Rate and Net Reproductive Rate.
3. Compare and Contrast MBO and MBE (Management by Objectives and Management by Exception) as Qualitative Management Techniques.
4. “Avoid whites” is the healthy recommendation for diet, critically analyse this.
