

MANIPAL UNIVERSITY**THIRD SEMESTER MASTER OF PUBLIC HEALTH
DEGREE EXAMINATION – DECEMBER 2015****SUBJECT: MPH – 621: PUBLIC HEALTH INTERVENTION, PROGRAMME
MONITORING AND EVALUATION
(SPECIALIZATION: EPIDEMIOLOGY/EOH/MCH)**

Monday, December 14, 2015

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ Write Essays on:

1. What are the different types of M&E frameworks? Explain each one of them in detail.
2. Compare and contrast Monitoring and Evaluation.
3. What is health impact assessment? What are the steps involved in health impact assessment?
4. What is outcome research? What are the different themes in outcome research and its' uses?
(10 marks × 4 = 40 marks)

5. Write short notes on:

- 5A. What is data triangulation and why is it important?
- 5B. Write any three principles of public health planning.
- 5C. What are the limitations of using an indicator and what are the alternatives?
- 5D. What is project life cycle? Explain different phases of project life cycle.
- 5E. What is rapid rural appraisal?
- 5F. How to conduct polling booth surveys?
(5 marks × 6 = 30 marks)



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MANIPAL UNIVERSITY

THIRD SEMESTER MASTER OF PUBLIC HEALTH DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: ENH – 623: ENVIRONMENTAL EXPOSURE ASSESSMENT AND CONTROL
(SPECIALIZATION: ENVIRONMENTAL AND OCCUPATIONAL HEALTH)

Tuesday, December 15, 2015

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ **Answer ALL the questions.**

1. Illustrate the critical elements of a human exposure assessment study.
2. What are the multiple media, multiple route, multiple pathway exposure/dose assessment?
3. How you will assess exposures with biological markers?
4. Explain the direct and indirect approaches in exposure assessment.
(10 marks × 4 = 40 marks)
5. **Write short notes on the following:**
 - 5A. Population at higher or highest risk
 - 5B. Active Samplers
 - 5C. Risk Assessment and Risk Management
 - 5D. Different types of Dose
 - 5E. Noise monitoring techniques
 - 5F. List out the water pollutants and its related diseases

(5 marks × 6 = 30 marks)



MANIPAL UNIVERSITY**THIRD SEMESTER MASTER OF PUBLIC HEALTH
DEGREE EXAMINATION – DECEMBER 2015**

**SUBJECT: MPH – 625: PUBLIC HEALTH SYSTEM AND NATIONAL HEALTH
POLICIES, SYSTEMS AND PROGRAMMES
(SPECIALIZATION: EPIDEMIOLOGY)**

Tuesday, December 15, 2015

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ Long answer questions:

1. What are the objectives of the national health policy of the year 2002? Discuss briefly any five policy prescriptions from national health policy, 2002.
2. Discuss the different strategies for vector control under the national vector borne disease control programme.
3. Discuss the various components of National Rural Health Mission.
4. Describe the various activities required for effective implementation of mass drug administration for Filariasis.

(10 marks × 4 = 40 marks)

5. Short answer questions:

- 5A. Insecticide treated bed nets
- 5B. Functions of Integrated Counselling and Testing center
- 5C. Reasons for the emergence of multi drug resistant tuberculosis
- 5D. Salient features of national blindness control programme
- 5E. Control of soil transmitted helminths
- 5F. Multi drug therapy

(5 marks × 6 = 30 marks)

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THIRD SEMESTER MASTER OF PUBLIC HEALTH DEGREE EXAMINATION – DECEMBER 2015

**SUBJECT: MCH – 627: MATERNAL AND CHILD HEALTH CARE – GLOBAL
CHALLENGES**

(SPECIALIZATION: MATERNAL AND CHILD HEALTH)

Wednesday, December 16, 2015

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ **Long Essay:**

1. Discuss the contributing factors for maternal mortality in African nations.
2. Explain the role of NGOs in MCH.
3. Compare the health indicators of Nigeria with Ethiopia and other African nations.
4. Discuss the causes of death of under-five children in developing nations.

(10 marks × 4 = 40 marks)

5. **Short notes:**

- 5A. Female genital mutilation
- 5B. Level of health care delivery in Kenya Essential Package for Health
- 5C. Provincial General Hospitals
- 5D. HIV in African nations
- 5E. Challenges in MCH in North East India
- 5F. President's Malaria Initiative 2005

(5 marks × 6 = 30 marks)

MANIPAL UNIVERSITY

THIRD SEMESTER MASTER OF PUBLIC HEALTH DEGREE EXAMINATION – DECEMBER 2015

**SUBJECT: MPH – 627: ADVANCED BIOSTATISTICS FOR PUBLIC HEALTH
(SPECIALIZATION: EPIDEMIOLOGY)**

Wednesday, December 16, 2015

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ **Answer ALL the questions.**

1. Following table gives data on population and number of deaths by age in two cities A and B. Compare the overall risk of death in the two cities by performing standardization of rates. (Take average or sum of populations of two cities as standard)

Age group	CITY A		CITY B	
	Population	Deaths	Population	Deaths
0-4	500,000	5,000	8,000	110
5-14	1,500,000	5,000	27,000	105
15-44	3,000,000	10,000	115,000	400
45-64	2,000,000	15,000	40,000	350
65+	1,000,000	25,000	10,000	335
Total	8,000,000	60,000	200,000	1,300

(5 marks)

2. Write a short note on Factor analysis.

(5 marks)

3. Discuss the applications of repeated measures ANOVA in health sciences research with suitable examples.

(5 marks)

4. Construct an example for the application of logistic regression and write the model for prediction of probability of the event using the same example.

(10 marks)

5. A cohort study was set up to investigate whether people working in textile mills exposed to cotton were associated with an increased risk of asthma. There were 3000 employees among them 1000 people were exposed cotton. Further among 1000 people who were exposed to cotton, 400 were smokers and 600 were non smokers. The number of people developed asthma among smokers and non smokers were 45 and 23 respectively. Among 2000 people who were not exposed to cotton, there were 600 smokers and 1400 non smokers. The number of people developed asthma in respective group is 15 and 40.
- 5A. What is the strength of association between the exposure to cotton and occurrence of Asthma? Interpret it.
- 5B. Find the strength of association between the exposure to cotton and Asthma after adjusting for smoking habit.
- (10 marks)
6. Write a short note on importance of time series forecast in public health.
- (5 marks)
7. What is multiple imputation? List its advantages and disadvantages.
- (5 marks)
8. Explain the Cochran Mantel Haenszel chisquare test for finding conditional association in a cohort study.
- (7 marks)
9. Describe Poisson regression for modelling count outcome variable.
- (8 marks)
10. Describe in detail the life table method of estimating survival function.
- (10 marks)

MANIPAL UNIVERSITY**THIRD SEMESTER MASTER OF PUBLIC HEALTH
DEGREE EXAMINATION – DECEMBER 2015****SUBJECT: ENH – 625: OCCUPATIONAL AND ENVIRONMENTAL SAFETY
(SPECIALIZATION: ENVIRONMENTAL AND OCCUPATIONAL HEALTH)**

Wednesday, December 16, 2015

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ Long Essays:

1. What are the health effects of exposure to cotton dust? Describe the preventive measures for it.
2. Describe the chemical health hazards in health care workers and preventive methods for them.
3. Describe the preventive methods for psychological hazards at workplace.
4. Write in details about the conflicts in ethical norms in environmental and occupational health.
(10 marks × 4 = 40 marks)

5. Short notes:

- 5A. Difference between allergic and irritant contact dermatitis
- 5B. Frost nip
- 5C. Trench foot
- 5D. Serial PEFR
- 5E. Threshold Limit Values
- 5F. Control of Noise hazards

(5 marks × 6 = 30 marks)



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THIRD SEMESTER MASTER OF PUBLIC HEALTH DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: MPH – 629: CHRONIC DISEASE EPIDEMIOLOGY
(SPECIALIZATION: EPIDEMIOLOGY)

Thursday, December 17, 2015

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ **Long answer questions:**

1. What are the adverse health effects caused by smoking? Explain in detail about the six policies of WHO's MPOWER package to counter the tobacco epidemic.
2. Describe the preventive aspects of mental health. Mention about the different mental health services provided in the community.
3. Design a screening program for Cancer cervix in a Primary health center in your locality.
4. Discuss about the risk factors for the development of Hypertension. Explain in detail about the six components which need to be addressed by any country to combat hypertension.

(10 marks × 4 = 40 marks)

5. **Short notes:**

- 5A. "Tracking" of blood pressure
- 5B. Metabolic syndrome
- 5C. Risk factors of COPD
- 5D. Causes of preventable blindness in India
- 5E. Multiple Risk Factor Intervention Trial (MRFIT)
- 5F. Salt intake

(5 marks × 6 = 30 marks)

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MANIPAL UNIVERSITY

THIRD SEMESTER MASTER OF PUBLIC HEALTH DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: ENH – 627: RISK ASSESSMENT IN ENVIRONMENT AND OCCUPATIONAL HEALTH
(SPECIALIZATION: ENVIRONMENTAL AND OCCUPATIONAL HEALTH)

Thursday, December 17, 2015

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ **Long Essays:**

1. Discuss the role of risk communication in health risk assessment.
2. Write in details about the sources of information for hazard identification in risk assessment.
3. Describe the problems related to uncertainty analysis.
4. Describe the role of different epidemiological study in health risk assessment.

(10 marks × 4 = 40 marks)

5. **Short notes:**

- 5A. HAZOP study
- 5B. Dose response curve
- 5C. Characteristics of risk analysis
- 5D. Slope factor
- 5E. Threshold Limit Values
- 5F. Effective, Toxic and lethal dose

(5 marks × 6 = 30 marks)



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THIRD SEMESTER MASTER OF PUBLIC HEALTH DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: MCH – 629: RECENT ADVANCES IN MATERNAL AND CHILD HEALTH
(SPECIALIZATION: MATERNAL AND CHILD HEALTH)

Thursday, December 17, 2015

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ **Long Essay:**

1. Discuss Integrated management of Neonatal and childhood illness.
2. Discuss the requirements of an adolescent health clinic.
3. Write a short essay on Nutritional anaemia.
4. What are the recent advances in molecular genetics?

(10 marks × 4 = 40 marks)

5. **Short notes:**

- 5A. Causes of perinatal mortality
- 5B. Priority areas in adolescent health
- 5C. Chromosomal disorders
- 5D. Uses of school health care
- 5E. Pentavalent vaccine
- 5F. Mala D

(5 marks × 6 = 30 marks)



MANIPAL UNIVERSITY

**THIRD SEMESTER MASTER OF PUBLIC HEALTH
DEGREE EXAMINATION – DECEMBER 2015**

**SUBJECT: MPH – 623: PRINCIPLES OF COMMUNICATION
(SPECIALIZATION: EPIDEMIOLOGY/MCH)**

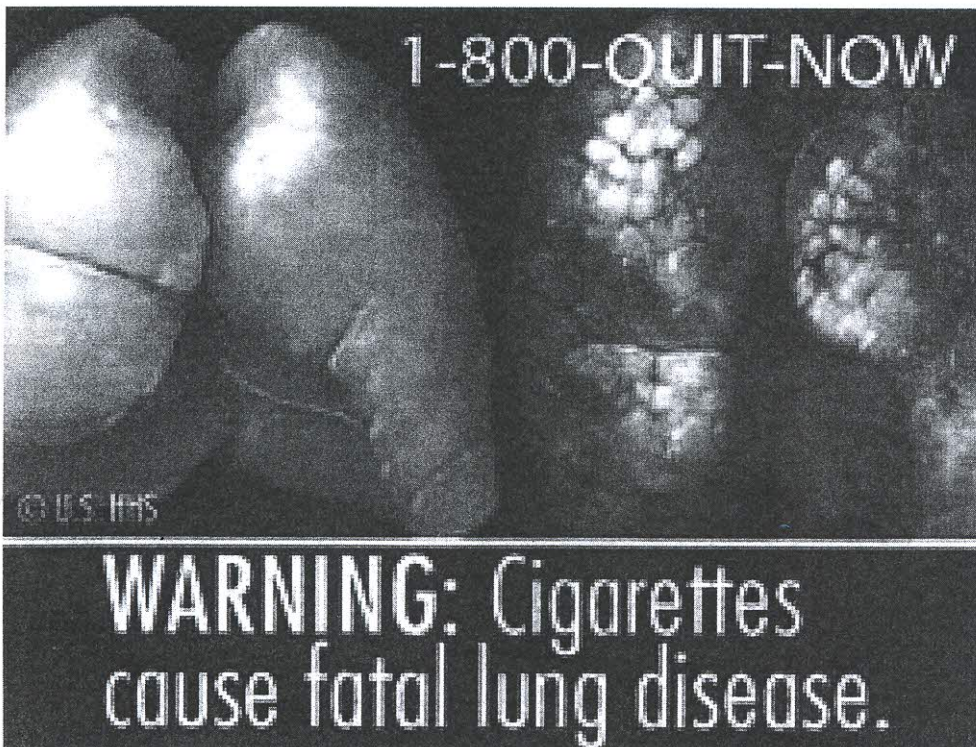
Friday, December 18, 2015

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ Long Essay:

1. Define Communication. Explain the process of communication. (10 marks)
2. Identify the difference between Verbal and Non Verbal Communication. (10 marks)
3. Explain the concepts adopted by Harold Lasswell and Wilbur Schramm in the communication models conceptualized by them. (15 marks)
4. Write a newspaper feature to create an awareness on the water borne diseases that commonly found in Coastal region. (15 marks)
5. Identify major problems that surface in promotion of Public Health and explain how it could be resolved with effective help of media messages. (15 marks)
6. Write your understanding about the following image:



(5 marks)



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MANIPAL UNIVERSITY

THIRD SEMESTER MASTER OF PUBLIC HEALTH DEGREE EXAMINATION – DECEMBER 2015

**SUBJECT: ENH – 629: RECENT ADVANCES IN ENVIRONMENTAL AND
OCCUPATIONAL HEALTH**

(SPECIALIZATION: ENVIRONMENTAL AND OCCUPATIONAL HEALTH)

Friday, December 18, 2015

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ **Long Essays:**

1. Discuss the health hazards in thermal power plant workers.
2. Discuss the gender issues of occupational health.
3. Describe the health hazards due to shift work.
4. Describe the potential health hazards from nuclear plant installations.

(10 marks × 4 = 40 marks)

5. **Short notes:**

- 5A. National Disaster Management Authority
- 5B. Safe disposal of bio medical wastes
- 5C. Resources for occupational health persons
- 5D. Health effects in Bhopal gas tragedy victims
- 5E. National Safety Council
- 5F. Health hazards from genetically modified foods

(5 marks × 6 = 30 marks)

