

**MD (MICROBIOLOGY) –FINAL YEAR(SUPPLE) EXAMINATION; DECEMBER – 2017  
(SUB.: BACTERIOLOGY AND MYCOLOGY; PAPER CODE- 01220102)**

**Time: 3 Hours****Maximum Marks: 100****Instructions:**

1. Write your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided correct question paper. Complaints in this regards, if any, should be made within 15 minutes of the commencements of Exam. No complaints will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

- Q.1. Write briefly about Bacterial vaginosis. (10)
- Q.2. Newer methods in diagnosis of Tuberculosis. (10)
- Q.3. Scrub typhus emergence in india. (10)
- Q.4. Enumerate and write down the laboratory diagnosis of nontyphoidal salmonella. (10)
- Q.5. Current status of Leptospirosis in India and its laboratory diagnosis. (10)
- Q.6. Describe the etiology of bacterial pneumonia and its laboratory diagnosis. (10)
- Q.7. Write briefly about Vancomycin resistance enterococci. (10)
- Q.8. Non albicans candida. (10)
- Q.9. Opportunistic fungal infections. (10)
- Q.10. Sub-cutaneous fungal infections. (10)

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S. No.: 9943(S)

Roll No. \_\_\_\_\_

**MD (MICROBIOLOGY) –FINAL YEAR (SUPPLE) EXAMINATION; DECEMBER – 2017  
(SUB.: VIROLOGY AND PARASITOLOGY; PAPER CODE- 01220103)**

**Time: 3 Hours**

**Maximum Marks: 100**

**Instructions:**

1. Write your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided correct question paper. Complaints in this regards, if any, should be made within 15 minutes of the commencements of Exam. No complaints will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

- Q.1. Describe the epidemiology, clinical features and laboratory diagnosis of toxoplasmosis in humans. (10)
- Q.2. Enumerate and discuss the liver flukes of medical importance in India. (10)
- Q.3. Discuss the newer diagnostic tests for Malarial parasites. (10)
- Q.4. Enumerate the tissue nematodes and discuss the pathogenesis, life cycle and laboratory diagnosis of any one of them. (10)
- Q.5. Discuss the current status and recent advances in Hepatitis E virus infection. (10)
- Q.6. Discuss the epidemiology, pathogenesis and laboratory diagnosis of Ebola virus. (10)
- Q.7. Write briefly on the viral infections associated with HIV infection. (10)
- Q.8. Describe the methods for detecting viral growth in cell cultures. (10)
- Q.9. Discuss the epidemiology and laboratory diagnosis of H1N1 virus infection. (10)
- Q.10. Write briefly on Human Herpes Virus 4. (10)

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S. No.: 9944 (S)

Roll No. \_\_\_\_\_

**MD (MICROBIOLOGY) –FINAL YEAR (SUPPLE) EXAMINATION; DECEMBER – 2017  
(SUB.: APPLIED MICROBIOLOGY AND RECENT ADVANCES; PAPER CODE- 01220104)**

**Time: 3 Hours**

**Maximum Marks: 100**

**Instructions:**

1. Write your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided correct question paper. Complaints in this regards, if any, should be made within 15 minutes of the commencements of Exam. No complaints will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

- Q.1. Discuss the causes and laboratory diagnosis of atypical pneumonia. (10)
- Q.2. What are the different phenotypic and genotypic methods of detecting ESBL. (10)
- Q.3. What are the methods of environmental air monitoring in hospitals. (10)
- Q.4. Write briefly on Pyrosequencing. (10)
- Q.5. Write about strategies of laboratory containment of pathogens. (10)
- Q.6. Gut microbiome and their role in health and disease. (10)
- Q.7. What are Oncogenic viruses. Discuss the molecular mechanism of viral oncogenesis. (10)
- Q.8. What are genetically modified organisms? What are their uses in medical research? (10)
- Q.9. Write briefly on newer viral vaccines. (10)
- Q.10. Discuss the current biomarkers of sepsis. (10)

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Sr.No. 9956(S)

Roll No. \_\_\_\_\_

**MD (COMMUNITY MEDICINE) – FINAL YEAR(SUPPLE) EXAMINATIONS; DECEMBER 2017  
(SUB:- BASIC SCIENCES AS APPLIED TO COMMUNITY MEDICINE; PAPER CODE:-01250101)**

**TIME: 03:00 Hrs.**

**Max Marks:100**

**Instructions:-**

1. Write your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with correct question paper. Complaints in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Draw the diagram wherever required.

- Q.1.** Discuss regarding Bonferroni Correction with special reference to where, how and why is it used in Community Medicine. (10)
- Q.2.** What do you mean by “Meta-Performance Analysis with available “ Gold Standard”? How would you use the method for Nursing care in the Hospital. (10)
- Q.3.** Discuss briefly on Environmental Kuznets curve with special mention about the Health economics study and hypothesis development. (10)
- Q.4.** Discuss the recent advances in prevention of Atopic Eczema in Hospital. (10)
- Q.5.** Discuss in detail about Cox Proportional hazards model in survival analysis. (10)
- Q.6.** Write in brief regarding the recent advances in leprosy vaccine and the trials thereof undertaken by WHO. (10)
- Q.7.** Draw the Diagrams of Moreno’s sociograms and discuss how can it be utilized for Medical education. (10)
- Q.8.** Discuss in detail on Epidemiology prevention & control of Vincent’s Angina. (10)
- Q.9.** Design a research study on Community Based Prevention program of Rheumatic Fever and Rheumatic Carditis to be run by the Community with technical support by Faculty of Community Medicine. (10)
- Q.10.** Write in detail the methods and observations of Global burden of Ischemic Heart Study (GBD, 2010). (10)

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Sr.No. 9957(S)

Roll No. \_\_\_\_\_

**MD (COMMUNITY MEDICINE) – FINAL YEAR (SUPPLE) EXAMINATIONS; DECEMBER - 2017**  
(SUB:- PUBLIC HEALTH ADMINISTRATION & MANAGEMENT SCIENCE; PAPER CODE:-01250102)

**TIME: 03:00 Hrs.**

**Max Marks:100**

**Instructions:-**

1. Write your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with correct question paper. Complaints in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Draw the diagram wherever required.

- Q.1.** Discuss the management of biomedical waste of a teaching hospital. (10)
- Q.2.** Describe the short-term effects of a major disaster. How will you carry out disaster preparedness at community level? (10)
- Q.3.** How will you handle barriers to effective communication during planning a health promotion talk in a school? (10)
- Q.4.** Discuss the relevance and role of Primary health care after extent of achievement strategy of health for all 2000AD. (10)
- Q.5.** Write the Indian Public Health Standards for a Community Health Centre. (10)
- Q.6.** Discuss the health related aspect of Sustainable Development Goals (SDGs). How does it differ from millennium Development Goals (MDGs)? (10)
- Q.7.** Discuss how the principle of health economics can be used by the health manager in decision making. (10)
- Q.8.** “ Evaluation is an important step in health planning”. Discuss giving example of evaluation of a primary health centre. (10)
- Q.9.** Describe the techniques used for inventory management of a medical store in a large hospital, (10)
- Q.10.** Describe salient features of Pre-Conception & Pre-Natal Diagnostic Techniques (Prohibition of Sex Determination) Act 1994. (10)

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Sr.No. 9958 (S)

Roll No. \_\_\_\_\_

**MD (COMMUNITY MEDICINE) – FINAL YEAR (SUPPL.F) EXAMINATION; DECEMBER - 2017  
(SUB:- COMMUNITY MEDICINE & FAMILY PRACTICE; PAPER CODE:-01250103)**

**TIME: 03:00 Hrs.**

**Max Marks:100**

**Instructions:-**

1. Write your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with correct question paper. Complaints in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Draw the diagram wherever required.

- Q.1.** What is Golden Hour concept in head injury management? How will you evaluate the functioning of an Advanced Trauma Centre? Just enlist 10 indicators. (10)
- Q.2.** A housewife reports lice infestation in her maid's children. How will you counsel her to tackle this issue? (10)
- Q.3.** Enumerate at least 5 epidemiological features of leptospirosis along with the manner in which it can be tackled at community level. (10)
- Q.4.** What are the health problems faced by adolescent girls? Devise a brochure to encourage optimum menstrual hygiene among adolescent girls from urban India (10)
- Q.5.** Enlist at least 5 child health related public health laws which were enacted in India. Discuss implications of anyone of these. (10)
- Q.6.** Outline a plan for evaluation of a hotel management training institute with regards to its performance in imparting training on food safety concept to its students. (10)
- Q.7.** Describe primary, secondary and tertiary prevention measures for low back pain in nurses of a tertiary care hospital of India. (10)
- Q.8.** How and why has the role/ importance of family planning/ welfare and of contraceptives changed in India over last 50 years? (10)
- Q.9.** Outline as systems analysis framework to improve immunization service coverage among slum dwellers in Kanpur UP. (10)
- Q.10.** Outline a plan for evaluation of implementation of National Program for Control of Blindness in India? Also discuss about the status of low vision aids in India. (10)

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Sr.No. 9960(S)

Roll No. \_\_\_\_\_

**MD (COMMUNITY MEDICINE) – FINAL YEAR (SUPPLE) EXAMINATION; DECEMBER - 2017  
(SUB:- RECENT ADVANCES IN COMMUNITY MEDICINE; PAPER CODE:-01250104)**

**TIME: 03:00 Hrs.**

**Max Marks:100**

**Instructions:-**

1. Write your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with correct question paper. Complaints in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Draw the diagram wherever required.

- Q.1. Prevention of Food Adulteration Act. (10)**
- Q.2. Methods of evaluation. (10)**
- Q.3. Meta-analysis. (10)**
- Q.4. MCTS tracking system in MCH. (10)**
- Q.5. MR vaccine. (10)**
- Q.6. Write a note on Ebola infection. (10)**
- Q.7. Write a note on e-Health. (10)**
- Q.8. Give a brief about Home Based Neonatal Care (HBNC) programme. (10)**
- Q.9. Nikshay in RNTCP. (10)**
- Q.10. RDTs in Malaria diagnosis. (10)**

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