## ENTRANCE EXAMINATION FOR ADMISSION, MAY 2011. M.Phil/Ph.D. (MICROBIOLOGY) COURSE CODE: 128

| Register Number : |   |  |     |                |                    |       |        |
|-------------------|---|--|-----|----------------|--------------------|-------|--------|
|                   | 4 |  |     |                |                    |       |        |
|                   |   |  | Sig | nature<br>(wit | of the<br>th date) | Invig | ilator |
|                   |   |  |     |                |                    |       |        |

COURSE CODE: 128

Time: 2 Hours Max: 400 Marks

## Instructions to Candidates:

- 1. Write your Register Number within the box provided on the top of this page and fill in the page 1 of the answer sheet using pen.
- 2. Do not write your name anywhere in this booklet or answer sheet. Violation of this entails disqualification.
- 3. Read each question carefully and shade the relevant answer (A) or (B) or (C) or (D) in the relevant box of the ANSWER SHEET using HB pencil.
- 4. Avoid blind guessing. A wrong answer will fetch you -1 mark and the correct answer will fetch 4 marks.
- Do not write anything in the question paper. Use the white sheets attached at the end for rough works.
- 6. Do not open the question paper until the start signal is given.
- 7. Do not attempt to answer after stop signal is given. Any such attempt will disqualify your candidature.
- 8. On stop signal, keep the question paper and the answer sheet on your table and wait for the invigilator to collect them.
- 9. Use of Calculators, Tables, etc. are prohibited.

| 1. | The  | techniques of sterilization were introd        | uced l  | by                                |
|----|------|--|---------|-----------------------------------|
|    | (A)  | Louis Pasteur                                  | (B)     | Robert Koch                       |
|    | (C)  | Ferdinand Cohn                                 | (D)     | John Needham                      |
| 2. | Who  | en flagella are distributed all rou<br>nown as | nd tl   | ne bacterial cell the arrangement |
|    | (A)  | Monotrichus                                    | (B)     | Lophotrichus                      |
|    | (C)  | Amphitrichous                                  | (D)     | Peritrichous                      |
| 3. | In h | older method of Pasteurization, milk a         | nd bu   | tter are kept at                  |
|    | (A)  | 63°C for 30 minutes                            | (B)     | 63°C for 60 minutes               |
|    | (C)  | 72°C for 20 minutes                            | (D)     | 72°C for 30 seconds               |
| 4. | Whi  | ich of the following articles can be steri     | lized i | in an autoclave?                  |
|    | (A)  | Dressing material                              | (B)     | Gloves                            |
|    | (C)  | Culture media                                  | (D)     | All of the above                  |
| 5. | Тур  | e I hypersensitivity reaction is mediate       | d by    |                                   |
|    | (A)  | IgE  | (B)     | IgG                               |
|    | (C)  | IgM  | (D)     | IgD                               |
| 6. | Whi  | ch of the following bacteria produces co       | oagula  | ase?                              |
|    | (A)  | Staphylococcus epidermis                       | (B)     | S.aureus                          |
|    | (C)  | S. Saprophyticus                               | (D)     | S. Hominis                        |
| 7. | The  | causative agent of Waterhouse-Freder           | icsen's | s syndrome is                     |
|    | (A)  | Neisseria meningitides                         | (B)     | Treponema pallidum                |
|    | (C)  | Streptoccus pyogens                            | (D)     | Staphylococcus aureus             |
| 8. | Stor | my clot reaction is useful in identificat      | ion of  |                                   |
|    | (A)  | Clostridium tetani                             | (B)     | C.botulinum                       |
|    | (C)  | C.difficile                                    | (D)     | C.perfringens                     |
| 9. | Hun  | nans become infected with Mycobacteri          | um tu   | berculosis most frequently by     |
|    | (A)  | Contact  | (B)     | Inoculation                       |
|    | (C)  | Inhalation                                     | (D)     | Ingestion                         |

| 10. | App  | earance of a hard chancre is characteris   | stic of |                                 |
|-----|------|--|---------|---------------------------------|
|     | (A)  | Tertiary syphilis                          | (B)     | Latent syphilis                 |
|     | (C)  | Secondary syphilis                         | (D)     | Primary syphilis                |
| 11. | The  | most common cause of urinary tract in      | fection | n is                            |
|     | (A)  | Klebsiella pneumonia                       | (B)     | Escherichia coli                |
|     | (C)  | Proteus vulgaris                           | (D)     | Citrobacter freundii            |
| 12. | Wh   | ich of the following media can serve as    | trans   | port medium for Vibrio cholera? |
|     | (A)  | Selenite F broth                           | (B)     | Tetrathionate broth             |
|     | (C)  | Venkatraman-Ramakrishnan medium            | n (D)   | Nutrient broth                  |
| 13. | Colo | onies resembling molar teeth are produc    | ced by  |                                 |
|     | (A)  | Actinomyces israelii                       | (B)     | Nocardia brasiliensis           |
|     | (C)  | N. asteroids                               | (D)     | Actinomadura madurae            |
| 14. | Neg  | ri bodies are found in cells infection wit | h       |                                 |
|     | (A)  | Rabies virus                               | (B)     | Vaccinia virus                  |
|     | (C)  | Fowlpox virus                              | (D)     | Paramyxovirus                   |
| 15. | Wha  | at is the route of transmission of rubella | a viru  | s?                              |
|     | (A)  | Conjunctiva                                | (B)     | Genital tract                   |
|     | (C)  | Alimentary tract                           | (D)     | Respiratory tract               |
| 16. | Kop  | lik's spots are characteristic of which o  | f the f | following infections?           |
|     | (A)  | Mumps                                      | (B)     | Measles                         |
|     | (C)  | Herpes                                     | (D)     | Rubella                         |
| 17. | Whi  | ch is the commonest mode of transmiss      | sion o  | f HIV?                          |
|     | (A)  | Parenteral                                 | (B)     | Sexual                          |
|     | (C)  | Perinatal                                  | (D)     | Oral                            |
| 18. | Whi  | ich of the following dermatophyte which    | n can   | infect skin, hair and nails.    |
|     | (A)  | Trichophyton                               | (B)     | Microsporum                     |
|     | (C)  | Epidermophyton                             | (D)     | None of the above               |

| 19. | Hist | oplasmosis is acquired from                  |            |                                      |
|-----|------|--|------------|--------------------------------------|
|     | (A)  | Water  | (B)        | Animals                              |
|     | (C)  | Soil   | (D)        | Man                                  |
| 20. | Whi  |  | is the m   | nost common cause species infecting  |
|     | (A)  | Trichophyton rubrum                          | (B)        | T. Schoenleinii                      |
|     | (C)  | T. Mentagrophytes                            | (D)        | M. Canis                             |
| 21. | Amo  | biasis is an infection of the large int      | estine in  | man caused by                        |
|     | (A)  | Entamoeba gingivalis                         | (B)        | E. Histolytica                       |
|     | (C)  | E. Nana                                      | (D)        | E. Hartmanni                         |
| 22. | Cyst | ts are the infective stage to man in i       | nfection   | with                                 |
|     | (A)  | Wucheria bancrofti                           | (B)        | Plasmodium sp                        |
|     | (C)  | Giardia lamblia                              | (D)        | Taenia solium                        |
| 23. | Plas | modium falciparum causes                     |            |                                      |
|     | (A)  | Benign terian malaria                        | (B)        | Ovale malaria                        |
|     | (C)  | Quartan malaria                              | (D)        | Malignant tertian malaria            |
| 24. | Hoo  | k worm infection in man leads to de          | eficiency  | of                                   |
|     | (A)  | Vitamin A                                    | (B)        | Iron                                 |
|     | (C)  | Vitamin B12                                  | (D)        | Folic acid                           |
| 25. | In w | hich of the following conditions the         | microfila  | ria is present in peripheral blood?  |
|     | (A)  | Elephantiasis                                | (B)        | Allergic manifestations              |
|     | (C)  | Occult filariasis                            | (D)        | Classical filariasis                 |
| 26. | -    | resistance that is transmitted pass<br>wn as | ively to a | recipient in the 'readymade' form is |
|     | (A)  | Acquired immunity                            | (B)        | Passive immunity                     |
|     | (C)  | Innate immunity                              | (D)        | All of the above                     |
| 27. |      | damage to the respiratory epit               | helium     | and excessive bronchial secretions   |
|     | (A)  | Primary infection                            | (B)        | Secondary infection                  |
|     | (C)  | Tertiary infection                           | (D)        | All of the above                     |

| 28. | Ade   | novirus cause infections in             |            |                           |
|-----|-------|---|------------|---------------------------|
|     | (A)   | Intestine                               | (B)        | Bladder                   |
|     | (C)   | Respiratory tract                       | (D)        | All of the above          |
| 29. | The   | causative agent of syphilis             |            |                           |
|     | (A)   | Mycobacterium tuberculosis              | (B)        | Vibrio cholera            |
|     | (C)   | Treponema pallidum                      | (D)        | Staphylococcus aureus     |
| 30. | In w  | hich phase of bacterial growth curve    | e , cell d | ivision stops             |
|     | (A)   | Lag phase                               | (B)        | Log phase                 |
|     | (C)   | Stationary phase                        | (D)        | Decline phase             |
| 31. | Whi   | ch of the following is a contribution t | o Microl   | piology by Louis Pasteur? |
|     | (A)   | Anthrax bacilli                         | (B)        | Immunity                  |
|     | (C)   | Polio virus                             | (D)        | Candida                   |
| 32. | Prin  | nary stain used in Gram's stain is      |            |                           |
|     | (A)   | Acid Fuchsin Gram's                     | (B)        | Iodine                    |
|     | (C)   | Gentian's violet                        | (D)        | Malachite green           |
| 33. | Exa   | mple of Negative staining is            |            |                           |
|     | (A)   | Potassium iodide                        | (B)        | India ink                 |
|     | (C)   | Acridine orange stain                   | (D)        | Acid fast stain           |
| 34. | Whi   | ch one of the following is a virulence  | factor fo  | or bacteria?              |
|     | (A)   | Capsule                                 | (B)        | Flagella                  |
|     | (C)   | Cell membrane                           | (D)        | Cytoplasmic membrane      |
| 35. | Pau   | l bunnel test is done for diagnosis of  |            |                           |
|     | (A)   | Infectious mononucleosis                | (B)        | Herpes zoster             |
|     | (C)   | Poliomyelitis                           | (D)        | Rabies                    |
| 36. | Filte | er sterilization is NOT done for which  | n of the   | following                 |
|     | (A)   | Vaccines                                | (B)        | Serum                     |
|     | (C)   | Antibiotic solution                     | (D)        | Blood                     |

| 37. | All c            | of the following are a property of Dising       | fectan  | ts EXCEPT                         |
|-----|------------------|---|---------|-----------------------------------|
|     | (A)              | Should be cheap and easily available            |         |                                   |
|     | (B)              | They are all corrosive to skin                  |         |                                   |
|     | (C)              | All antiseptic solutions are disinfecta         | nts     |                                   |
|     | (D)              | Should be used after diluting at a par          | rticula | r concentration                   |
| 38. | The              | temperature of the hot air oven suitab          | le for  | sterilization is                  |
|     | (A)              | $100^{\circ}\mathrm{C}$ for $^{1}/_{2}$ an hour | (B)     | 55°C for 45 min                   |
|     | (C)              | 160 °C for 1 hour                               | (D)     | 200 °C for 10 min                 |
| 39. | Mac              | Conkey's agar is an example for                 |         |                                   |
|     | (A)              | Selective media                                 | (B)     | Enriched media                    |
|     | (C)              | Differential media                              | (D)     | Enrichment media                  |
| 10. | Glut             | teraldehyde solution is used to sterilize       | 9       |                                   |
|     | (A)              | Endocopes                                       | (B)     | Glass items                       |
|     | (C)              | Rubber and plastic                              | (D)     | Operation theatres                |
| 11. | Robe             | ertson's cooked meat media can be use           | d as a  | ll of the following EXCEPT        |
|     | (A)              | Transport media                                 | (B)     | Storage media                     |
|     | (C) <sub>-</sub> | Anaerobic media                                 | (D)     | Selective media                   |
| 12. | Mor              | dant used in gram's stain is                    |         |                                   |
|     | (A)              | Gentian violet                                  | (B)     | Gram's iodine                     |
|     | (C)              | Acetone   | (D)     | Saffranin                         |
| 43. | Wha              | at is NOT true about plasmids?                  |         |                                   |
|     | (A)              | Transfer of nutrients                           | (B)     | Transfer of drug resistance       |
|     | (C)              | Transfer of genetic material                    | (D)     | Extrachromosomal material         |
| 14. | Mec              | hanism of genetic transfer can be due           | to all  | of the following except following |
|     | (A)              | Transformation                                  | (B)     | Transduction                      |
|     | (C)              | Conjugation                                     | (D)     | Mutation                          |
| 45. | The              | holding time of an autoclave is                 |         |                                   |
|     | (A)              | 121 °C for 15 minutes at 15psi                  | (B)     | 100 °C for 1 hour at 15psi        |
|     | (C)              | 160 °C for 30 minutes at 15psi                  | (D)     | 170 °C for 30 minutes at 15psi    |

| 46. | Biol | ogical indicator for autoclave is         |         |                                      |
|-----|------|---|---------|--------------------------------------|
|     | (A)  | Clostridium welchi spores                 | (B)     | Bacillus stereothermophilus spores   |
|     | (C)  | Anthrax bacillus spores                   | (D)     | Bacillus subtilis                    |
| 47. | Fim  | briae of bacteria help in                 |         |                                      |
|     | (A)  | Locomotion                                | (B)     | Phagocytosis                         |
|     | (C)  | Attachment                                | (D)     | Exchange of genetic material         |
| 48. | The  | disadvantage of ethylene oxide in ster    | ilizati | on is                                |
|     | (A)  | Irritant to the eyes                      | (B)     | Carcinogenic                         |
|     | (C)  | Slow action                               | (D)     | Corrosive                            |
| 49. | The  | father of antiseptic surgery is           |         |                                      |
|     | (A)  | Louis Pasteur                             | (B)     | Antonie von Leewenhoeck              |
|     | (C)  | Joseph Lister                             | (D)     | Robert Kock                          |
| 50. | The  | following diseases are usually water/fo   | od bo   | rne EXCEPT                           |
|     | (A)  | Cholera                                   | (B)     | Pulmonary tuberculosis               |
|     | (C)  | Enteric fever                             | (D)     | Bacillary dysentry                   |
| 51. | Star | phylococcal toxic syndrome is due to      |         |                                      |
|     | (A)  | Enterotoxin A                             | (B)     | Enterotoxin D                        |
|     | (C)  | Enterotoxin E                             | (D)     | Enterotoxin F                        |
| 52. | Gas  | gangrene is caused by                     |         |                                      |
|     | (A)  | Clostridium tetani                        | (B)     | Clostridium perfringens              |
|     | (C)  | Clostridium botulinum                     | (D)     | Clostridum difficile                 |
| 53. | QUI  | ELLUNG REACTION is done to identif        | fy whi  | ch of the following                  |
|     | (A)  | Streptococcus pyrogenes                   | (B)     | Streptococcus pneumonia              |
|     | (C)  | Streptococcus mutans                      | (D)     | Streptococcus viridians              |
| 54. |      | of the following includes the non-sgenes. | suppu   | rative complication of streptococcus |
|     | (A)  | Pyoderma                                  | (B)     | Acute rheumatic fever                |
|     | (C)  | Ludwig's angina                           | (D)     | Erysinelas                           |

| 55. | Elel | k's gel precipitation test is for       |        |                           |
|-----|------|---|--------|---------------------------|
|     | (A)  | Gonorrhoea                              | (B)    | Diphtheria                |
|     | (C)  | Anthrax                                 | (D)    | Pneumonia                 |
| 56. | Med  | lusa head appearance of the colony on   | nutrie | ent agar is seen in       |
|     | (A)  | Staphylococcus aureus                   | (B)    | Streptococcus mutans      |
|     | (C)  | Bacillus anthrax                        | (D)    | Clostridum tetani         |
| 57. | Nag  | ler reaction is for rapid detection of  |        |                           |
|     | (A)  | Clostridium perfringens                 | (B)    | Cornebacterium diphtheria |
|     | (C)  | Nesseria gonorrhoea                     | (D)    | Streptococcus viridians   |
| 58. | Ora  | l polio vaccine is a                    |        |                           |
|     | (A)  | Live vaccine                            | (B)    | Killed vaccine            |
|     | (C)  | Toxin                                   | (D)    | Toxoid                    |
| 59. | Niss | sl bodies are seen in                   |        |                           |
|     | (A)  | Rabies                                  | (B)    | Polio                     |
|     | (C)  | Influenza                               | (D)    | HIV                       |
| 60. | Bull | et shaped virus is                      |        |                           |
|     | (A)  | Herpes Virus                            | (B)    | Influenza virus           |
|     | (C)  | Rabies Virus                            | (D)    | Hepatitis virus           |
| 31. | Hyd  | rophobia is seen in                     |        |                           |
|     | (A)  | Herpes                                  | (B)    | Hepatitis                 |
|     | (C)  | Polio                                   | (D)    | Rabies                    |
| 2.  | The  | confirmatory test for HIV is            |        |                           |
|     | (A)  | Northern blot                           | (B)    | Western blot              |
|     | (C)  | Southern blot                           | (D)    | Microscopy                |
| 3.  | HIV  | can be transmitted by all of the follow | ing E  | XCEPT                     |
|     | (A)  | Blood transfusion                       | (B)    | Sexual                    |
|     | (C)  | Insect bite                             | (D)    | IV drugs users            |

| 64. | In e | nteric fever Salmonella may be isolated  | d from  |                          |
|-----|------|--|---------|--------------------------|
|     | (A)  | C.S.F.                                   | (B)     | Wound                    |
|     | (C)  | Blood                                    | (D)     | Genital secretions       |
| 65. | Scal | ded skin syndrome is due to which tox    | in of s | taphylococcus aureus     |
|     | (A)  | Epidermolytic toxin                      | (B)     | Entero toxin             |
|     | (C)  | Coagulase                                | (D)     | Haemolysin               |
| 66. | Met  | achromatic granules are seen in          |         |                          |
|     | (A)  | Corynebacterium diphtheria               | (B)     | Clostridium tetani       |
|     | (C)  | Mycobacterium tuberculosis               | (D)     | Actinomycetes            |
| 67. | Cryp | ptococcus can be diagnosed by            |         |                          |
|     | (A)  | Negative staining                        | (B)     | Acid fast time           |
|     | (C)  | Silver staining                          | (D)     | Wet mount                |
| 68. | Whi  | ch of the following is a dimorphic fung  | i?      |                          |
|     | (A)  | Histoplasma                              | (B)     | Candida                  |
|     | (C)  | Aspergillus                              | (D)     | Mucor                    |
| 69. | Mici | roconidia are abundantly seen in         |         |                          |
|     | (A)  | Trichophyton rubrum                      | (B)     | Epidermophyton floccosum |
|     | (C)  | Microsporum gypseum                      | (D)     | Microsporum nanum        |
| 70. | Pero | centage of KOH used to demonstrate fu    | ıngus   | from clinical samples is |
|     | (A)  | 10% KOH                                  | (B)     | 15% KOH                  |
|     | (C)  | 30% KOH                                  | (D)     | 350% KOH                 |
| 71. | Und  | listurbed morphology of the fungal gro   | wth ca  | an be seen by            |
|     | (A)  | Chlamydospore formation                  | (B)     | Slide culture technique  |
|     | (C)  | Germ tube technique                      | (D)     | Hair balt technique      |
| 72. | Whi  | ch of the following is an antifungal age | ent?    |                          |
|     | (A)  | Ketoconazole                             | (B)     | Chloramphenicol          |
|     | (C)  | Zidovidine                               | (D)     | penicillin               |

| 73. | An e | example of DNA virus is                 |         |                           |
|-----|------|---|---------|---------------------------|
|     | (A)  | Influenza virus                         | (B)     | Rabies virus              |
|     | (C)  | Herpes virus                            | (D)     | Polio virus               |
| 74. | The  | following immunoglobulin involved in    | allerg  | y is                      |
|     | (A)  | Ig G                                    | (B)     | Ig E                      |
|     | (C)  | Ig M                                    | (D)     | Ig A                      |
| 75. | Wh   | ich of the following heptatitis viruses | can be  | transmitted parenterally? |
|     | (A)  | Hepatitis B                             | (B)     | Hepatitis C               |
|     | (C)  | Hepatitis D                             | (D)     | All of the above          |
| 76. | Mol  | luscum contagiosum is caused by         |         |                           |
|     | (A)  | Pox virus                               | (B)     | Herpes virus              |
|     | (C)  | Adeno virus                             | (D)     | Mump virus                |
| 77. | Mov  | rement of bacilli is facilitated by     |         |                           |
|     | (A)  | Pili                                    | (B)     | Flagella                  |
|     | (C)  | Capsule                                 | (D)     | Cytoplasm                 |
| 8.  | Ser  | odiagnostic tests in syphilis include   |         |                           |
|     | (A)  | VDRL                                    | (B)     | TPHA                      |
|     | (C)  | TPI                                     | (D)     | All of the above          |
| 79. | The  | common focal pyogenic infection of the  | e skin  | is caused by              |
|     | (A)  | Pneumococcus                            | (B)     | E.coli                    |
|     | (C)  | Staphylococcus                          | (D)     | H. influenza              |
| 80. | Ente | erobacteriaceae include all EXCEPT      |         |                           |
|     | (A)  | Salmonella                              | (B)     | Proteus                   |
|     | (C)  | Shigella                                | (D)     | Haemophilus               |
| 31. | The  | culture medium used for growing tube    | ercle b | acillus is                |
|     | (A)  | Nutrient agar                           | (B)     | Blood agar                |
|     | (C)  | L.J. Medium                             | (D)     | None of the above         |

| 82. | The vaccine used against tuberculosis is |   |        |                                 |  |  |  |  |
|-----|--|---|--------|---------------------------------|--|--|--|--|
|     | (A)                                      | DPT   | (B)    | BCG                             |  |  |  |  |
|     | (C)                                      | MMR   | (D)    | None of the above               |  |  |  |  |
| 83. | Puli                                     | monary tuberculosis is commonly cause       | d by   |                                 |  |  |  |  |
|     | (A)                                      | Mycobacterium tuberculosis                  | (B)    | Mycobacterium bivis             |  |  |  |  |
|     | (C)                                      | Atypical mycobacteria                       | (D)    | All of the above                |  |  |  |  |
| 84. | The                                      | selective medium for Vibrio cholera is      |        |                                 |  |  |  |  |
|     | (A)                                      | Mac Conkey agari                            | (B)    | Chocolate agar                  |  |  |  |  |
|     | (C)                                      | TCBS medium                                 | (D)    | DCA medium                      |  |  |  |  |
| 85. | Wid                                      | al test detects antibodies to the following | ng EX  | KCEPT                           |  |  |  |  |
|     | (A)                                      | 'Vi' antigen                                | (B)    | Salmonella typhi 'O' antigen    |  |  |  |  |
|     | (C)                                      | Salmonella typhi 'H' antigen                | (D)    | 'H' antigen of Salmonella A & B |  |  |  |  |
| 86. | Lan                                      | cefield grouping of Streptococci is base    | d on   |                                 |  |  |  |  |
|     | (A)                                      | 'M' Protein                                 | (B)    | 'C' Carbohydrate antigen        |  |  |  |  |
|     | (C)                                      | Capsular polysaccharide                     | (D)    | Teichoic acid                   |  |  |  |  |
| 87. | Dru                                      | mstick apearance is characteristic of       |        |                                 |  |  |  |  |
|     | (A)                                      | Clostridium welchii                         | (B)    | Clostridium tetani              |  |  |  |  |
|     | (C)                                      | Clostridium difficile                       | (D)    | Clostridium botulinum           |  |  |  |  |
| 88. | Rice                                     | water stools are characteristic of infec    | tion v | vith                            |  |  |  |  |
|     | (A)                                      | Escherichia coli                            | (B)    | Salmonella typhi                |  |  |  |  |
|     | (C)                                      | Vibrio cholera                              | (D)    | Shigella sonnei                 |  |  |  |  |
| 89. | Zoor                                     | notic disease among the following is        |        |                                 |  |  |  |  |
|     | (A)                                      | Diphtheria                                  | (B)    | Typhoid                         |  |  |  |  |
|     | (C)                                      | Leprosy                                     | (D)    | Leptospirosis                   |  |  |  |  |
| 90. | Spir                                     | ochaetes in wet mount are best visuali      | zed by | y                               |  |  |  |  |
|     | (A)                                      | Compound microscope                         | (B)    | Dissection microscope           |  |  |  |  |
|     | (C)                                      | Electron microscope                         | (D)    | Dark field microscope           |  |  |  |  |
| 91. | Anti                                     | ibiotic which acts on nucleic acid synthe   | esis o | f bacteria is                   |  |  |  |  |
|     | (A)                                      | Penicillins                                 | (B)    | Aminoglycosides                 |  |  |  |  |
|     | (C)                                      | Quinolones                                  | (D)    | Imidazoles                      |  |  |  |  |

| 92.  | Effic | cacy of a disinfectant is tested by the | followin   | ng methods EXCEPT      |
|------|-------|---|------------|------------------------|
|      | (A)   | Rideal Walker test                      | (B)        | Kelsey-Sykes test      |
|      | (C)   | Kirby Bauer test                        | (D)        | Chick Martin test      |
| 93.  | Pha   | ge mediated transfer of genes among     | g bacteria | a is called as         |
|      | (A)   | Conjugation                             | (B)        | Transduction           |
|      | (C)   | Transformation                          | (D)        | Transposition          |
| 94.  | Exa   | mple of a mechanical vector among t     | he follow  | ving is                |
|      | (A)   | Anopheles mosquito                      | (B)        | House fly              |
|      | (C)   | Rat flea                                | (D)        | Toxic tick             |
| 95,  | Cyst  | toscopes are sterilized by              |            |                        |
|      | (A)   | Boiling at 100°C                        | (B)        | Soap and water         |
|      | (C)   | Glutaraldehyde                          | (D)        | Iodine                 |
| 96.  | Anti  | ibiogram is done in                     |            |                        |
|      | (A)   | Blood agar                              | (B)        | Nutrient agar          |
|      | (C)   | Muller-Hinton agar                      | (D)        | MacConkey agar         |
| 97.  | The   | vaccines which are given soon after     | birth are  | e the following EXCEPT |
|      | (A)   | Oral polio vaccine                      | (B)        | Hepatitis B Vaccine    |
|      | (C)   | Tetanus toxoid                          | (D)        | BCG vaccine            |
| 98.  | Spor  | re bearing bacteria is                  |            |                        |
|      | (A)   | Staphylococcus                          | (B)        | Rickettsia             |
|      | (C)   | Spheroplasts                            | (D)        | Clostridium            |
| 99.  | Post  | operative wound infections are com      | monly ca   | aused by               |
|      | (A)   | Staphylococcus aureus                   | (B)        | Streptococcus pyogenes |
|      | (C)   | Pseudomonas aeruginosa                  | (D)        | Candida albicans       |
| 100. | Orga  | anisms are grown outside the body w     | vith the   | aid of                 |
|      | (A)   | Autoclave                               | (B)        | Hot air oven           |
|      | (C)   | Incubator                               | (D)        | Water bath             |