



DBG-201721

Seat No. _____

Second Year M. B. B. S. Examination

May - 2022

Microbiology : Paper - 2

Time : 3 Hours]

[Total Marks : 100

Instructions :

1. Figures to the right indicate full marks.
2. Draw figures where necessary.
3. Write section-I and section-II in separate answer sheets

SECTION - I

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| 1 | Long answer question :
A 50 year male presented with low grade fever and cough with expectoration since last one month. He also had history of low appetite and loss of weight. Chest X-ray revealed nodular infiltration in apical area of right upper lobe of lung. | 12 |
| | a) Diagnose possible disease. | 1 |
| | b) Write in detail about morphology and culture characteristic of possible pathogen. | 6 |
| | c) Write laboratory diagnosis of above condition. | 5 |
| 2 | Write short notes on: (any two) | 12 |
| | a) Laboratory diagnosis of Neisseria meningitidis. | |
| | b) Describe clinical manifestation and laboratory diagnosis of COVID-19 infection. | |
| | c) Describe clinical manifestation and laboratory diagnosis of pulmonary aspergillosis. | |
| 3 | Write short notes on : (any four) | 16 |
| | a) Laboratory diagnosis of gas gangrene. | |
| | b) Neurocysticercosis. | |
| | c) National guideline on rabies prophylaxis. | |
| | d) List the cutaneous parasitic infection. Write briefly on cutaneous larva migrans. | |
| | e) Laboratory diagnosis of Cryptococcal meningitis. | |

- 4 Write short answer : (any two) 4
- a) What motivation will you give to family members of COVID patient?
 - b) What precautions should a family member of a COVID patient take?
 - c) What instructions will you give to family members of an admitted patient?
- 5 Write short answer : (any six) 6
- a) Write 2 viruses causing skin and soft tissue infections.
 - b) Write 2 parasite entering body through penetration of skin.
 - c) Write 2 parasite found in lung.
 - d) Write 2 examples of Atypical mycobacteria.
 - e) Write 2 bacteria causing Non gonococcal urethritis.
 - f) Write 2 fungi causing Central nervous system infection.
 - g) Write 2 species of fungi causing Dermatophytosis.

SECTION - II

- 6 Long answer question : 12
- A 30-year old male present with purulent discharge and dysuria with history of unprotected sex with sex worker ten days before. Gram stain was prepared from discharge showing intracellular gram negative diplococci with plenty of polymorphs.
- a) What is the probable diagnosis of this infection? 2
 - b) Describe the pathogenesis and clinical features of this condition. 4
 - c) Write the details of laboratory diagnosis to confirm the suspected infection. 6
- 7 Write short notes on : (any two) 12
- a) Laboratory diagnosis of Syphilis.
 - b) Laboratory diagnosis of Schistosoma haematobium.
 - c) Describe about four categories of Biomedical waste management.

- 8 Write short notes on : (any four) 16
- a) Laboratory diagnosis of Pulmonary Anthrax
 - b) Clinical feature and Laboratory diagnosis of Trichomonas vaginalis.
 - c) Laboratory diagnosis of Hydatid cyst.
 - d) Bioterrorism
 - e) Laboratory diagnosis of Dengue.
- 9 Write short answer : (any two) 4
- a) What does it mean to be family member of a sick patient?
 - b) Who are members of Hospital Infection control committee?
 - c) Define zoonosis. Give two examples of zoonotic diseases.
- 10 Write short answer : (any six) 6
- a) Write 2 bacteria causing Urinary tract infection.
 - b) Write 2 viruses causing congenital infections.
 - c) Write 2 viruses responsible for pandemic.
 - d) Write 2 parasite transmitted by mosquito.
 - e) Write 2 parasite transmitted by sexual route.
 - f) Write 2 organisms responsible for Malignancy.
 - g) Write 2 examples of laboratory-acquired infections.
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