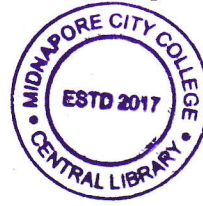


The West Bengal University of Health Sciences
B.Sc. in Medical Microbiology 3rd Semester May - June, 2023

Examination
Subject : Mycology



Time : 2 hrs.

Full Marks : 50

Attempt all questions

1. Tick the correct answer : 10 x 1
- a) Which one is an example of 'dimorphic mold'?
 i) *Aspergillus niger*. ii) *Cryptococcus neoformans*.
 iii) *Candida albicans*. iv) *Ajellomyces dermatitidis*.
- b) Provide an example of 'necrotrophic' fungus :
 i) *Candida utilis*. ii) *Caulobacter crescentus*.
 iii) *Malassezia furfur*. iv) *Pythium ultimum*.
- c) Histoplasmosis in a patient is initiated with inhalation of :
 i) Blastospores. ii) Aplanospores. iii) Ascospores. iv) Conidiospores.
- d) Macrophages are generally infected by which fungus?
 i) *Histoplasma capsulatum*. ii) *Aspergillus niger*.
 iii) *Candida immitis*. iv) *Blastomyces dermatitidis*.
- e) 'Caseous necrosis' is usually seen in which mycotic infection?
 i) Tuberculosis. ii) Brucellosis. iii) Coccidioidomycosis. iv) Candidiasis.
- f) 'Bat guano miners' are usually related with :
 i) Coccidioidomycosis. ii) Aspergillosis. iii) Histoplasmosis. iv) Blastomycosis.
- g) In 'aspergilloma' which one is formed?
 i) Fungal curtain. ii) Fungal vase. iii) Fungal ball. iv) Mycelia.
- h) Type I hypersensitivity is related with :
 i) Piedra. ii) Aspergillosis. iii) Histoplasmosis. iv) Blastomycosis.
- i) 'Tinea Nigra' is caused by :
 i) *Aspergillus fumigatus*. ii) *Hortaea werneckii*.
 iii) *Malassezia furfur*. iv) *Trichosporon beigeli*.
- j) 'White piedra' is caused by :
 i) *Aspergillus niger*. ii) *Trichophyton schoenleinii*.
 iii) *Trichosporon beigeli*. iv) *Microsporum canis*.
2. Answer **any four** of the following questions : 4 x 2
- a) Write down any two respiratory fungal diseases and the respective fungal pathogens.
 b) What are superficial mycoses?
 c) What is the causative agent and symptoms of Tinea Nigra?
 d) What is the function of wood lamp?
 e) What is Y-M shift?
 f) What are signs and symptoms of keratomycosis?
3. Answer **any four** of the following questions : 4 x 4
- a) Tinea versicolor. b) Mycetoma.
 c) Allergic bronchopulmonary aspergillosis. d) Cutaneous candidiasis.
 e) Clinical manifestation of mucormycosis. f) Pseudoallescheria.
4. Answer **any two** of the following questions : 2 x 8
- a) What is the lab diagnosis of fungal diseases? What do you mean by opportunistic fungal infections? 6+2
- b) Briefly describe fungal dermatophytes with prime clinical features. Write down the different specimens collected for dermatophytes. 6+2
- c) Discuss the pathogenesis of cryptococcosis. Write down the different clinical features of candidiasis. 6+2