

VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)

B.OPTOMETRY DEGREE EXAMINATION – March 2019
Second Year

MICROBIOLOGY AND PATHOLOGY

Time: Three hours

Maximum: 80 marks

Use Separate answer books for Part A and Part B

PART – A - MICROBIOLOGY

Time: One and half an hour

Maximum: 40 marks

SECTION – A

I. Choose the correct answer for the following:

(5 x 1 = 5)

1. Actinomyces is
 - a) Gram positive bacteria
 - b) Gram negative
 - c) Fungus
 - d) A yeast like form

2. Hepatitis B is caused by
 - a) RNA virus
 - b) DNA virus
 - c) Mycoplasma
 - d) Rickettsia

3. Glass vessels and syringes are best sterilized by
 - a) Hot air oven
 - b) Autoclaving
 - c) Simple boiling
 - d) Irradiation

4. Poliovirus in OPV results in the production of
 - a) Ig G
 - b) Ig A
 - c) Ig M
 - d) Ig D

5. Candida albicans causes all of the followings except.
 - a) Endocarditis
 - b) Meningitis
 - c) Myceloma
 - d) Oral thrush

(p.t.o.)

II. Write True or False:

(5 x 1 = 5)

1. Human immune deficiency virus is a retro virus.
2. Herpes simplex virus is a double standard RNA virus.
3. T. Verrucosum is spread from animals to man.
4. VDRL is positive one week after appearance of chancre.
5. Botulinum toxin acts on parasympathetic system.

III. Fill in the blanks:

(5 x 1 = 5)

1. Visceral larva migrans of children caused by_____.
2. Trophozoites and cysts are the part of _____.
3. Acute hemorrhagic conjunctivitis is caused by_____.
4. Mantoux test is used to find out_____.
5. If orbit infected with multiple pathogen is known as_____.

SECTION – B

II. Write short notes on any THREE of the following:

(3 x 5 = 15)

1. Illustrate the ocular lesions of staphylococcus and Chlamydia.
2. Explain the morphology and pathogenesis of Candida.
3. Discuss in detail on dimorphic fungi.
4. Elaborate the pathogenesis and ocular lesions of para influenza virus.
5. Write short notes on life cycle and pathogenesis of Taenia solium.

SECTION – C

III. Write an essay on any ONE of the following:

(1 x 10 = 10)

1. Write an essay on physical and chemical methods of sterilization.
2. Write the protocol of gram's and Acid- fast staining.

(p.t.o.)

PART – B – PATHOLOGY

Time: One and half an hour

Maximum: 40 marks

SECTION - A

I. Multiple Choice questions:

(5 x 1 = 5)

1. Which of the following enzyme is involved in inflammatory reaction?
 - a. Amylase
 - b. Libase
 - c. Urease
 - d. Cyclo oxygenase

2. Phenylketonuria is due to the defect of
 - a. Nutrition
 - b. Gene
 - c. Kidney
 - d. Liver.

3. If the accumulation of dust with sputum in lungs is known as
 - a. Edema
 - b. Thrombosis
 - c. Embolism
 - d. infarction

4. Primary retinal detachment is seen in
 - a. High myopia
 - b. Diabetes
 - c. Malignant melanoma
 - d. All the above

5. Most common benign tumor of the orbit is
 - a. Optic nerve glioma
 - b. Meningioma
 - c. Mixed tumor
 - d. Haemangioma

II. State whether the following statements are TRUE or FALSE: (5 x 1 = 5)

1. Acit- fast staining is used to detect tuberculosis.
2. Collagen plays an important in healing of corneal damages.
3. Epinephrine increases aqueous production and decreases outflow facility.
4. Zonular cataract is the part of traumatic cataract.
5. Ocular lesions of leprosy include fascicular keratitis.

III. Fill in the blanks:

(5 x 1 = 5)

1. Syphilis is caused by _____.
2. Atherosclerosis and high blood pressure damage the brain cells leading to _____.
3. Histoplasma capsulatum is the examples for type of _____ fungi.
4. The patient with acne rosacea and seborrhoeic dermatitis is prone to _____.
5. Specific changes produced by the alloy of copper in the eye is _____.

SECTION - B

IV. Answer any THREE of the following:

(3 x 5 = 15)

1. In what way the Chlamydiae is differing from viruses? Explain the ocular lesions caused by the chlamydiae.
2. Explain the types and clinical characteristics of diabetic retinopathy.
3. Write briefly on the bacterial corneal ulcer.
4. What are the secondary glaucoma? Explain any two.

SECTION - C

V. Discuss in detail on any ONE of the following questions:

(1 x 10 = 10)

1. Write the types and clinical features of retinoblastoma.
2. Explain the ocular pathophysiology of fungi.

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