Sl.No. M21112 Course Code: 2740205/27417205

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

B. OPTOMETRY DEGREE EXAMINATION – September 2021 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: $(5 \times 1 = 5)$
 - 1. Chickenpox caused by
 - (a) Flavivirus
 - (b) Coronavirus
 - (c) Varicella zoster virus
 - (d) Zikka virus
 - 2. Stain used for mycobacterium tuberculosis
 - (a) Hematoxyllin and eosin stain
 - (b) Silver stain
 - (c) Ziehl-neelsen stain
 - (d) Pass stain
 - 3.Immunoglobulin present in secretions
 - (a) Ig E
 - (b) Ig D
 - (c) Ig A
 - (d) Ig M
 - 4. Sterilization method in Operation theatres
 - (a) Irradiation
 - (b) Hot air oven
 - (c) Cider solution
 - (d) Fumigation
 - 5. Satellitism is caused by
 - (a) Stapylococcus
 - (b) Pneumococcus
 - (c) Tuberculosis
 - (d) Hemophillus

II. Write True or False:

 $(5 \times 1 = 5)$

- 1. Mycobacterium avium complex affects HIV infected people.
- 2. Corona virus is contagious.
- 3. IgG is diagnostic tool for chronic infection.
- 4. Mites are vector for Rickttsii.
- 5. Hepatitis A is sexually transmitted.

III. Fill in the blanks:

 $(5 \times 1 = 5)$

- 1. Tuberculosis is _____ type of hypersensitivity.
- 2. Confirmatory test for HIV infection _____
- 3. BCG vaccine is used to prevent _____
- 4.Endemic typus caused by _____
- **5.**Parasites found _____ in eye

SECTION - B

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

 $(3 \times 5 = 15)$

- 1. Write about Immunoglobulin M and G.
- 2. Briefly elaborate about corona virus.
- 3. Discuss about types of sterilization method used in hospitals.
- 4. What is growth curve? Explain stages is growth curve.
- 5. Expand BCG. Write about pathogenesis and clinical features of mycobacterium tuberculosis.

SECTION - C

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

 $(1 \times 10 = 10)$

- 1. What is flavivirus? Write briefly about dengue fever. Write about laboratory investigation in dengue fever?
- 2. Write the morphology, pathogenesis, and diagnosis of Mycobacterium tuberculosis and Mycobacterium lepra.

PART - B - PATHOLOGY

Time: One and half an hour Maximum: 40 marks

SECTION - A

I. Multiple Choice questions:

 $(5 \times 1 = 5)$

- 1. Thalessemia is a
 - a. bleeding disorder
 - b. nutritional disorder
 - c. hemoglobinopathy
 - d. blastic disorder
- 2. Abscess is a collection of
 - a. lymphocytes
 - b. eosinophils
 - c. neutrophils
 - d. basophils
- 3. Acid present in M.Tuberculosis
 - a. phenol
 - b. mycolic
 - c. acetic
 - d. formic
- 4. Rubella causes
 - a. congenital cataract
 - b. heart disease
 - c. sensorineural deafness
 - d. all the above
- 5. Anaerobic bacteria
 - a. staphylococci
 - b. streptococci
 - c. mycobacterium
 - d. clostridium
- II. State whether the following statements are **TRUE** or **FALSE**: $(5 \times 1 = 5)$
 - 1. Retinoblastoma is adulthood tumor.
 - 2. Rubella virus occurs transplacentally.
 - 3. Neutrophil plays a key role in chronic inflammation.
 - 4. Metastasis is present in benign neoplasms.
 - 5. Anaphylaxis is caused by lymphocytes.

III. Fill in the blanks:	$(5 \times 1 = 5)$
 Occupational disease acquired from sugarcane fibres. Sunflower cataract caused by Decreased lymphocyte count is known as induced catract is preventable blind countries . Inflammatory mediator involved in fever 	dness in developing
SECTION - B	
IV. Answer any THREE of the following:	$(3 \times 5 = 15)$
 Write about melanoma? What are the precursor les What is inflammation? Types of inflammation? What are the tumors of eye? Write briefly about re Write about optic neuritis. 	
SECTION - C	
V. Discuss in detail on any ONE of the following question	ns: $(1 \times 10 = 10)$
 What is inflammation? Write differences between inflammation. Write brief note on tuberculosis. Write about various disorders of lens and explain in 	

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