

SK-234

Total No. of Pages: 3

Seat No. 1049

M.Sc. (Part - I) (Semester - II) (CBCS - R) Examination, April 2017 MICROBIOLOGY

MIC-203: Medical Microbiology (Paper - VII)

Sub. Code: 61406

Day and Date: Wednesday, 19-04-2017

Total Marks: 80

Time: 11.00 a.m. to 2.00 p.m.

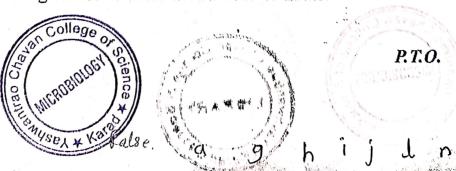
Instructions:

- 1) Total of five questions are to be answered from the entire paper.
- 2) Question 1 is compulsory.
- 3) Attempt any two questions from each section. Section I (Q.2 to 4) and Section II (Q. 5 to 7).
- 4) Answers to all the questions are to be written in the same answer book.
- 5) Supplements will not be provided.
- 6) Figures to the right indicate full marks.

Q1) State whether following statements are true or false:

[16]

- a) Ataxia-telangiectasia is an abnormality due to immuno deficiency of T cells only.
- b) Congenital thymic aplassia is a not an inheritable illness.
- c) In Bordet-Gengou glycerin potato blood agar used for Bordella spp,. blood is used to make the medium nutritionally rich.
- d) Invasin is an adhesin that can mediate bacterial invasion into host eukaryotic cells.
- e) Histoplasms capsulatum is dimorphic fungus growing as yeasts on culture media and as septate mycelium in animal tissues.
- f) Mycetoma is a localised granulomatous infection of subvutaneous tissues which most often affetcs foot.
- g) Mycobacterium tuberculosis cells grow faster on Lowensten and Jenson's medium showing visible colonies within 24 to 48 hours.



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- h) Man suffering from Leptospira conicola infections show menin symptoms.
- i) In filariasis mosquito is a definitive host while man is an intermediate host.
- j) Viral encephalitis is illness of liver.
- k) Neonatal herpes disease is caused by herpes virue type II.
- 1) For an adult individual, usual dose of lovastatin is 20 g, ones in a day.
- m) Systemic lupus erythematosus is pridominant in females of child bearing age.
- n) Q fever in human is acquired by inhaling the dust contaminated by rickettsia derived from animals but not by ticks.
- o) C1q complement deficiency disorder can be due to deficiency of C-1 inactivator.
- p) Fish shaped mouth is a characteristic feature of ataxia.

SECTION - I

Q2) a) Explain various attributes of pathogens and the mechanism of causing disease in host. [16]

OR

- b) Describe in brief about causative agent and its characteristics, lab diagnosis, transmission, prevention and control of disease caused by Bordetella pertussis.
- Q3) Describe in Brief (ANY TWO):

·[16]

- a) Role of sporulation and capsulation in Survival of pathogenes.
- b) Morphological, cultural and biochemical characters of Rickettsia burnetii.
- c) Systemic Mycoses.







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SK-234 Q4) Write short notes on (ANY FOUR): [16] Role of coagulase enzyme in the virulance. Collection and Preliminary processing of clinical samples. b) c) Transmission of leptospirosis. d) Preliminary processing of clinical specimens. Clinical features of Pityriasis. e) Pathogenesis of Subcutaneous Mycoses. f) **SECTION - II** Describe in brief atopic diseases. **Q5**) a) [16] OR What are auto immune diseases? Explain the mechanisms of inductions b) of autoimmunity. [16]Q6) Describe in Brief (ANY TWO): Ataxia telangiectasia. a) Conginital thymic aplassia. b) X-linked hypogammaglobulinemia. .c) Q7) Write short notes on (ANY FOUR): [16] Filariasis. a) Role of Lovastatin in health care. b) GVH disease, c) Systemic autoimmune disease. d) Complement deficiency disorder. e) Prevention and control of influenza caused by H1N1 virus. f) **C380C380** raed - 2017

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