

1- Eugonic growth on Lowenstein-Jensen medium is produced by :-

- A. M bovis
- B. Mycobacterium tuberculosis
- C. Both (a) and (b)
- D. None of the above

Answer:- B

2- Humans become infected with Mycobacterium tuberculosis most frequently by

- A. inhalation
- B. ingestion
- C. contact
- D. inoculation

Answer :- A

3- What is the interferon-gamma release assay?

- a) The antigen detection test for the Mycobacterium spp
- b) The DNA detection test in Mycobacterium spp
- c) The test used as an alternative tuberculin skin test in latent tuberculosis
- d) The test used as an alternative tuberculin skin test in the active tuberculosis

Answer :- A

4-The initial therapy of tuberculosis treatment regimen includes which of the following antibiotics/ drugs?

- a) Streptomycin and rifampin
- b) Isoniazid, streptomycin, and ethambutol
- c) Rifampin, isoniazid, and ciprofloxacin
- d) Isoniazid, rifampin, pyrazinamide, and ethambutol

Answer :- D

5- Other than Mycobacterium tuberculosis which of the following bacteria causes tuberculosis infection in animals and can be transmitted to humans by consumption of milk and other animal products?

- a) Mycobacterium ulcerans
- b) Mycobacterium leprae
- c) Mycobacterium bovis
- d) Mycobacterium abscessus

Answer :- c

6- Which of the following first-line antibiotics are usually resistant to Mycobacterium tuberculosis?

- a) Isoniazid and ciprofloxacin
- b) Isoniazid and Rifampin
- c) Rifampin and ciprofloxacin
- d) Rifampin and streptomycin

Answer :- B

7- Which of the following statement is true about the tuberculin test and purified protein derivative (PPD)?

- a) The presence of intradermal skin induration is observed in 6 to 8 hours after being applied
- b) The redness of skin or erythema is also measured while reading the tuberculin test
- c) A positive tuberculin test means that a person was infected with *M. tuberculosis* in the past and continues to carry the viable organism
- d) A positive PPD test indicates that a person can never be infected with *M. tuberculosis*

Answer :- c

8- Which of the following pathogen has the shorter incubation period and is a nontuberculous mycobacterium?

- a) *Mycobacterium ulcerans*
- b) *Mycobacterium avium* complex
- c) *Mycobacterium leprae*
- d) *Mycobacterium fortuitum*

Answers :- D

9- All of the following are the symptoms of pulmonary tuberculosis, EXCEPT?

- a) Weakness and fatigue
- b) Decreased body temperature
- c) Weight loss
- d) Severe prolonged cough with sputum or blood

Answer :- B

10- Which of the following bacteria causes lung infection and is the most common non-tuberculous mycobacterial infection associated with AIDS patients?

- a) *Mycobacterium avium* complex
- b) *Mycobacterium leprae*
- c) *Mycobacterium gordonae*
- d) *Mycobacterium gastri*

Answer :- A

11- A 50 years old patient who had his kidney transplant 6 months ago visited the hospital with pneumonia like symptoms for the last 2 months. The chest x-ray examination revealed a typical feature of tuberculosis infection. A photochromogenic (orange pigment when exposed to UV light) acid-fast rod bacterium was isolated from the sputum sample. The identified bacteria is:

- a) *Mycobacterium avium*
- b) *Mycobacterium tuberculosis*
- c) *Mycobacterium kansasii*
- d) *Mycobacterium leprae*

Answer :- c

12- All of the given are the distinguishing characteristics of *Mycobacterium leprae*, EXCEPT:

- a) It is an acid-fast bacillus
- b) It cannot be isolated in-vitro culture method
- c) It is a human and as well as animal pathogen
- d) It can be isolated by only in-vivo culture method

Answer :- c