

# Review Exam - Review Exam Microbiology & Immunology\_Class Test

## \_Online\_Foundation\_1

Total Mark: 100

Time: 90 Min

<p>1. A 25-year-old male presented with a history of confusion and fever that had worsened gradually over the preceding four days. On examination, she was drowsy and had mild neck stiffness. Neurological examination revealed an extensor left plantar response. A CT scan of his brain showed an area of low attenuation in the right temporal region. What is the most likely organism responsible for the condition?</p> <p>A) Cerebral toxoplasmosis B) Herpes simplex encephalitis C) Listerial meningoencephalitis D) Pneumococcal meningitis E) Pyogenic brain abscess</p> <p><b>Answer:</b> B <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th, P-283)</p>	<p>2. After a party with friends in a restaurant, you developed non-bloody diarrhea. Your meal included reheated fried rice. Which is the culprit organism ?</p> <p>A) S.aureus B) E.coli C) V.cholerae D) B.cereus E) Shigella</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th / P-133]</p>
<p>3. After a solid organ transplantation, the graft was immediately rejected. What may be the underlying cause?</p> <p>A) T cell mediated reaction B) Atherosclerosis C) HLA mismatch D) Preformed anti-ABO antibodies E) Use of immunosuppressive drugs</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th, P-532)</p>	<p>4. All are true regarding <i>Cryptococcus neoformans</i> except</p> <p>A) Is an oval, budding yeast B) Has polysaccharide capsule C) Is dimorphic D) Causes infection through inhalation E) Is associated with infection in immunocompromised person</p> <p><b>Answer:</b> C <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th, P-404)</p>
<p>5. All are true regarding lepromatous leprosy except -</p> <p>A) Many lesions B) Marked tissue destruction C) High transmissibility D) High level of CMI E) Negative lepromin skin test</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th / P-184/T-21.5]</p>	<p>6. All of the following skin conditions are caused by viruses except-</p> <p>A) Slapped cheeks syndrome B) Petechial haemorrhage C) Shingles D) Condylomata lata E) Hand, foot and mouth disease</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th/T-XII-11/P-710]</p>
<p>7. All of the following skin lesions are caused by <i>Staph.aureus</i> except-</p> <p>A) Scalded skin syndrome B) Cellulitis C) Necrotizing fascitis D) Folliculitis E) Erysipelas</p> <p><b>Answer:</b> C <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th / P-107,637,T-77.1)]</p>	<p>8. Among different immunosuppressives used in transplant, cyclosporine is one of them. Which category does it belong?</p> <p>A) Corticosteroids B) Cell depleting antibodies C) Calcineurin inhibitors D) DNA synthesis inhibitors E) Signaling blockade</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th, P-535, T-62.2)</p>

<p><b>9. Blindness may be associated with-</b></p> <p>A) Pseudomonas aeruginosa B) Legionella pneumophila C) Chlamydia trachomatis D) S. pneumoniae E) H. Influenza</p> <p><b>Answer:</b> C <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th /P-203]</p>	<p><b>10. Delayed hypersensitivity reaction includes all of the following except-</b></p> <p>A) Drug rash B) Contact dermatitis C) Hypersensitivity pneumonitis D) Erythema multiforme E) Tuberculin skin test reaction</p> <p><b>Answer:</b> C <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th/553, tab-65.2)</p>
<p><b>11. Drug acting on 50S ribosomal protein synthesis</b></p> <p>A) Flucloxacillin B) Tetracyclin C) Paromomycin D) Linezolid E) Moxifloxacin</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th /P-69/T-10.2]</p>	<p><b>12. Example of T-cell mediated autoimmune disease-</b></p> <p>A) Celiac disease B) Pernicious anemia C) Rheumatoid arthritis D) Pemphigus E) Ulcerative colitis</p> <p><b>Answer:</b> A <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th,P-563,T-66.1)</p>
<p><b>13. Following is not true of Nipah virus</b></p> <p>A) Is a member of paramyxovirus family B) Is transmitted by contaminated date palm sap (date juice) C) Has low mortality rate D) Occurs through man to man transmission E) Vaccine is not available</p> <p><b>Answer:</b> C <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th/ P-381]</p>	<p><b>14. Fungus causing erythema nodosum</b></p> <p>A) Candida albicans B) Histoplasma capsulatum C) Cryptococcus neoformans D) Blastomyces dermatitidis E) Paracoccidioides brasiliensis</p> <p><b>Answer:</b> B <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th,P-397)</p>
<p><b>15. Human papilloma virus is most commonly associated with</b></p> <p>A) Anogenital cancers B) Breast cancers C) Seminoma D) Condylomata lata E) Prostate cancer</p> <p><b>Answer:</b> A <b>Discussion:</b> <b>Reference:</b> Ref: Lange 15th /P-295]</p>	<p><b>16. Jarisch-Herxheimer reaction can occur due to penicillin in several condition except</b></p> <p>A) Secondary syphilis B) Leprosy C) Lyme disease D) Leptospirosis E) Relapsing fever</p> <p><b>Answer:</b> B <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th / P-195]</p>
<p><b>17. Medically important dimorphic fungi are</b></p> <p>A) Mucor B) Aspergillus C) Sporothrix schenckii D) Candida albicans E) Cryptococcus neoformans</p> <p><b>Answer:</b> C <b>Discussion:</b> <b>Reference:</b> [Ref. Lange 15th P-394+ Davidson/23rd /P-300 ]</p>	<p><b>18. Parasite that transmits through placenta</b></p> <p>A) Plasmodium falciparum B) Toxoplasma gondii C) Wuchereria bancrofti D) Trypanosoma cruzi E) Leishmania donovani</p> <p><b>Answer:</b> B <b>Discussion:</b> <b>Reference:</b> [Ref: Lange/15th /P-34/T-7.2]</p>

<p><b>19. Presence of intranuclear inclusion bodies may be associated with following viruses</b></p> <p>A) Chlamydia B) Rotavirus C) Coronavirus D) Rabies virus E) Cytomegalovirus</p> <p><b>Answer:</b> E <b>Discussion:</b> <b>Reference:</b> (Micro lecture sheet, p-154)</p>	<p><b>20. Promastigote form of L. donovani found in</b></p> <p>A) Bone marrow B) Spleen C) Staining D) Sand fly E) Lymph node</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15e,433p)</p>
<p><b>21. Regarding B cell, which one is true?</b></p> <p>A) Maturation in thymus B) IgM on surface C) Regulator of antibody synthesis D) Effector of CMI E) CD3 proteins on surface</p> <p><b>Answer:</b> B <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th, P-495,T-59.1)</p>	<p><b>22. Regarding Rabies virus following one is not true</b></p> <p>A) member of rhabdo virus family B) Bullet shaped C) Moves by axonal transport to the central nervous system D) Post-exposure immunization available. E) Dumb form occurs in 80%se</p> <p><b>Answer:</b> E <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th /P-317]</p>
<p><b>23. Regarding skin lesion caused by virus, which of the following relation is not true?</b></p> <p>A) Varicella Zoster Virus ---- vesicle B) Herpes Simplex virus ---- vesicle C) Cytomegalovirus ----- nodule D) Smallpox ----- pustule E) Human papillomavirus ----- papule</p> <p><b>Answer:</b> C <b>Discussion:</b> <b>Reference:</b> [Ref: Lange/15th /P-280/T-37.1]</p>	<p><b>24. Regarding spore the incorrect statement is</b></p> <p>A) highly resistant structures B) forms outside the cell C) dipicolinic acid is the main component D) no metabolic activity E) cannot be destroyed by boiling</p> <p><b>Answer:</b> B <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th / P-11]</p>
<p><b>25. Specific host defense against viral infections include</b></p> <p>A) Interferons B) Circumcision C) NK cell D) Herd immunity E) Inflammatory response</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> (Lange 15th, P-254,255)</p>	<p><b>26. Splenectomized patients are more prone to develop infection with following organism-</b></p> <p>A) S. pneumoniae B) N gonorrhoea C) Corynebacterium diphtheriae D) Staph aureus E) Strep viridans</p> <p><b>Answer:</b> A <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th /P-121]</p>

<p><b>27. surgical gowns are sterilized by-</b></p> <p>A) Tyndallization B) Autoclave C) Ethelene Oxide D) Dry heat E) Evaporation</p> <p><b>Answer:</b> B <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th /P-98/T-13.2]</p>	<p><b>28. The treatment of choice of all rickettsial diseases is</b></p> <p>A) Penicillin B) Cephalosporins C) Doxycycline D) Metronidazole E) Ciprofloxacin</p> <p><b>Answer:</b> C <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th / P-207]</p>
<p><b>29. Virus transmitted by breast feeding -</b></p> <p>A) Zika B) Rabies virus C) HBV D) Rotavirus E) Human T-cell lymphotropic virus</p> <p><b>Answer:</b> E <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15e,245p,T-32-2)</p>	<p><b>30. Wall-less organism causing haemolytic anaemia-</b></p> <p>A) T.pallidum B) M.pnumoniae C) Shigella D) Borrelia E) Chlamydia</p> <p><b>Answer:</b> B <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th /P-190]</p>
<p><b>31. Which anti-fungal drug acts by inhibiting ergosterol synthesis?</b></p> <p>A) Amphotericin B B) Flucytosine C) Caspofungin D) Terbinafine Griseofulvin D [Ref: Lange 15th/ P-386/T-47.3] E) Griseofulvin</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th/ P-386/T-47.3]</p>	<p><b>32. Which of the following immunoglobulins is found in secretions?</b></p> <p>A) IgG B) IgM C) IgA D) IgE E) IgD</p> <p><b>Answer:</b> C <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th,P-524,T-61.2)</p>
<p><b>33. Which of the following parasite usually infect young RBC?</b></p> <p>A) T. gondii B) P. ovale C) P. falciparum D) P. malariae E) L. donovani</p> <p><b>Answer:</b> B <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15e,422p)</p>	<p><b>34. Which one is a non-spore forming Gram negative cocci?</b></p> <p>A) Bacteroids B) Fusobacterium C) Veillonella D) Peptococcus E) Clostridium</p> <p><b>Answer:</b> C <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th / P-105/T-14.3]</p>

<p><b>35. which one is not a tissue nematode?</b></p> <p>A) onchocerca B) Dracunculus C) Toxocara D) Ancylostoma E) Loa loa</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th,P-457,T-56.1)</p>	<p><b>36. Which one is not required for activation of complement by Alternative pathway?</b></p> <p>A) Endotoxin B) Fungal cell wall C) Factor M D) Viral envelope E) Factor B</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th ,P-538)</p>
<p><b>37. Which one of the following is an oncogenic virus?</b></p> <p>A) Hepatitis A B) Human papilloma virus 6 (HPV 6) C) Human papilloma virus 11 (HPV 11) D) Human papilloma virus 16 (HPV 16) E) Varicella zoster virus (VZV)</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> Ref: Lange 15th,P- 295,355,T-43.7)</p>	<p><b>38. You are dealing with a middle-aged lady presented with abdominal pain. She gives history of retained intrauterine device for a long time. Laboratory report showed branching Gram positive rods in the presence of sulfur granules. Which is the likely organism?</b></p> <p>A) Cl. Perfringes B) B. anthracis C) Actinomyces israelii D) Nocardia E) Listeria</p> <p><b>Answer:</b> C <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th / P-187]</p>
<p><b>39. A 31 year old woman with a three year history of ulcerative colitis is started on azathioprine. Which one of the following vaccines must be avoided whilst she is on this treatment?</b></p> <p>A) Tetanus B) Diphtheria C) Pertussis D) Yellow fever E) Rabies</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th, P-273,T-36.2)</p>	<p><b>40. All of the followings are complications of measles except</b></p> <p>A) Otitis media B) Myocarditis C) Encephalitis D) Pneumonia E) Diarrhea</p> <p><b>Answer:</b> B <b>Discussion:</b> <b>Reference:</b> (Ref: Lange 15th,P- 312)</p>
<p><b>41. All RNA viruses replicate in the cytoplasm except the following-</b></p> <p>A) Hepatitis B virus B) Pox virus C) Vaccinia virus D) Hepatitis D virus E) Herpes simplex virus</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> (Ref: Lange /15th/232)</p>	<p><b>42. Capsule of haemophilus influenzae has all the following features except-</b></p> <p>A) Enhances virulence B) Defines serologic groups C) Detected in spinal fluid D) Protein in nature E) is the antigen in vaccine</p> <p><b>Answer:</b> D <b>Discussion:</b> <b>Reference:</b> [Ref: Lange 15th / P-126/T-16.3]</p>

<p><b>43. Congenital deficiency of phagocytes leading to-</b></p> <p>A) Severe combined immunodeficiency disease  B) DiGeorge's syndrome  C) Chronic granulomatous disease  D) Chronic mucocutaneous candidiasis  E) Contact dermatitis</p> <p><b>Answer:</b> D  <b>Discussion:</b>  <b>Reference:</b> (Ref: Lange 15th,P-574,T-68.1)</p>	<p><b>44. Epstein Barr virus infection causes</b></p> <p>A) Latency in sacral ganglia  B) mortalization of B lymphocytes  C) Kaposi's sarcoma  D) Condylomataacuminata  E) Heterophil antibody production</p> <p><b>Answer:</b> E  <b>Discussion:</b>  <b>Reference:</b> [Ref: Lange 15th /P-288,289]</p>
<p><b>45. Following viruse has segmented genome</b></p> <p>A) Rota virus  B) Arbo virus  C) HIV  D) Hepatitis E virus  E) Paramyxovirus</p> <p><b>Answer:</b> A  <b>Discussion:</b>  <b>Reference:</b> [Ref: Lange 15th P-239, tab( 31.2) ]</p>	<p><b>46. Most common organism causing meningitis in teenagers?</b></p> <p>A) S.pneumoniae  B) Pseudomonas  C) N meningitidis  D) H influenza  E) Listeria monocytogens</p> <p><b>Answer:</b> C  <b>Discussion:</b>  <b>Reference:</b> [Ref: Lange 15th / P-602]</p>
<p><b>47. Newly approved drug used for MDR tuberculosis-</b></p> <p>A) Meropenem  B) Streptomycin  C) Amikacin  D) Bedaquiline  E) Fidaxomicin</p> <p><b>Answer:</b> B  <b>Discussion:</b>  <b>Reference:</b> [Ref: Lange 15th / P-182]</p>	<p><b>48. Regarding coronavirus,all are true except</b></p> <p>A) It is an enveloped RNA virus  B) It has hemagglutinin in its surface  C) Has an incubation period of 02 to 10 days  D) Chest X-ray reveals interstitial 'ground-glass' infiltrates  E) Reinfection never occurs</p> <p><b>Answer:</b> E  <b>Discussion:</b>  <b>Reference:</b> (Ref: Lange: 15th/306,307)</p>
<p><b>49. Regarding endotoxin produced by bacteria</b></p> <p>A) Secreted only from Gram positive bacteria  B) Lipopolysaccharide in nature  C) Vaccine available  D) Highly toxic  E) Strong antigenicity</p> <p><b>Answer:</b> A  <b>Discussion:</b>  <b>Reference:</b> [Ref: Lange 15th /P-39/T-7.9]</p>	<p><b>50. In hyperthyroidism the thyroid function test</b></p> <p>A) High TSH  B) more Free T3&amp; T4  C) Total T3&amp; T4 low  D) Only high T4  E) Only high T3</p> <p><b>Answer:</b> B  <b>Discussion:</b> Exp: Suppressed serum TSH  <b>Reference:</b> A raised T3&amp; T4</p>