



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

تجميع أسئلة الامتحان النهائي لمساق:

الجهانز التنفسي

فريق شفاء ©



Anatomy:

1) Bony part of nasal septum :

vomer

2) The muscle that relax the vocal cords :

thyroarytenoid

3) All true about upper respiratory tract except :

protection by macrophages

4) A doctor is about to do a surgical removal of the Pharyngeal tonsils (adenoids) for a patient. Where should he look for it?

the roof of the nasopharynx

5) Nerve supply in the region above vocal cord:

Internal laryngeal nerve

6) Vocal cord is related to:

arytenoid and thyroid cartilage

7) Region that has columnar epithelium with muscle but without cartilage:

bronchioles

8) In the inferior region of lung dissociate right and left bronchi :

Carina

9) Which is correct about Trachea?

A. it has 16-20 C shaped cartilage rings ✓

B. it is 18 cm long and it is covered by complete cartilage rings

C. it is empty anteriorly because of the presence of the Esophagus

Healing شفاء

10) Not correct about pulmonary segmentt:

A.Venules found between alveoli

B.Arterioles intraseptal

C.each segment supplied by secondary bronchi ✓

D.It is pyramidal in shape its base toward the lung surface

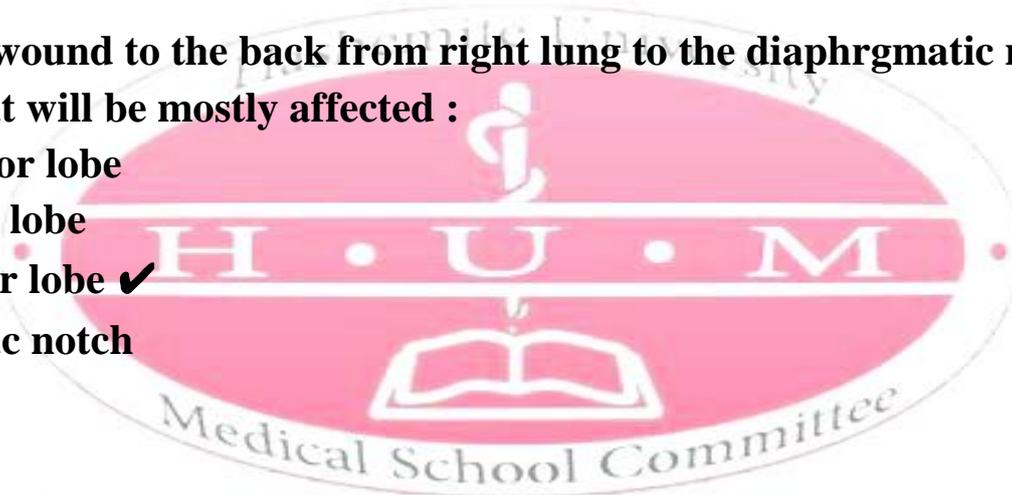
11) Stab wound to the back from right lung to the diaphragmatic muscle , part that will be mostly affected :

A.Superior lobe

B.Medial lobe

C.Inferior lobe ✓

D.Cardiac notch



Biochemistry:

1) In methemoglobinemia, it is developed when the percentage of methemoglobin in the blood exceeds?

10%

2) During exercise the amount of oxygen unloaded will become? 62%

3) Acid base balance achieved by:

Bicarbonate buffer , phosphate buffer , proteins, respiratory , renal

4) If we want to increase the unloading of O₂ to tissue:

Increase 2,3 BPG, decrease in PH

5) Cooperativity is about :

Changing the quaternary structure of Hb



Community:

1) Not true about dots:

decrease follow up cases of TB

Physiology:

1) Tidal volume = 550 ml

Pulmonary capacity = 6000 ml

Dead space = 150 ml

Ventilation rate 14ml/min

Resting alveolar ventilation is ?

Ans: 6.0 L/min

2) Surfactants prevent lung collapse by: Decreasing the pressure within alveoli.

3) Oxygen's percentage in the atmosphere is _____ than CO₂'s percentage. And its solubility in water is _____ than CO₂'s solubility.

A. Lower, higher

B. Higher, lower ✓

C. Lower, lower

D. Higher, higher

E. none of the above

4) "As temperature goes up in a volume of gas, the volume rises proportionately". This law is... : Charles's Law

5) The large cross sectionl area :

A.Trachea

B.Alveoli ✓

C.Bronchi

D.A+c

6) which of the following is the most factor that can increase the volume of the air that enters into the lung:

A.Increase gradiant partial pressure ✓

(from Dr)

B.Increase in action potential

C.Both a,b



7) Which of the following is true when PO₂ is decreased?

- A. pulmonary arteries constrict while systemic arteries dilate ✓
- B. pulmonary arteries dilate while systemic arteries constrict
- C. Both pulmonary arteries and systemic arteries constrict
- D. Both pulmonary arteries and systemic arteries dilate

8) Intrapleural pressure :

Always less than alveolar pressure

9) Which of the following does not play a role in inspiration :

Relaxation of diaphragmatic muscle

10) Fick's law depends on multiple factors which one of them will have the most prominent effect:

- A. Distance
- B. Molecular size
- C. Partial p gradient ✓
- D. Temperature
- E. Humidity

11) Which of the following is incorrect about surfactant :

- A. Decrease surface tension in distal area during inspiration
- B. Decrease surface tension during expiration in proximal area
- C. It is produced by type 2 cell
- D. It increases the amount of air during inspiration
- E. None of the above

12) Which of the following decreases diffusion:

- A. Decrease surface area
- B. Increase fluid in lung
- C. Decrease pressure coefficient
- D. All of the above ✓



Pharmacology:

1) Tremor is seen mostly with:

salbutamol

2) Omar, who ages 20 years, is complaining from (cough, fever) He was thought to have a Community Acquired Pneumonia. What the most suitable Empirical treatment for him?

Azithromycin

3) Which of the following is true?

A. For a long lasting effect, we can use Salbutamol daily and chronically to treat Asthmatic patients

B. For long lasting effect, we can use long acting B2 agonists as a monotherapy in Asthmatic patients

C. B2 agonists are contraindicated during pregnancy

D. Tiotropium is as effective as Salbutamol in reversing the effect of Asthma

E. None of the above ✓

4) Addictive effect : Codeine

5) The drug that can be used as empirical treatment for Rhinosinitis:

A. Penicillin V

B. Amoxicillin + clavunate ✓

6) If you changed the treatment from oral to inhaled corticosteroid you must tapering the dose to avoid:

A. adrenal crisis ✓

B. CNS disturbances

C. Osteomyelitis

7) Can be used for chronic rhinitis but require more than a week :

A. Inhaler corticosteroids

B. Intranasal corticosteroids ✓

8) Used as trial therapy:

Leuktriens

Pathology:

1) Types of emphysema that occur after surgical removal of diseased part :
compensatory

2) Carcinoma which we can examine it by sputum smear:

squamous carcinoma

3) Not correct about pneumoconiosis : dangerous one which size from 5-10 micrometer

4) Pulmonary hypertension:

1/4 of systemic one

5) Not correct about laryngeal papilloma :

it happens due to irritation and vocal abuse

6) Not correct about Chronic bronchitis:

bacterial infection has role

7) Not complication of bronchiectasis:

plaques

8) Mismatch one:

broncho alveolar ↔ hilar carcinoma

9) According to pathogenesis of emphysema occurs because:

protease - anti protease imbalance



Microbiology:

1) colonies resemble fried eggs and can be stained with Dienes stain:
mycoplasma

2) A patient comes to the clinic with an earache. There is a foul smelling otorrhea coming out of his ear, and his auricle What is the most likely organism to cause these signs?

Pseudomonas aeruginosa

3) A boy present to the ER with strawberry tongue, rash on the chest and fever, his mother noticed whitish exudate on his tonsils 3days ago, the causative microorganism??

Strep pyogenes

4) Not in MERS:

intravenous immunoglobulin

5) The incorrect statement:

A.Shick test in diphtheria

B.Throat swab test in throat

C.can't remember

D.None of the above ✓

6) Which one not caused by hemophilus influenza :

influenza

7) How can we administrate nonimmunized person with influenza vaccine:

Un coating because it is the function of M protein in influenza

8) Characteristic of corona virus:

cause common cold

9) Mismatched :

H.influnza →TCT(virulence factor in whooping cough pertussis)



10) Not correct about *p.jivorici*:

Cell culture can support our knowledge about the life cycle

I expect this is the answer because it cannot grow in cell cultures)

11) 60 year old farmer in Mexico presents with cough fever and showed budding yeast ?

H.capsulatum

