

# TEST BANK



**1-Which of the following methods is involved in liver regeneration?**

- A. Neuronal stimulation
- B. Hematopoietic stem cells
- C. Hepatocytes proliferation
- D. Bone marrow transplantation

**2-which one of the following tissue type is considered a permanent tissue?**

- A.liver
- B.oral mucosa
- C.nephrons
- D.neurons

**3-vascular endothelial growth factor is considered the most potent fibrogenic reparative mediator ?**

- A.yes
- B.no

**4-Found in mature scars:**

- A. cross linked collagen 1
- B. Granulation tissue
- C. a lot of thin-walled capillaries
- D. collagen 3 only

**5-Which of the following statements about VEGF (Vascular Endothelial Growth Factor) is correct?**

- A. VEGF is an anti-angiogenic factor.
- B. VEGF promotes the regression of existing blood vessels.
- C. VEGF stimulates the proliferation of endothelial cells and sprouting.
- D. VEGF stabilizes blood vessel walls and inhibits new vessel formation.

**6-What is the role of Notch signaling in angiogenesis?**

- A. It promotes the formation of tip cells.
- B. It stimulates the growth of new blood vessels.
- C. It inhibits all aspects of angiogenesis.
- D. It has no involvement in angiogenesis.

**7-What is the major protein deposited in scar formation at the end of tissue repair by granulation tissue formation?**

- A. Hemoglobin
- B. Collagen
- C. Elastin
- D. Keratin

**8-What's true about TGF-B:**

- A. The most important fibrogenic factor
- B. responsible about sprouting
- C. has no role in repairing
- D. produced by neutrophils only

**9-What is the purpose of tissue remodeling in the context of wound healing?**

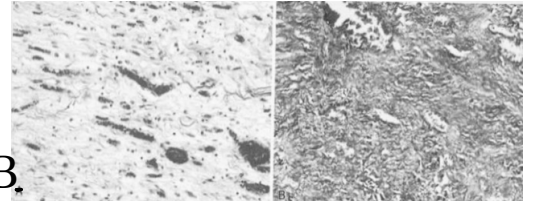
- A. To prevent inflammation
- B. To produce new blood vessels
- C. To promote tissue regeneration
- D. To strengthen and restructure the repaired tissue.

**10-What mediates fibrogenesis and CM deposition:**

- A. TNF
- B. IF- $\gamma$
- C. TGF beta
- D. Nitric oxide

**11-What is the correct statement about the following images ?**

- A. We found more blood vessels in image B
- B. image A represents mature scar
- C. image B represents the early stages of repair
- D. we found cross-linked collagen type 1 in image B.



**12-What is the correct order of the main steps in repair by scarring?**

- A. Inflammation, clot formation, collagen synthesis, angiogenesis, connective tissue remodeling, formation of granulation tissue, migration and proliferation of fibroblasts.
- B. Angiogenesis, connective tissue remodeling, inflammation, formation of granulation tissue, collagen synthesis, clot formation, migration and proliferation of fibroblasts.
- C. Clot formation, inflammation, angiogenesis, formation of granulation tissue, migration and proliferation of fibroblasts, collagen synthesis, connective tissue remodeling.
- D. Formation of granulation tissue, clot formation, connective tissue remodeling, inflammation, angiogenesis, migration and proliferation of fibroblasts, collagen synthesis.

**13-Secondary repair -compared with initial repair- has:**

- A. more scar and more tissue injury
- B. always associated with tissue granuloma
- c. very small tissue lost
- D. maintained function of the repaired tissue

**14-One of the following sentences is correct :**

- A. Tissues with better blood supply heal more slowly
- B. Healing process is affected by one factor only
- C. Taking steroid drugs will delay tissue repair
- D. The presence of foreign bodies enhances repair process

**15-A 53 year old male patient came to you with perianal pain, fever and chills .he gave history of anal fissure and hemorrhoids for the prior 2 years on examination ,you find perianal swelling , ill-defined mass, which is tender to touch. you made the diagnosis of an abscess and you performed "incision and drainage" . the wound after this procedure will heal by:**

- A. Healing by primary /first intention
- B. This is a severe purulent inflammation /Abscess needing healing by granulation (second intention )
- C. Quick regeneration and re-epithelialization
- D. stem cells will be required regeneration of lost tissue will follow

**16-Microscopic examination of granulation tissue and early immature scar formation will show ?**

- A. numerous young capillaries and heavy mixed inflammation cell infiltrate
- B. complete re-epithelialization of the surface
- C. heavy eosinophilic and mast cell infiltrate
- D. Abundant cross-linked collagen type 1 fibers

**17-In contrast to repair after acute inflammation repair after chronic inflammation is characterized by:**

- A. Lesser activity of vascular endothelial growth factor
- B. Lesser amount of collagen type 1
- C. granulation tissue and scar formation
- D. quick and simple with no need for mediators

**18-The final stages of repair remodeling occurs. this process characterized by:**

- A. formation of platelet plugs
- B. increased angiogenesis
- C. degradation of collagen by matrix metalloproteinase
- D. switching type 1 collagen to type 3

**19-Which of the following statements about the hemostatic plug is not correct?**

- A. The hemostatic plug forms after the remodeling
- B. Platelets play a crucial role in the formation of the hemostatic plug.
- C. The hemostatic plug helps stop bleeding
- D. The hemostatic plug formation usually takes mintues

**20-one of these mediators are found in activation of fibroblast and not found in angiogenesis :**

- A.FGF-2
- B.TGF-beta
- C.VEGF-A
- D.PDGF

1.C

2.D

3.B

4.A

5.C

6.A

7.B

8.A

9.D

10.C

11.D

12.C

13.A

14.C

15.B

16.A

17.C

18.C

19.D

20.D

اللهم سلّم غزّة وأهلها من كل سوء وشر،  
اللهم إنا نستودعك غزّة وأهلها، أرضها،  
وسماءها، رجالها ونساءها وأطفالها يا ربّ  
العالمين اللهم إنا نستودعك أهلنا في غزّة  
اللهم احرسهم بعينك التي لا تنام  
واجعل دائرة السوء على عدوك وعدوهم،  
اللهم استر عوراتهم وآمن روعاتهم

