# IQRA NATIONAL UNIVERSITY DEPARTMENT OF ALLIED HEALTH SCIENCES

Final-Term Examination 2020

Course Title: microbiology and pathology DPT  $4^{\rm th}$ 

Instructor: Dr. Imran khan

Total Marks: 50

# Name:Maaz Rahim

ID...15182.....

Q1. What do you know about healing and repair. Explain (15)

Ans1:-**Healing**:- The process of returning to health ,the restoration of structure and function of injured or disease tissues. Healing process includes blood cloting,tissue mending and wound healing.

2)**<u>Repair:-</u>**The physical or mechinical restoration of damaged tissue especially the replacement of dead or damage cells in abody tissue or organ by healthy new cells.

Q2. What are hemodynamic disorders? Explain any 3 (10)

Ans2:- 1) Edema .
2) Hypermia and congestion
3) Hemorrahage throbosis embolism Infraction
Edema:- increase in interstial tissuse space

### Causes:-

Increase hydrostatic pressure Decrease plasma oncotic pressure Sodium retention Lympatic obstruction Inflammation **Types:-**Anasarca Dependent edema PumImonary edema Renal edema pitting edena Periorbital edema

# 2) Hypermia and congestion :-

Def increase in volume of blood in aparticular tissuse In both increase volume and pressurse of blood in a tissuse is associated with capillary dilation and potiential for fluid extravastion

3) **Hemarrahage** ..extravastion of blood due to vessel ruputure Types hematoma..purpura..hemothroax

Q3. What is renewal and regeneration? (10)

## Ans3:- Definition:-.growth of cell to replace loss tissuse

Examples:-Growth of amputed leg in amphibians Regenration of liver after resection or necrosis

## **Types of regeneration**

Reparative Restorative Mechanism Occurs by proliferation of cell that survive the injury Retain the capacity to proliferate In rapidly dividing epithlium of skin intestine and liver in other cases tissuse stem cell contribute to regeneration.

#### Factors influence regeneration:- regeneration

Cell cell interaction Growth factors Extarcellular matrix

### **Factors affecting regeneration**

Vitamin c Diabetes Chronic disorders Infection Blood disorders Harmones Steroids

Q4. Write a detailed note on staphylococcus and streptococcus (15)

Ans4:-Staphylococcus Family..Micrococcea Genus ..staphylococcus Robert koch first time see it in pus Sir alexender ongaston named it Classifaction On base of pathology Pathogenic e.g s.aureus Non pathogenic e.g s.albus s.citrus s.homins On base of cogulase production Cogulase positive e.g s.aureus Cogulase negative s.epidermides On base of pigment Golden yellow pigment..e.g s.aueus White colonies e.g s.albicans Lemon yellow e.g s.citrus Laboroty test..total leukocyte Blood culture Pus culture Diseases Cutanous infecton Deep infection Toxic shock syndrome Food posionig Steptoccocus Are gram positive oraganisms Are arrange in chains or pairs Part of normal flora Classificaton Brown classification Alpha hemolytic e.g viridians Beta hemolytics e.g pyogenes aglacticia Gamma hemolytic e.g enteantibody.

Lancefied classification Group A e.g streptococcus pyogenes Group B e.g steptococcus aglactica Group c e.g steptococcus equsimils Griffth classification Diseases Respiratory skin and gential infections Meningitis Endocartidits Pneumonia Labortory tests Throat swab Culture blood and swabs Gram staining Aso titre Anti DNAase antibody.