**Course Title: Histology ll Instructor: Ms. Salma Ishaq**

**Max Marks: 50**

**NOTE:**

**Final term**

**Afra seyab khan**

**ID 14576**

**Each question carries 10 marks.**

Q1: Distinguish the fibrous capsule and articular disc?

Q2: Write a short note on the clinical consideration of salivary glands.

Q3: Describe the factors that play a role in shading?

Q4: Explain the classification of tooth movement?

Q5: Enlist the function and component of TMJ.

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Good luck.

**Ans 1:**

**Fibrous capsule:-**

* Above to the anterior adge of the preglenoid plane
* Posteriorly to the aquamotympanic fissure, between these to the adges of the articular fossa
* Below to the periphery of the neck of the mandible

**Articular disc:-**

* The articular disc is the most important anatomic structure of the TMJ
* It is a biconcave fibrocartilagmous structure located between the mandibular condyle and the temporal bone component of the joint.
* Function to accommodate a hinging action as well as the gliding action between the temporal and mandibular articular bone.

**Ans 2:**

**Clinical consideration of salivary gland:-**

**Xerostomia**

* Drug central or peripheral intonation of SG

**Destruction of SG**

* Radiotherapy to H and N region
* Chemotherapy
* Bone marrow transplant
* Autoimmune disease
* Lymphocyte destruction

**Physiological factor**

* Loss of protective effect of salivary buffer increase susceptibility to infection
* Difficult and pain on eating
* Temporary saliva
* Drugs like pilocarpine

**Age change**

* Parenchymal cells cells replace by adipose tissue
* Decrease salivary production
* Resting saliva from there noraml range

**Ans 3:**

**Factor play role in shedding:-**

* Pressure from succesional teeth
* Grwoth-> face and jaw enlargement of masticatory muscles increase the force
* Pressure + enlargement = loss of supporting tissue then tooth exfoliation accelerate.

**Ans4:**

**Classification of tooth movement:-**

* Physiological tooth movement take place during and after tootg eruption
* Include tooth eruption, migration or drifting of teeth, change in tooth position during mastication
* Pathological tooth movement mean if any disease cause

**Force**

* Application
* Elimination

**Effects of force**

* On bone teeth
* Tension-> bone formation-> osteoblasts
* Compression-> bone resroption -> osteoblasts

**Magnitude of force**

* 7 to 8 grams

**Duration of force**

* 4 to 6 hrs

**Ans 5:**

**Function of TMJ:-**

* Mastication and speech
* Strong muscles control movement of the jaw amd TMJ
* Movement is guiding by shape of bone, muscle, ligament and occlusion pf the teeth
* Rotation and anterior translation are primary movement
* Posterior translation and modeletarl translation are two possible movement of TMJ
* The function are influenced by three fundamental factors
* Anatomical structure of TMJ
* Neuromuscular mechanism
* Dental occlusion

**Components of TMJ**

* Ligaments Fibrous capsule
* Articular disc
* Letral ligament of jaw
* Sphenomandibular ligament
* Stylomandibular ligament

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