

私立臺北醫學院 90 學年度第 1 學期 期中考試 (試) 題紙

系級	科目	授課教師	考試日期	學號	姓名
牙四	綜合學	吳淑芳	90年1月4日第1-2節		

\*①請注意本試題共 張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。  
 ②每張試題卷務必填寫(學號)、(姓名)。

選擇題：

- Rest position changes with head position :
  - but contact vertical dimension is responsive to changes in rest position
  - and should be used to relate the mandibular cast to the maxillary cast because it is a functional position
  - a and b
  - and should be considered even in a single restoration
  - a,b,and d
- Freedom in centric :
  - has anterior-posterior and lateral dimensions
  - occurs in almost everyone
  - would improve the dental health of most adults
  - is best when about 0.5 mm long
  - all of the above
- Centric occlusion
  - can be used to relate the maxilla to the mandible without error
  - can be use to mount casts that will have no occlusal interferences in centric occlusion, but will have in centric relation
  - is not always anterior to centric relation
  - is not found in animals
  - all of the above
- Centric occlusion :
  - is maximum intercuspation of the teeth
  - is the initial contact position of the open-and-close clench
  - is best determined with stone casts
  - is almost always correct if casts are mounted in centric relation
  - all of the above
- Centric occlusion:
  - may be influenced by the force of clench or bite
  - may not be registered on mounted casts correctly because of hard wax used for the interocclusal registration
  - may not be obtained correctly on casts because of incorrect use of impression material
  - may be influenced by the temporomandibular joints
  - all of the above
- Freedom in centric can be :
  - found rarely, if ever, in the natural dentition
  - developed in an occlusal adjustment
  - formed in restorations
  - developed in complete dentures
  - all of the above
- A tooth with increased mobility ( jiggling tooth ) :
  - may be adapting to an occlusal interference
  - could be a response to an initial interference elsewhere in the mouth
  - a and b
  - will show progressive injury and thus traumatic occlusion
  - a, b, and d
- A full crown restoration is seated with cement. The "filling" feels "high" and requires grinding. The reason for the interference could be:
  - thickness of the film of cement
  - case mounted in centric occlusion
  - poor temporary restoration and some extrusion of the tooth
  - impressions taken after clenching or mouth open for one-half hour for crown preparation
  - all of the above

私立臺北醫學院 90 學年度第 1 學期 期中考試 (命題) 題紙

系 級	科 目	授 課 教 師	考 試 日 期	學 號	姓 名
牙 回	咬合學	吳長務 學	90 年 1 月 14 日 第 1-2 節		

\*①請注意本試題共 張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。  
 ②每張試題卷務必填寫(學號)、(姓名)。

9. Occlusal interferences may interfere with :
  - a. swallowing and speaking
  - b. chewing
  - c. a and b
  - d. centric occlusion function
  - e. a, b, and d
10. Concerning mastication of food :
  - a. Tooth contacts rarely occur in centric occlusion
  - b. Tooth contacts occur frequently and regularly in centric relation
  - c. An ideal occlusion is a requisite for masticatory efficiency
  - d. It is done primarily in a border position
  - e. None of the above
11. The points of reference for a simple non ear piece :
  - a. arbitrary hinge axis and notch on incisal pin
  - b. arbitrary hinge axis and infraorbital point
  - c. a and b
  - d. true hinge axis and upper notch on incisal pin
  - e. a, b, and d
12. When using a small simple articulator, contact vertical dimension error in the molar area would be minimized if the centric occlusion check bite :
  - a. has zero thickness
  - b. is made of very soft wax
  - c. is taken in centric relation
  - d. is taken in centric occlusion
  - e. none of the above
13. A thick centric occlusion check bite could result in a molar restoration having :
  - a. premature contact in centric occlusion when placed in the mouth
  - b. absence of centric stops
  - c. lateral interferences
  - d. protrusive interferences
  - e. all of the above
14. A balancing side interference is found on articulated casts but not in the patient. This discrepancy is possibly because :
  - a. the condylar inclination is incorrect
  - b. the balancing interference tooth is mobile
  - c. working side disclusion is not found when in fact it is present in the patient
  - d. there is distortion of impression and hence distorted casts
  - e. all of the above
15. Relative to mandibular supporting cusps and opposing fossae, the cusp is ground :
  - a. only when it makes a premature contact in centric and lateral excursions
  - b. when it makes a premature contact in centric and not in lateral excursions
  - c. when it is "high" in both centric relation and centric occlusion (rarely)
  - d. when it is a premature contact in centric relation, centric occlusion and protrusive excursions
  - e. none of the above
16. As a guide for an occlusal adjustment, a rule that should be followed is:
  - a. maximal functional contact should be maintained around centric
  - b. grinding of the lingual axial contours of maxillary teeth should be avoided
  - c. avoid grinding the buccal axial contours of mandibular teeth
  - d. occlusal interferences in protrusive involving anterior teeth should be adjusted on the lingual surfaces of maxillary teeth
  - e. all of the above



私立臺北醫學院 90 學年度第 1 學期 期中考試 (命試) 題紙

系級	科目	授課教師	考試日期	學號	姓名
D4	Occlusion	Wu et al	90年 1 月 4 日 第 1 節		

※①請注意本試題共        張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。  
 ②每張試題卷務必填寫(學號)、(姓名)。

26. The position CO(centric occlusion)is:
  - a. determined by maximum intercuspation
  - b. called habitual centric
  - c. a and b
  - d. anterior to centric relation(CR)
  - e. a, b and d
27. Centric Relation(CR):
  - a. is a ligamentous position
  - b. is called terminal hinge position
  - c. a and b
  - d. denotes the posterior functional range of the mandible
  - e. a, b and d
28. Initial contact of the teeth form rest position is made:
  - a. by closure around the terminal hinge axis
  - b. often involving a translatory movement of the mandible
  - c. a and b
  - d. with the mandible in CR
  - e. a, b and d
29. The greater the intercondylar distance:
  - a. the more mesial is the placement grooves on the mandibular teeth
  - b. the more distal is the placement of ridges and grooves on the maxillary teeth
  - c. a and b
  - d. the greater the lingual concavity of the maxillary anterior teeth
  - e. a, b and d
30. The horizontal condylar guidance setting of the articulator:
  - a. indicates the angle of the eminentia in degree
  - b. supplies Bennett movement
  - c. a and b
  - d. simulates condylar guidance of the patient
  - e. a, b and d
31. The first and second steps in functional waxing are:
  - a. development of supporting cusp tips and centric stops
  - b. development of non-supporting cusp tips and centric stops
  - c. development of supporting cusp tips and cusp ridges
  - d. development of centric stops and supporting cusp tips
  - e. none of the above
32. Factors influencing maxillary anterior lingual concavity are
  - a. Bennett movement
  - b. intercondylar distance
  - c. a and d
  - d. compensating curve
  - e. a, b and d
33. What factors can be appreciably changed by occlusal adjustment
  - a. curve of spee
  - b. plane of occlusion
  - c. a and b
  - d. cusp angle
  - e. a, b and d

私立臺北醫學院      學年度第      學期 期中考試 (命題) 題紙  
 期末

系級	科目	授課教師	考試日期	學號	姓名
D4	Occlusion	Wu, et al.	90年 1月 6日 第 1 節		

\*①請注意本試題共      張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。  
 ②每張試題卷務必填寫(學號)、(姓名)。

34. Vertical dimension is in one way or another a measure of:
  - a. postural muscle activity
  - b. face height (lower 1/3)
  - c. a and b
  - d. tooth height
  - e. a, b and d
35. Contact vertical dimension is determined by
  - a. anterior teeth
  - b. posterior teeth
  - c. interocclusal space
  - d. rest vertical
  - e. all of the above
36. The interocclusal space, measured at the incisor is:
  - a. dependent on head posture
  - b. about 3-8 mm, average
  - c. a and b
  - d. related to vertical overlap of the teeth
37. Rest position:
  - a. is sometimes referred to as a postural position
  - b. is a stable position that can be used as a good reference for mounting casts on an articulator
  - c. a and b
  - d. does not change with head position
  - e. a, b and d
38. The difference between contact vertical dimension and rest vertical dimension is :
  - a. the interocclusal space
  - b. free-way space
  - c. a and b
  - d. dependent upon vertical overlap
  - e. a, b and d
39. A "cuspid protected occlusion" is one where:
  - a. contact in working is only on cuspids
  - b. working contact starts with the cuspid and moves posteriorly for group function
  - c. no lateral movement is possible thereby limiting occlusal forces to those in the vertical axis
  - d. most of the guidance in working comes from the cuspids
  - e. none of the above
40. Ridge and groove direction are affected by which of the followings?
  - a. direction of the rotating condyle
  - b. intercondylar distance
  - c. a and b
  - d. Bennett movement
  - e. a, b and d

私立臺北醫學院 P 學年度第 1 學期 期中 考試 ( 命 題 ) 試 題 紙

系 級	科 目	授 課 教 師	考 試 日 期	學 號	姓 名
D4	occlusion	Wu . et al	P 年 1 月 2 日 第 1 節		

※①請注意本試題共 張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。  
 ②每張試題卷務必填寫(學號)、(姓名)。

41. Which of the following statements related to the unloaded reflex is correct
  - a. The "unloading reflex" elicits a strong jaw opening caused by a noxious stimulus
  - b. The muscle spindles in the jaw-closing muscles are completely responsible for the occurrence of unloaded reflex
  - c. During chewing brittle foods, the unloaded reflex is usually seen in the first few cycles of chewing
  - d. none of the statements is correct
42. During Jaw-closing phase of mastication
  - a. The digastric motoneurons are hyperpolarized
  - b. The Jaw-opening reflex triggered by lower-threshold afferents is inhibited
  - c. The masseter motoneurons are hyperpolarized
  - d. The muscle spindles in digastric muscles will be stretched which will inhibit the masseter motoneurons
43. Which of the following statements is correct
  - a. Chewing can be induced by stimulating the intra-oral pressure receptors in decerebrated animals
  - b. the classic masticatory cortex area is located laterally to the orofacial primary somatosensory cortex
  - c. The chewing center in the midbrain can be activated from the cortex or the oral cavity
  - d. All of the statements are correct
44. 肌梭(muscle spindle)的初級感覺末梢(primary sensory ending)連接那一種神經纖維
  - a. Ia      b. Ib      c. Ic      d. II
45. 感受咬力大小的牙周組織，其感受器(Receptor)屬於：
  - a. Exteroceptor
  - b. Teleceptor
  - c. Proprioceptor
  - d. Interceptor

私立臺北醫學院 90 學年度第 1 學期 **期中** 考試 **命題** 題紙  
**期末**

系級	科目	授課教師	考試日期	學號	姓名
04	occlusion	Wu et al	90年1月6日第1節		

※①請注意本試題共          張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。  
 ②每張試題卷務必填寫(學號)、(姓名)。

46. 患者#36(左下第一大臼齒)的 distobuccal cusp 與# 26 的 central fossa 形成 premature contact in centric occlusion. 患者覺得左後側方有高點(僅#26 與 #36 有接觸), 無中心滑動, 側方滑動時, 該 cusp 亦未造成任何接觸或干擾. 此時應如何調整其咬合
  - a. 深磨#26 的 fossa
  - b. 磨低# 36 的 cusp
  - c. #26 與#36 的 cusp 各磨一點
  - d. 不必調整. 要患者忍耐
47. 關於 primary trauma from occlusion
  - a. caused by normal or overt occlusal force on the diseased or unhealthy periodontium
  - b. caused by overt occlusal force on the healthy periodontium.
  - c. it is not recommended to perform occlusal adjustment in this case.
  - d. None of the above
48. 有少數人其 CR 與 CO 位置相同(沒有 slide in centric), 此稱為:
  - a. Freedom in centric
  - b. Long centric
  - c. Point centric
  - d. Power centric
  - e. None of the above
49. 咬合調整的目標是為求得:
  - a. Balanced occlusion
  - b. Normal occlusion
  - c. Ideal occlusion
  - d. Mutually protected occlusion
  - e. All of the above
50. 下列有關 BULL rule, 何者為不正確:
  - a. BULL rule 用於消除 working-side interferences
  - b. BULL rule 用於消除 protrusive interferences
  - c. BU 代表 : 磨 Buccal inclines of upper buccal cusps
  - d. LL 意指 : 磨下顎舌側咬頭的 buccal inclines
51. 下列有關 Freedom in centric 之陳述, 何者為不正確:
  - a. Freedom in centric 於 TMJ 約為 0.2mm
  - b. Freedom in centric 於牙齒約為 0.2-0.5mm
  - c. Freedom in centric 是人為的
  - d. Freedom in centric 自然存在於約 25% 的人口中

私立臺北醫學院 8 學年度第 1 學期 期中 考試 (試) 題紙

系 級	科 目	授 課 教 師	考 試 日 期	學 號	姓 名
牙 10	咬合學	Wu et al	90年1月16日第1-2節		

※①請注意本試題共        張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。  
 ②每張試題卷務必填寫(學號)、(姓名)。

52. The first order neuron of the muscle spindle in masticatory muscle is in:

- A. Paradorsal ganglion
- B. Trigeminal ganglion
- C. Main sensory nucleus
- D. Mesencephalic nucleus

53. The central pattern generator of the masticatory system is located in:

- A. Cerebral cortex,
- B. Brain stem
- C. Cerebellum
- D. Spinal cord

54. The neurons directly control the movement of mastication is in:

- A. Cerebral cortex
- B. Mesencephalic nucleus
- C. Trigeminal motor nucleus
- D. Pattern generator

55. The central pattern generator of the masticatory system is in:

- A. Cerebral cortex
- B. Mesencephalic nucleus
- C. Reticular formation
- D. Trigeminal motor nucleus

56. The slow adapting periodontal mechanoreceptors is usually found in:

- A. Coronal part of the root
- B. Middle part of the root
- C. Apical part of the root
- D. Part of the root close to fulcrum of tooth rotation



私立臺北醫學院 90 學年度第 1 學期 期中 考試 (試) 命題紙

系級	科目	授課教師	考試日期	學號	姓名
D4	occlusion	Wu et al	90年 1 月 10 日第 1 節		

※①請注意本試題共        張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。  
 ②每張試題卷務必填寫(學號)、(姓名)。

Please compare "Ideal Occlusion" and "Normal Occlusion".

Please compare "Point Centric" and "Freedom in Centric".

What is the concept of the Bonwill's Geometric Ideal?

What is the implication in the design of articulator?

請提出對咬合學及咬合實驗的建議

咬合學:

咬合實驗:

年輕人 要認真 Eyes Up.

Good Luck to Every One  
 Enjoy Your Colorful Holidays

私立臺北醫學院 90 學年度第 1 學期 **期中** 考試 (命題) 題紙

系級	科目	授課教師	考試日期	學號	姓名
D4	Occlusion	Wu et al	90年1月6日第1節		

※①請注意本試題共        張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。  
 ②每張試題卷務必填寫(學號)、(姓名)。

複選題

- \_\_\_ 1 用力咬時 digastric 會 a.收縮 b.放鬆
- \_\_\_ 2 張口時除 digastric 外 a.lateral pterygoid b.medial pterygoid.也會收縮?
- \_\_\_ 3 masseter 除閉口外與下顎 a.前伸 b.後縮有關?
- \_\_\_ 4 側方運動時那些肌肉收縮 a. lateral pterygoid b, masseter c.temporalis?
- \_\_\_ 5.側方運動時頸部那一條肌肉明顯收縮 a 同側 SCM b 對側 SCM c.Trapezius?
- \_\_\_ 6.用門牙咬硬物時 TMJ 的髁頭會 a.向上壓 b.向下拉 c.不動?
- \_\_\_ 7.用第二大臼齒咬硬物時 TMJ 的髁頭會 a.向上壓 b.向下拉 c.不動?
- \_\_\_ 8.下顎最放鬆時咬合面之間有多大空隙 a.2-4mm b.10-15mm c20-30mm?
- \_\_\_ 9.提高咬合高度咬壓會 a.增加 b.減少 c.不變?
- \_\_\_ 10.提高咬合高度超過原有 clinical rest position 但不超過 EMG rest position 肌肉會 a 被拉長 b.放鬆 c.緊張

問答題

1. 為甚麼 superior lateral pterygoid 與咬肌同步收縮?
2. 為甚麼第一大臼齒咬合面最大?