

## **ASSIGNMENT 17**

**Material Covered:**  
***Units 8.5 and 8.6 of Module 8***  
***of the IACLE Contact Lens Course***

## ASSIGNMENT 17

Read the questions carefully and record your answers on the answer sheet provided.

1. ***Diffuse, non-infective, lamellar keratitis is also known as:***
  - a. Gobi Ghosting
  - b. Kalahari Keratitis
  - c. Sands of the Sahara
  - d. Mojave Mirage
  
2. ***Approximately what percentage of long-term PMMA contact lens wearers exhibit significant corneal distortion?***
  - a. 3%
  - b. 10%
  - c. 20%
  - d. 30%
  
3. ***Which statement regarding intra-stromal corneal rings is INCORRECT?***
  - a. Synthetic ring implanted into the peripheral stroma
  - b. Can be used to treat recurrent corneal erosions
  - c. The thicker the insert, the greater the correction achievable
  - d. Minimal loss of contrast sensitivity
  
4. ***An important exclusion criterion for refractive surgery is:***
  - a. A large phoria at distance
  - b. Amblyopia
  - c. Presbyopia
  - d. Forme fruste keratoconus
  
5. ***Which one of the following penetrating keratoplasty (PK) complications occurs LATER typically, rather than immediately AFTER surgery?***
  - a. Graft infiltrates
  - b. Iris prolapse
  - c. Wound leak
  - d. Shallow anterior chamber
  
6. ***What is the characteristic emission wavelength of an argon-fluoride excimer LASER?***
  - a. 193  $\mu\text{m}$
  - b. 205  $\mu\text{m}$
  - c. 193 nm
  - d. 205 nm

7. **All of the following conditions are indications for photo-therapeutic keratectomy (PTK) treatment, EXCEPT?**
  - a. Lagophthalmos
  - b. Superficial opacities of Reis-Buckler's dystrophy
  - c. Recurrent corneal erosions
  - d. Bullous keratopathy
  
8. **Which statement regarding photo-refractive keratectomy (PRK) is INCORRECT?**
  - a. Corneal epithelium is removed under topical anaesthesia
  - b. Bowman's layer remains intact in the ablation zone
  - c. Patients experience ocular pain during epithelial regrowth
  - d. The development of a stromal reticular scar in the ablation zone is common
  
9. **Contra-indications to photo-refractive keratectomy (PRK) include all of the following, EXCEPT:**
  - a. Blepharitis
  - b. Corneal thinning
  - c. Dark irides
  - d. Systemic lupus erythematosus
  
10. **When refitting PMMA wearers with RGP lenses, which one of the following actions is LEAST appropriate?**
  - a. Refit with a medium to high Dk RGP material
  - b. Design RGP lenses that are smaller and steeper than their PMMA lenses
  - c. Advise patients that RGP lenses are more prone to scratching and chipping than PMMA lenses
  - d. Delay the determination of their new spectacle Rx for about 6 weeks after commencement of successful RGP lens wear
  
11. **Which one of the following is NOT a contra-indication to LASER-assisted in situ keratomileusis (LASIK)?**
  - a. Myopia of -9.75 D
  - b. Rheumatoid arthritis
  - c. Implanted pacemaker
  - d. Pupil size > 8 mm in normal light
  
12. **The resurgence of interest in refractive surgery that led to the 'modern era' of refractive surgery as we now know it, was prompted by:**
  - a. Sato of Japan
  - b. Fyodorov of the former USSR
  - c. Barraquer of Columbia
  - d. Bores & Gould of the USA

13. **Which statement regarding radial keratotomy (RK) is INCORRECT?**
- Suitable for myopia <4 D
  - Radial corneal incisions are made to steepen the peripheral cornea
  - Tangential or arcuate incisions can reduce astigmatism
  - Perforation of the globe is a possible surgical complication
14. **All of the following clinical findings are associated with long-term PMMA contact lens wear, EXCEPT:**
- Increased corneal sensitivity
  - Corneal vascularization
  - Endothelial polymegethism
  - Stromal oedema
15. **Where in the eye is an anterior chamber, intraocular lens (IOL) placed?**
- Behind the iris but in front of the crystalline lens
  - In front of the iris
  - Behind the crystalline lens
  - The optic is placed in front of the iris, the haptics behind it
16. **Which statement regarding corneal graft rejection following a penetrating keratoplasty (PK) is INCORRECT?**
- Less common in cases of corneal dystrophies
  - Associated with raised intraocular pressure
  - Most likely to occur 2 to 3 years after surgery
  - Often preceded by inflammatory episodes
17. **Which of the following rigid gas permeable contact lens parameters would MOST likely provide the best fit in a post-radial keratotomy (post-RK) patient?**
- Small diameter (8.8 to 9.3 mm) and relatively flat
  - Small diameter (8.8 to 9.3 mm) and relatively steep
  - Large diameter (9.5 to 11 mm) and relatively flat
  - Large diameter (9.5 to 11 mm) and relatively steep
18. **What type of contact lens would be MOST suitable for a flat and/or proud corneal graft, from which the sutures have been removed?**
- A piggyback lens system
  - A reverse geometry rigid gas permeable lens
  - An ultra-thin, siloxane hydrogel lens
  - A standard tricurve rigid gas permeable lens, fitted flat
19. **When refitting a long-term PMMA contact lens wearer, the BEST approach is to:**
- Refit immediately
  - Cease lens wear for a minimum of 2 weeks, then refit
  - Refit after one day of no lens wear
  - Cease lens wear until the K readings stabilize, then refit

20. Which statement regarding LASER-assisted in situ keratomileusis (LASIK) is **INCORRECT**?
- The integrity of the anterior corneal layers are maintained
  - At least 250  $\mu\text{m}$  of stromal bed should remain after ablation
  - The degree of refractive error correction is determined by the depth of the stromal ablation
  - Decreasing the ablation size for any given correction will increase the required ablation depth