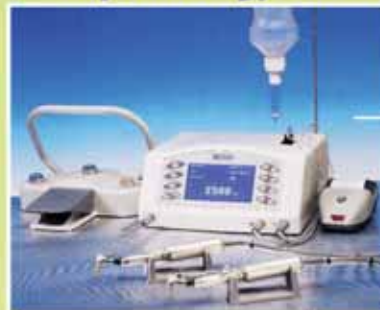


- 1 Which laser type has an absorption peak in pigmented tissue?
  - a ErYAG
  - b Diode
  - c ErCrYSGG
  - d Both a and c
- 2 The YAG range of lasers are recommended for:
  - a Cavity preparation
  - b Hard tissue removal
  - c Soft tissue procedures
  - d Both a and b
- 3 What are the components of pain perception?
  - a Sight and sound
  - b Physical and emotional
  - c Touch and sight
- 4 When smaller fibres synapse with the inhibitory neurone, the inhibitory response is:
  - a Reduced
  - b The same
  - c Increased
- 5 Which three substances are known to sensitise the A-delta and C nociceptors?
  - a Bradykinin, cholecystokinin, serotonin
  - b Histamine, potassium ions, norepinephrine
  - c Prostaglandins, leukotrienes, substance P
- 6 Which of the following statements is correct:  
Experiments on bovine dentine show laser irradiated sites:
  - a Less acid resistant but more difficult to bond to
  - b More acid resistant but easier to bond to
  - c More acid resistant but more difficult to bond to
  - d Less acid resistant but easier to bond to
- 7 According to the author, of the gram positive organisms and facultative anaerobes, which is often cited as one of the main culprits in failed endodontic treatment cases:
  - a Streptococci,
  - b Actinomyces
  - c Peptostreptococci
  - d Enterococcus faecalis
- 8 When the efficacy of ErYAG lasers to disinfect root canals was compared with 1% sodium hypochlorite, the laser was found to be at least effective as hypochlorite when lasing occurred at:
  - a 3mm short of the apex
  - b 4mm short of the apex
  - c At the apex
- 9 Photo-activated disinfection (PAD) uses which solution to photosensitise bacterial cells such as *E faecalis*:
  - a Calcium hydroxide
  - b Sodium hypochlorite
  - c Tolonium chloride
  - d None of the above
- 10 Which of the following statements is correct?  
Adjunctive use of a diode laser with SRP is known to result in:
  - a Less invasive periodontal therapy, reducing the need for flap techniques
  - b Greater bacterial elimination
  - c Neither of the above
  - d Both of the above

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