

1 Which of the following statements is correct?:

- a The relative inflexibility of the fibre composite laminate post has been shown to minimize microcrack propagation in the root
- b The relative inflexibility of the fibre composite laminate post has been shown to increase the potential for microcrack propagation in the root
- c The relative flexibility of the fibre composite laminate post has been shown to minimize microcrack propagation in the root
- d The relative flexibility of the fibre composite laminate post has been shown to increase the potential for microcrack propagation in the root

2 Which of the following statements is correct?:

- a Teeth restored with fibre reinforced dowels display higher survival rates than teeth restored with zirconia dowels
- b Teeth restored with fibre reinforced dowels display lower survival rates than teeth restored with zirconia dowels
- c Teeth restored with fibre reinforced dowels display similar survival rates to teeth restored with zirconia dowels

3 Which of the following statements is correct?:

Structural failure of fibre reinforced materials generally occurs as a result of:

- a matrix fracture
- b fibre fracture
- c fibre matrix interfacial bond fracture
- d a and b
- e a and c
- f b and c
- g a, b, or c

4 Which of the following statements is correct?:

- a Like amalgam, bonded composite restorations usually strengthen the tooth
- b Unlike amalgam, bonded composite restorations usually strengthen the tooth
- c Unlike amalgam, bonded composite restorations usually weaken the tooth

5 Which of the following statements is correct?:

In describing the technique for post restoration the authors recommends that the amount of gutta percha to be left *in situ* to preserve apical seal should be at least:

- a 2 - 3mm
- b 3 - 4mm
- c 4 - 5mm
- d 5 - 6mm

6 Which of the following statements is correct?:

The elastic modulus of UHMWPE fibre was previously shown to be:

- a 1397 MPa
- b 2569 MPa
- c 1.2 Gpa
- d 1397 GPa

7 Which of the following statements is correct?:

Leno-weave is:

- a a special pattern of parallel threads
- b a special pattern of cross-linked threads
- c a special pattern of spiral un-linked threads

8 Which of the following statements is correct?:

- a Fibre reinforced dowels are reported to increase the risk of root fracture
- b Fibre reinforced dowels are reported to reduce the risk of root fracture
- c Fibre reinforced dowels are reported to have no influence on the risk of root fracture

9 Which of the following statements is correct?:

Early efforts to enhance the properties of UHSPE fibres included chemical exposure to:

- a Sulphuric Acid
- b Sulphonic Acid
- c Sulphurous Acid
- d Chromic Acid
- e a and d
- f b and d
- g c and d

10 Which of the following statements is correct?:

The Finite Element Stress Analysis Technique allows:

- a the stress values throughout the structure under investigation to be measured accurately
- b the resistance to deformation of the structure under investigation to be measured accurately
- c the elastic limit of the structure under investigation to be measured accurately

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Head Office
1315 Church Street
Hatfield, Pretoria
T: +27 12 342 8551/2/6
F: +27 12 342 8541
Pretoria:
Heidi: 082 555 4406
Patrick: 082 375 3699

Johannesburg:
Gerhard: 082 373 1548
Daleen: 082 555 9805
Cape Town:
Alma: 082 787 7717
Robyn: 082 415 3547

Port Elizabeth:
Leon: 082 829 6804
Bloemfontein:
Buks: 083 542 0022
Durban:
Surle: 082 783 7699

Garden Route:
George: 082 551 6146
P O Box 11050
Hatfield 0028
South Africa
lad@mweb.co.za
www.lad.co.za