Sl.No. M21014 Course Code: 13118202

VINAYAKA MISSION'S RESEARCH FOUNDATION (Deemed to be University), SALEM

BDS DEGREE EXAMINATION –September 2021 Second Year

DENTAL MATERIALS

			SE	CTI	ON	\mathbf{A}			
Time: Twenty Minu	ites							Maximum: 20 marks	3
Register Number :									
Signature of the can	didate	<u>;</u>					S	Signature of the Invigilat	tor
		-					 		

Instructions to the candidates

- 1. Write your Register Number and sign at the place specified on the first page of this Question Booklet.
- 2. Do not open this question booklet until Invigilator announces the commencement of the examination.
- 3. Answer ALL the Twenty questions. They carry equal marks. No negative marking for wrong answers.
- 4. Answers should be marked legibly in the SHEET provided in capital letters.
- 5. THE QUESTION BOOKLET SHOULD NOT BE TAKEN OUT OF THE EXAMINATION HALL.
- 6. Questions should not be copied and taken out of the Examination Hall. Any one found violating this rule shall not be permitted to write the examination and shall be sent out of the Hall.
- 7. At the end of 20 minutes, when the Invigilator announces 'STOP WRITING' you must stop writing immediately. If the candidate tries to attempt to answer the questions after the prescribed time, their answer script becomes invalid.
- 8. Hand over the questions booklet containing answer sheet to the invigilator when you finish answering or immediately after 20 minutes.

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DENTAL MATERIALS SECTION-A (20X1=20 MARKS)

(Multiple choice questions)

Time: Twenty Minutes Maximum: 20 marks

Select the most appropriate answer and answer in the answer sheet attached:

- 1. Time dependant flow is known as
 - A. Viscosity
 - B. Resilience
 - C. Creep
 - D. Toughness
- 2. Plasters manufactured by
 - A. Wet calcification
 - B. Dry calcification
 - C. Wet calcination
 - D. Dry calcination
- 3. Grainy imprecision occurs by alginate due to
 - A. Inadequate mixing
 - B. Prolonged mixing
 - C. Lesswater in mix
 - D. All of the above
- 4. Highest tear resistance is found in
 - A. Polysulfide
 - B. Poly ether urethane dimethyl acetate
 - C. Poly ether
 - D. Addition Silicone
- 5. Which of the following waxes is used for casting pattern making?
 - A. Boxing wax
 - B. Utility wax
 - C. Inlay wax
 - D. Corrective wax
- 6. Which of the following is/are inhibitor(s) of Polymerization?
 - A. Impurities
 - B. Hydroquinone
 - C. Oxygen
 - D. All of the above
- 7. Duration of Bench curing is
 - A. 20 min
 - B. 30 min
 - C. 90 min
 - D. 120 min
- 8. Preconditioning treatment of metal cast is done by
 - A. Sulfuric acid
 - B. Hydrogen chloride
 - C. Ammonium hydroxide
 - D. Phosphoric acid
- 9. Type III ZOE is used for
 - A. Temporary cementation
 - B. Permanent Cementation
 - C. Temporary filling
 - D. Cavity liner

	Treatment of exposed A. Indirect pulp capping		. ,	
	B. Direct pulp capping	5		
	C. Pulpotomy			
	D. Both B and C			
	Acid etching was devel	oned by		
11.	A. Smith	loped by		
	B. GV black			
	C. Buonocore			
	D. Aristotle			
12		recent in admive	d amalgam alloy novydar?	ı
12.	A. 69%	B. 27%	d amalgam alloy powder? C. 56%	D. 13%
12		D. 27/0	C. 30/0	D. 13/0
13.	DICOR is	4		
	A. Leucite – reinforce	-		
	B. Glass infiltrated sp.			
	C. Castable glass cera			
1.4	D. Magnesia core porc	eram		
14.	Density of Gold is:			
	A. 10.4 gm/cm^3			
	B. 19.3 gm/cm ³			
	C. 14.4 gm/cm ³			
15	D. 12.4 gm/cm ³	is not an allatus	min form of cilian?	
15.	Which of the following	; is not an allotro	pic form of sinca?	
	A. Quartz			
	B. Cristobalite			
	C. Tridymite			
1.0	D. None	4-		
10.	Black casting occurs du			
	A. Overheating of inve			
	B. Incomplete and limit	itation of wax		
	C. Both			
17	D. None	1		
1/.	Crevice corrosion is al	so known as		
	A. Stress corrosion	nome sion		
	B. Concentration cell ofC. Galvanic corrosion	COTTOSION		
	D. None			
10				
18.	Rough is			
	A. Ferric Oxide B. Iron Oxide			
	C. Chronic Oxide D. Silicon Carbide			
10		halma in aga har	idanina muaaaa?	
19.	Which of the following	neips in age nai	defining process?	
	A. Silver			
	B. Copper			
	C. Platinum			
20	D. Palladium	amparant came-	t io	
∠∪.	pH of non – Eugenol to A. 6 B. 7	emporary cemen C. 8	D. 9	
	л. U D. /	C. 0	D. 9 ****	
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DENTAL MATERIALS

Time: Three hours Maximum: 70 marks

Answer ALL Questions

Answer Section A in the Answer Sheet attached to it 20 marks – 20 minutes to be handed over to the invigilator immediately after 20 minutes

Answer Section B & C in the same answer book

Time: 2 hours 40 minutes **SECTION – B & C** Maximum: 50 marks

SECTION – B

I. Write an Essay on:

 $(1 \times 10 = 10)$

1. Write in detail about the composition, setting reaction Gio compatibility, types and uses of GIC. Add a note on modified GIC.

II. Write short notes on:

 $(3 \times 5 = 15)$

- 2. Dental abrasives. Write classification and uses of various abrasives. (1+2+2)
- 3. Heat treatment of Gold alloys.
- 4. Test for Gio compatibility.

SECTION - C

III. Write an Essay on:

 $(1 \times 10 = 10)$

5. Classify impression materials. Write in detail about the composition, setting reaction, uses, advantages, disadvantages and modifications of irreversible hydrocolloid.

IV. Write short notes on:

 $(3 \times 5 = 15)$

- 6. Chemical stages of Polymerization.
- 7. Types of waxes in dentistry.
- 8. Porosities in dental casting.
