**BDS 203** 

No. of Printed Pages: 07

Following Paper ID and Ro	oll No.	to b	e f	lled	in you	ır A	nsv	ver	Boo	ok.
<b>PAPER ID : 2106</b>	Roll No.	· ·	All		CWOL		Orașile Dajden, Milon	\$100A		

## **BDS Examination Dec. 2016**

(Second Professional)

## DENTALMATERIALS

Time: 3 Hours [Maximum Marks: 70

- **Note:**—(i) Attempt all questions.
  - (ii) All questions are to be answered in the same serial order.
  - necessary.
- 1. Choose the correct answers : and a long to the correct answers

5

- (a) What are the ways to decrease setting time of alginate impression materials:
  - (i) Increase water temperature
  - (ii) Rapid mixing

[ P. T. O.

- (iii) Slow mixing
- (iv) Both (i) and (ii)
- (b) For Master Cast for die fabrication which of the following material is used:
  - (i) Impression plaster
  - (ii) Model plaster
  - (iii) Dental stone
  - (iv) High strength dental stone
- (c) An elastomeric impression material that has an exothermic setting reaction with water as a by product is:
  - (i) Poly Ether
  - (ii) Poly Sulphide way and and and was (8)
  - (iii) Addition silicon
  - (iv) Alginate

- (d) Maximum stress before fracturing is known as:
  - shows how much digners? (i)
  - (ii) Ultimate tensile strength
  - (iii) Yield strength
  - (iv) Hardness
- (e) The first reaction after mixing of water with Alginate is reaction of sodium phosphate with:
  - (i) Insoluble Ca ions a of sometries A (d)
  - (ii) Soluble Ca ions
  - (iii) Soluble K ions
  - (iv) Insoluble K ions
- (f) Type of calcium hemiydrate in dental stone is:
  - (i) Alpha
  - (ii) Beta
  - (iii) Delta
  - (iv) None of the above

[P. T. O.

- (g) Auto polymerized poly Methyl Methacrylate shows how much shrinkage during polymeritzation:
  - (i) 0.2%
  - (ii) 0.5%
  - (e) The first reaction after 10% 0.1 (iii)
  - (iv) 2% milioz lo noilozen zi osaniglA
- (h) Resistance to permanent deformation is known as?
  - (i) Stregth
  - (ii) Moclulus
  - (iii) Yield strength aurolas to equ (i)
  - (iv) Hardness
- (i) Such Back perosity can occur during which of the following:
  - (i) Processing of heat curved aclytics
  - (ii) Casting of alloys

- (iii) Processing of Porcelain
- (iv) All of the above
- (j) Strength of porcelain decreases due to:
  - (i) over fining
  - (ii) Entrapped air bubbles
  - (iii) Sudden cooling
  - (iv) All of the above
- (b) Fill in the blanks:

5

- (i) ZnO igenal is not used for permanent cementation of crown and bridges because of ........
- (ii) Elastomeric impression material which has the highest tear strength is ...........
- (iii) ......defines Young's modulus.
- (iv) Zine is added to amalgam alloys because it makes the amalgam more ......
- (v) Ideal dental stone for models is .......

(c) Select True/False	
-----------------------	--

- (i) Dentine base resin can be used by Heating over flame
- (ii) Alginate is a example of rigid impression material.
- (iii) Galvanic stock can be exprieveed if two disimilar metal fillings (Restoration) are done.
- (iv) Zinc Polycarboxy late cement is biocompatible with the pulp.
- (v) Irrevrsible hydro colloid impression should be poised within one hour.
- 2. (a) Describe physical and mechanical properties of dental materials.
  - (b) Describe mercury toxicity in detail. 5
- 3. (a) Write in brief about glass ionomer cement with indications.
  - (b) Write in brief about different duplicating materials.

4.	Write short notes on:	
	(a) Annealing	5
	(b) Calcination	5
5.	Write short notes on:	
	(a) Tanish and eorrossion	5
	(b) Anterior tooth restorative materials.	5
6.	Classify Investment Materials? Discuss i	n dentail
	phosphate bonded Investment.	10
7.	Define Waxes with its classification and writ	e in detail
	about inlay waxes.	10
	****	