SELECTION-I

Q.1 Long Essay Questions (Any ONE, 1 x 10 marks)
   a) Classify impression materials. Mention desirable properties of an impression material. Write composition, mode of supply, setting reaction, manipulation of irreversible hydrocolloids.
   b) Classify Dental Ceramics. Write its composition. Write a note on metal ceramics.

Q.2 Short Essay Questions (Any THREE, 3 x 5 marks)
   a) Classify dental casting alloys, giving application of each.
   b) Explain denture porosities.
   c) Write a note on the factors controlling the setting time of gypsum products.
   d) Define and classify dental investment materials.

Q.3 Short Answer Questions (Any FIVE, 5 x 2 marks)
   a) Materials used in fabrication of Die.
   b) Classify dental casting defects.
   c) Ductility and malleability.
   d) Define Hardness and enumerate tests for Hardness.
   e) Classify inlay wax and mention its composition.
   f) Ideal requirements of denture base resins.

SELECTION-II

Q.4 Long Essay Questions (Any ONE, 1 x 10 marks)
   a) Classify dental amalgam. Discuss its composition and properties.
   b) Classify dental cements. Enumerate the types of GIC. Discuss biocompatibility, anticariogenic property and chemical adhesion of GIC in detail.

Q.5 Short Essay Questions (Any THREE, 3 x 5 marks)
   a) Shape memory alloy: Its composition, properties and types.
   b) Define Tanish and Corrosion, classify corrosion.
   c) Role of Smear layer in denting bonding.
   d) Annealing and Degassing of gold foil.

Q.6 Short Answer Questions (Any FIVE, 5 x 2 marks)
   a) Three Dimensions of color.
   b) Acid etching.
   c) Rationale of finishing and polishing.
   d) Tempering and Quenching.
   e) Flowable composites.
   f) 18-8 stainless steel.

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SUBJECT: GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS

Day: Monday
Date: 02/11/2015

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 70.

N.B.:
1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Both the sections should be written in **SEPARATE** answer books.

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**SECTION-I**

**Q.1 Long Essay Questions (Any One)** (10)
- a) Classify oral anti-diabetic drugs. Describe mechanism of action, uses and adverse effects of any one group.
- b) Classify drugs used in Peptic Ulcer. Describe mechanism of action, uses and adverse effects of Omeprazole.

**Q.2 Short Essay Questions (Any Three)** (15)
- a) Mention the ingredients of mouth wash and write a note on mouth washes for specific problems in oral cavity.
- b) Define dentrifices. Give various ingredients of dentrifice with its mechanism of action.
- c) Explain the mechanism of action, uses and adverse effects of fluorides.
- d) Define obtundents. Classify obtundents according to their mechanism of action giving examples.

**Q.3 Short Answer Questions (Any Five)** (10)
- a) Define prodrug and give 2 examples.
- b) Mention uses of adrenaline with its route of administration for each use.
- c) Discuss uses and adverse effects of angiotensin converting enzymes inhibitors.
- d) Name 2 anticoagulants and describe mechanism of action of any one.
- e) Define teratogenicity and enlist 2 teratogenic drugs.
- f) Rationale for use of salbutamol in bronchial asthma.

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**SECTION-II**

**Q.4 Long Essay Questions (Any One)** (10)
- a) Classify local anaesthetics. Describe their mechanism of action and techniques of local anaesthesia.
- b) Classify Tetracyclines. Mention their mechanism of action, adverse effects and uses.

**Q.5 Short Essay Questions (Any Three)** (15)
- a) Mention uses of Adrenaline with rationale.
- b) Describe mechanism of action, uses and adverse effects of Ibuprofen.
- c) Discuss uses and adverse effects of Phenytoin.
- d) Mention differences between peripherally and centrally acting skeletal muscle relaxants.

**Q.6 Short Answer Questions (Any Five)** (10)
- a) Role of propranolol in thyrotoxicosis.
- b) Rationale for tapering corticosteroid dose before stopping them.
- c) Uses of H1 antihistaminics.
- d) Mechanism of action of Cotrimoxazole.
- e) Role of adding glucose in oral rehydration solution.
- f) Use of clavulanic acid with Amoxicillin.
KAVERI-II (2008 COURSE) : WINTER - 2015
SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY

Day : Wednesday  Time : 09.00 AM TO 12.00 NOON
Date : 04/11/2015  Max. Marks : 70.

N.B.:
1) All questions are COMPULSORY.
2) Answer both the sections should be written in SEPARATE answer books.
3) Figures to the RIGHT indicate full marks.
4) Draw neat labeled diagrams WHEREVER necessary.

SECTION-I

Q.1 Define metastasis. Mention different routes of metastasis and describe its mechanism. (10)

OR

Define thrombosis. Discuss pathophysiology, morphology and clinical effects of thrombosis.

Q.2 Write short notes on (Any Three) (15)
   a) Define necrosis. Give 2 examples of each type of necrosis
   b) Describe laboratory diagnosis of iron deficiency anemia
   c) Describe complications of diabetes mellitus
   d) Describe etiology, gross and microscopic appearance of myocardial infarction

Q.3 Write short answers on (Any Five) (10)
   a) Ameloblastoma
   b) Factors delaying wound healing
   c) Name any 5 chemical carcinogens and tumours caused by them
   d) Enlist 3 differences between dry gangrene and wet gangrene
   e) Clinical features and peripheral blood picture in acute leukaemia
   f) Phagocytosis

SECTION-II

Q.4 Describe the morphology, cultural characteristics and pathogenicity of Mycobacterium tuberculosis. Describe the laboratory diagnosis of Pulmonary tuberculosis. How would you immunize a person against tuberculosis? (10)

OR

Define viruses. Classify them with suitable examples. Describe the various methods for cultivation of viruses and detection of growth of viruses in cell culture.

Q.5 Write short notes on (Any Three) (15)
   a) Write differences between Streptococcus viridans and Streptococcus pneumoniae.
   b) Describe the principle and various methods of moist heat sterilization.
   c) Mention various Antigen-Antibody reactions. Describe the principle and applications of ELISA with suitable example.
   d) Describe the morphology and pathogenicity of Treponema pallidum. Write laboratory diagnosis of Syphilis.

Q.6 Write short answers on (Any Five) (10)
   a) Write the infective form and mode of entry of Plasmodium Species.
   b) Enumerate 4 fungi causing deep mycosis.
   c) Write the function and methods of demonstration of spore.
   d) What is transduction?
   e) Enumerate 4 viral vaccines.
   f) Nagler reaction.