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MANIPAL UNIVERSITY

SECOND BDS DEGREE EXAMINATION – NOV/DEC 2014

SUBJECT: DENTAL MATERIALS (ESSAY)
(NEW REGULATION)

Monday, December 01, 2014

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

1. Classify dental ceramics. Write about metal ceramic bonding. Add a note on glazing of ceramic restorations.
(2+4+4 = 10 marks)

2. Classify gypsum products. Describe the manufacturing of gypsum products. Write a note on measurement of setting time in gypsum products.
(2+4+4 = 10 marks)

3. **Write short notes on:**
 - 3A. Plasticizers
 - 3B. Phase diagram
 - 3C. Miracle mix
 - 3D. Composition and uses of impression compound
 - 3E. Creep in dental amalgam
 - 3F. Microhardness testers
 - 3G. Materials used for dental implants
 - 3H. Acid etch technique
 - 3I. Factors affecting rate of cutting in dental burs
 - 3J. Localized shrinkage porosity

(4 marks × 10 = 40 marks)



MANIPAL UNIVERSITY

SECOND BDS DEGREE EXAMINATION – NOVEMBER/DECEMBER 2014

SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)
(NEW REGULATION)

Friday, November 28, 2014

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

- ✍ Answer all the questions. Answer section A & B in TWO separate answer books.
- ✍ Write brief, clear, relevant and legible answers. Illustrate your answers with diagrams, flow charts wherever appropriate.

SECTION "A": GENERAL PATHOLOGY (30 MARKS)

1. Define edema. List pathophysiologic categories of edema and describe the mechanism with the help of a flow chart. Tabulate differences between transudate and exudate.
(2+5+3 = 10 marks)
2. Write short notes on:
- 2A. Describe the morphology of dystrophic calcification. Give 4 examples.
- 2B. Complications and fate of thrombus.
- 2C. Pathogenesis of tuberculosis with diagram.
- 2D. Lab diagnosis of Iron deficiency anemia.
- 2E. Mention the steps involved in chemical carcinogenesis. Give 4 examples.
(4 marks × 5 = 20 marks)

SECTION "B": MICROBIOLOGY (30 MARKS)

3. Describe the pathogenesis, clinical findings and laboratory diagnosis of Tetanus. Add a note on prophylaxis of Tetanus.
(3+2+2+3 = 10 marks)
4. Write short notes on:
- 4A. Bacterial flagella
- 4B. Acquired immunity
- 4C. Pathogenesis and clinical features of Measles
- 4D. Autoimmunity
- 4E. Life cycle of *Plasmodium falciparum*
(4 marks × 5 = 20 marks)



MANIPAL UNIVERSITY

SECOND BDS DEGREE EXAMINATION – NOVEMBER/DECEMBER 2014
SUBJECT: GENERAL AND DENTAL PHARMACOLOGY & THERAPEUTICS (ESSAY)
(NEW REGULATION)

Saturday, November 29, 2014

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

1. Classify antiretroviral drugs giving suitable examples. Mention two antiretroviral regimens. Add a note on post-exposure prophylaxis.
(6+2+2 = 10 marks)
2. Explain the various techniques of local anaesthesia used in dentistry. Mention the adverse effects of local anaesthetics.
(9+1 = 10 marks)
3. **Write briefly on:**
 - 3A. Advantages and limitations of opioids as analgesics
 - 3B. Drug allergy
 - 3C. Antimuscarinic adverse effects
 - 3D. Mention three drugs of different groups used in angina pectoris. Write the mechanism of action and adverse effects of any one.
 - 3E. Local haemostatics
 - 3F. Iron preparations
 - 3G. Mechanism of action of metformin
 - 3H. Sublingual route of drug administration
 - 3I. Therapeutic uses of beta-blockers
 - 3J. Explain three mechanisms by which anti-emetics act. Mention one example for each mechanism. Write the adverse effects of any one.
(4 marks × 10 = 40 marks)

