

ROYAL CIVIL SERVICE COMMISSION
BHUTAN CIVIL SERVICE EXAMINATION (BCSE) 2012
EXAMINATION CATEGORY: TECHNICAL

PAPER III: SUBJECT SPECIALIZATION PAPER for DENTISTRY

Date	: 14 October 2012
Total Marks	: 100
Examination Time	: 150 minutes (2.5 hours)
Reading Time	: 15 Minutes (prior to examination time)

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. Write your Roll Number clearly on the Answer Booklet in the space provided.
2. The first 15 minutes is being provided to check the number of pages, printing errors, clarify doubts and to read the instructions. You are NOT PERMITTED TO WRITE during this time.
3. Use either Blue or Black ink pen or ball point pen for the written part and Pencils for the sketches and drawings.
4. All answers should be written on the Answer Booklet provided. Candidates are not allowed to write anything on the question paper or any other materials.
5. All answers must be labeled with appropriate question numbers (Section, Question and sub-Question Numbers wherever applicable). Unlabelled answers will not be assessed.
6. This Paper is divided into two sections-namely SECTION A and SECTION B.
7. SECTION A consists of two parts: Part I and Part II.

Part I consists of 30 Multiple-Choice Questions carrying one (1) mark each and is compulsory. The answer of your choice should be clearly written in whole along with the question and option number on your answer booklet. Eg. 31(c).

Part II consists of four (4) short answer questions of five (5) marks each and all questions are compulsory. Mark for each sub-question is indicated in the brackets.

8. SECTION B consists of two Case Studies. Choose only ONE case study and answer the questions under your choice. Each case study carries fifty (50) marks in total. Mark for each sub-question is indicated in the brackets.
9. This Paper consists of TEN (10) pages including this Instruction page.

Section A (50 marks)

Answer ALL questions in this section.

Part I: Multiple choice questions. The answer of your choice should be clearly written in whole along with the question number and option number on your answer booklet. Each question is worth 1 mark (30 marks).

1. Which of the following muscle is responsible for “grinning of face”
 - a) Risorius
 - b) Mentalis
 - c) Platysma
 - d) Zygomaticus major

2. Contraction of one of the following muscles results in retraction of the mandible
 - a) Temporalis
 - b) Lateral pterygoid
 - c) Buccinator
 - d) Platysma

3. The nerve supplying the submandibular gland is
 - a) V
 - b) VII
 - c) IX
 - d) XII

4. In case of vertical fracture passing through mental foramen, the anterior segment of mandible moves
 - a) Inferiorly
 - b) Superiorly
 - c) Inferiorly and posteriorly
 - d) Superiorly and posteriorly

5. Facial nerve supplies
 - a) All muscles of facial expression
 - b) All muscles of facial expression excluding levator palpebrae superioris
 - c) All muscles of facial expression and mastication
 - d) None of the above

6. Which of the following is predominantly mucous

- a) Parotid gland
- b) Submandibular gland
- c) Sublingual gland
- d) Von Ebner's gland

7. Waldeyer's ring consists of

- a) Palatine tonsil
- b) Adenoid
- c) Lingual tonsil
- d) All of the above

8. Impulses of taste are carried to brain through

- a) 7th, 9th, 10th cranial nerves
- b) 5th, 9th, 10th cranial nerves
- c) 5th, 7th, 9th cranial nerves
- d) 7th, 9th, 12th cranial nerves

9. Painful stimuli from teeth are transmitted to

- a) Temporal gyrus
- b) Medulla oblongata
- c) Precentral gyrus
- d) Post central gyrus

10. Which of the following is not a true type of connective tissue

- a) Collagen
- b) Chitin
- c) Reticulin
- d) Elastin

11. Which among them is not a part of haemoglobin

- a) Magnesium
- b) Histidine
- c) Pyrrole ring
- d) Iron

12. A vitamin that functions as a reducing agent is

- a) Vitamin A
- b) Vitamin B₁₂
- c) Vitamin C
- d) Vitamin D

13. Oedema is formed when

- a) Tissue osmotic pressure is lower than that of plasma colloidal osmotic pressure
- b) Increased permeability of capillaries with increased blood pressure in capillaries
- c) The blood pressure in the capillaries is reduced with the increase in plasma colloidal osmotic pressure
- d) None of the above

14. If one of the parents is Rh positive and the other Rh negative, the child will be

- a) Rh negative
- b) Rh positive
- c) Rh neutral
- d) Rh central

15. An adult has a respiratory rate of 15/min. Tidal volume is 400cc. Anatomic dead space is 100cc. Respiratory minute ventilation or volume is

- a) 1,500 cc
- b) 4,500 cc
- c) 6,000 cc
- d) 7,500 cc

16. During pregnancy, which of the following organ is not enlarged

- a) Brain
- b) Thyroid
- c) Parathyroid
- d) Adrenal cortex

17. Gram staining is useful in

- a) Grouping of bacteria
- b) Identifying mycobacterium
- c) Demonstrating motility of bacteria
- d) Demonstrating the size of bacteria

