

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

PAPER III: SUBJECT SPECIALIZATION PAPER for PHYSIOTHERAPY

Date	:14 October 2012
Total Marks	:100
Examination Time	:2.5 Hours
Reading Time	:15 Minutes (Prior to Exam. Time)

INSTRUCTIONS

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.
5. This Question Booklet consists of **nine pages** including this page. It is divided into two sections - namely SECTION A and SECTION B.
6. **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.
Part II consists of four (4) short answer questions of five (5) marks each and all questions are **compulsory**.
7. **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.

SECTION A

Part 1: Multiple choice questions.

Choose the most appropriate answer. (30 questions X 1 mark = 30 marks)

1. The frictional resistance offered by the circulatory system to the flow of blood is termed as:
 - a. Pulse pressure
 - b. Blood pressure
 - c. Systolic pressure
 - d. Peripheral resistance

2. The amount of air remaining in the lung after quiet expiration:
 - a. Functional residual capacity
 - b. Total lung capacity
 - c. Vital capacity
 - d. Inspiratory capacity.

3. Which of the following conveys the sensation of warmth?
 - a. Meissner's corpuscles
 - b. Ruffini's end bulb
 - c. Krause's end bulb
 - d. Pacinian corpuscles

4. The centre of righting reflexes is situated in _____ :
 - a. Raphe nucleus
 - b. Clarke's nucleus
 - c. Red nucleus
 - d. Medulla oblongata

5. What is the oxygen saturation in the blood below which signs of oxygen deficiency develop?
 - a. 56%
 - b. 66%
 - c. 85%
 - d. 90%

6. Peripheral neuritis is caused by the deficiency of vitamin:
 - a. D
 - b. E
 - c. B₁
 - d. B₂

7. The term used to describe difficulty in reading:
 - a. Dysgraphia
 - b. Paraphasia
 - c. Dyslexia
 - d. Dyspraxia

8. Normal control of head and trunk implies:
 - a. Extension in prone, flexion in supine and extension in side lying.
 - b. Flexion in prone, extension in supine and lateral flexion in side lying.
 - c. Extension in prone, flexion in supine and lateral flexion in side lying.
 - d. Flexion in prone, flexion in supine and extension in side lying.

9. A type of cerebral palsy where there is a damage to the extrapyramidal system:
 - a. Spastic diplegia
 - b. Hemiplegic cerebral palsy
 - c. Ataxic cerebral palsy
 - d. Athetotic cerebral palsy.

10. All of the following are the late complications of fracture EXCEPT:
 - a. Non union
 - b. Tardy nerve palsy
 - c. Volkman's ischemia
 - d. Avascular necrosis.

11. Conduction burn is one of the types of _____ burns.
 - a. Thermal burn
 - b. Electrical burn
 - c. Radiation burn
 - d. Chemical burn

12. Parkinson's disease is a state characterized pharmacologically by:
- Degeneration of nigrostriatal dopaminergic projections and preservation of striatal cholinergic interneurons
 - Degeneration of GABA and cholinergic neurons and preservation of dopaminergic connections
 - Degeneration of cholinergic neurons and dopaminergic projections
 - Increased dopaminergic activity along with increased cholinergic activity.
13. The ability of a tissue to absorb energy within the plastic range without breaking is called _____
- Resilience
 - Creep
 - Toughness
 - Yield strength
14. How many weeks gestation (fetal development) is considered normal for a full term baby?
- 30 weeks
 - 32 weeks
 - 36 weeks
 - 37 weeks
15. All of the following cardiovascular and pulmonary effects are true for SUPINE position EXCEPT:
- Decrease chestwall AP diameter
 - Pooling of secretions to the posterior lung zone
 - Increases FRC
 - Increases central blood volume
16. One of the benefit of keeping an infant in side-lying position in the early stages of life is
- Improves head control
 - Better view of the surrounding
 - Shapes the head
 - Encourages hands to be brought together in midline
17. Which of the following is not an indication of resistance exercises?
- Increase strength
 - Increase speed
 - Increase endurance
 - Increase power

