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རྒྱལ་གཞུང་གི་གཞི་གཞུག་ལྷན་ཚོགས།



**ROYAL GOVERNMENT OF BHUTAN
ROYAL CIVIL SERVICE COMMISSION**

**BHUTAN CIVIL SERVICE EXAMINATION 2012
MAIN EXAMINATION
(OCTOBER 13, 2012)**

**EXAMINATION CATEGORY : TECHNICAL
PAPER II : GENERAL SUBJECT KNOWLEDGE
for MEDICAL & HEALTH GROUP**

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

PAPER II: GENERAL SUBJECT KNOWLEDGE for MEDICAL & HEALTH GROUP

Date	: 13 October 2012
Total Marks	: 100
Examination Time	: 90 minutes (1.5 hours)
Reading Time	: 15 minutes (prior to examination time)

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- You have 15 minutes (prior to writing time) to read the instructions, clarify doubts, make sure that you have all the pages, and check for any printing errors. DO NOT write during this time.
- This paper consists of **TWO Parts – Part I and Part II. All questions are compulsory.**
 - ✓ **Part I** consists of **70 Multiple Choice Questions** of 1 (one) mark each; and
 - ✓ **Part II** consists of **10 Short Answer Questions** of 3 (three) marks each.
- While answering the multiple choice questions, write only the letter of the correct answer chosen against the question number, clearly and legibly. E.g. 71(c). Any double writing or smudgy answers shall not be evaluated.
- All answers must be written in the answer booklet provided to you. You will not be given any marks for answers written other than in the answer booklet. Ask for additional answer booklets if required.
- Ensure that you write your roll number in the space provided in the answer booklet. In case you take additional answer booklet, make sure that you write your roll number in the additional answer booklet as well.
- This paper has 15 (fifteen) printed pages including this cover page.

PART I : MULTIPLE CHOICE QUESTIONS

Choose the correct answer and write down the letter of the correct answer chosen in the Answer Sheet against the question number. E.g. 71(c). Each question carries ONE mark.

1. The myofilaments of muscles consist primarily of two proteins. These two proteins are called
 - a) Actin and Myosin
 - b) Progesterone and Testosterone
 - c) Progesterone and Estrogen
 - d) Actin and Pectin

2. Compared with the current in the white-hot filament of a common lamp, the current in the connecting wire is:
 - a) Less
 - b) The same
 - c) More
 - d) None of above

3. A step-up transformer in an electrical circuit can step up
 - a) Voltage
 - b) Energy
 - c) Both of these
 - d) None of these

4. Research indicates that cigarette smoking results in the following conditions..
 - a) Whooping cough
 - b) Cardiovascular stress
 - c) Hepatitis
 - d) Measles

5. The equation $E = mc^2$ indicates that energy
 - a) Equals mass moving at the speed of light squared
 - b) Equals moving mass
 - c) Is fundamentally different from mass
 - d) and mass are closely related

