



First Year M.B.B.S. Summer-2017 Supplementary Examination PHYSIOLOGY – I

Total Duration : Section A + B + C = 2½ Hours

Section B & C Marks : 40

SECTION – B & SECTION – C

- Instructions:**
- 1) Use **blue/black** ball point pen only.
 - 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) **All** questions are **compulsory**.
 - 4) The number to the **right** indicates **full** marks.
 - 5) Draw diagrams **wherever** necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) **Use** a common answerbook for Section **B** and **C**.

SECTION – B SAQ (24 Marks)

2. Short answer question (**any six** out of seven) : (6×4=24)
- a) Write a note on anti diuretic hormone.
 - b) Write the classification of oral contraceptive pills and the mechanism of action of combined oral contraceptive pills.
 - c) Emptying of gall bladder.
 - d) Describe the various changes occurring during acclimatization at high altitude.
 - e) Factors regulating cardiac output.
 - f) Regulation of gastric secretion.
 - g) Enumerate the mechanisms for heat loss. Add a note on induced hypothermia.

SECTION – C LAQ (16 Marks)

3. Long answer question (**any two** out of three) : (2×8=16)
- a) Define arterial blood pressure. Explain long term regulation of blood pressure with a note on hypertension.
 - b) Name the hormones of adrenal cortex. Describe the functions of Aldosterone. How Aldosterone secretion is regulated ?
 - c) What is lung compliance ? What are the factors regulating lung compliance ? Write a note on hyaline membrane disease.