

D**r. . MEDICAL****[MBBS 0825]****AUGUST 2025****Sub. Code: 7054**

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2024-2025)

FIRST PROFESSIONAL – (CBME)

PAPER II – PHYSIOLOGY

Q.P. Code: 527054

Time: Three hours**Maximum: 100 Marks (80 Theory + 20 MCQs)**

Answer All Questions

Draw neat labeled diagrams wherever necessary

I. Essay: **(1 x 10 = 10)**

1. A 25 year old healthy male tried to hold his breath as long as possible. But within a minute he was unable to hold his breath any longer and gave up.
 - a) What is breaking point? (1)
 - b) What are chemoreceptors? (1)
 - c) Explain in detail about the chemical regulation of respiration. (6)
 - d) What is Cheyne-Stokes breathing? (2)

II. Reasoning out short notes: **(2 x 5 = 10)**

1. Patients in hypovolemic shock have cold extremities. Explain.
2. Shape of oxygen-hemoglobin dissociation curve is sigmoid. Explain.

III. Write short notes on: **(10 x 6 = 60)**

1. Effect of 'g' forces on the body.
2. Surfactant.
3. Aqueous humor.
4. Triple response.
5. Hyperbaric oxygen therapy.
6. Pain pathway. Add a note on Hyperalgesia.
7. Conditioned reflex.
8. Blood-brain barrier
9. Draw a normal Lead II ECG and describe the waves, intervals and segment of ECG.
10. Autoregulation of cerebral blood flow.
