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BRAINWARE UNIVERSITY

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Barasat, Kolkata -700125

Term End Examination 2025-2026

Programme – B.Sc.(CCT)-2021/B.Sc.(CCT)-2022/B.Sc.(CCT)-2023/B.Sc.(CCT)-2024

Course Name – Applied Anatomy and Physiology Related to Critical Care

Course Code - BCCTC301

(Semester III)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

(i) Select the primary pacemaker of the heart.

a) AV node

c) Purkinje fibers

b) SA node

d) Bundle of His

(ii) State the normal range of arterial blood pH.

a) 6.5-7.5

c) 7.35-7.45

b) 5.5-6.5

d) 7.25-7.35

(iii) Identify the nerve most commonly damaged in anosmia.

a) Optic nerve

c) Vestibulocochlear nerve

b) Olfactory nerve

d) Trigeminal nerve

(iv) Select the correct Pulmonary Arterial Systolic pressure.

a) 25mmhg

c) 35mmhg

b) 70mmhg

d) 15mmhg

(v) Select the normal minute volume among the following:

a) $500 \times 12 = 6,000$ mL.

c) $500 + 3,300 = 3,800$ mL

b) $3,300 + 500 + 1,000 = 4,800$ mL.

d) $1,000 + 1,200 = 2,200$ mL

(vi) Select the correct term for Normal respiratory pattern.

a) polypnea

c) eupnea

b) apnea

d) dysapnea

(vii) Identify the correct statement for Physiological shunting in lungs.

a) Pressure gradient existing in between the visceral and parietal layers of pleura.

c) Respiratory protective reflex that prevents entrance of food particles into the air passage during swallowing

b) Protective reflex and it is caused by irritation of the respiratory tract

d) A diversion of blood flow through which the venous blood gets mixed with arterial blood.

