

- a) 5l
c) 4.9l
- b) 5ml
d) 4.8ml
- (viii) Identify the reason why the SA node (sino-atrial node) is the natural pacemaker is
- a) generates an action potential which is more in size than other parts of the conducting system
c) located in the right atrium
- b) only part of the conducting system generating impulse
d) generates the highest number of action potentials in the conducting system
- (ix) Write the condition where plaque builds up on the inside of arteries.
- a) Arthrocentesis
c) Arthritis
- b) Arthralgia
d) Atherosclerosis
- (x) Who carries deoxygenated blood to the lungs from the right ventricle.
- a) Pulmonary artery
c) Aorta
- b) Pulmonary vein
d) None of the above
- (xi) Identify the possible breathing rate (per min) in an adult human.
- a) 78
c) 72
- b) 15
d) 120
- (xii) Write the name of organs that functions as an air conditioner?
- a) Larynx
c) Nasal chambers
- b) Pharynx
d) All of the above
- (xiii) Select the name of yellow pigment that is formed after dead blood cells are processed in the liver. It is also primarily responsible for the yellow colour of urine?
- a) Zeaxanthin
c) Carotenoids
- b) Urochrome
d) None of the above
- (xiv) Write the activity of Atrial Natriuretic peptide (ANP)?
- a) inhibits aldosterone and ADH secretion
c) decreases reabsorption of sodium
- b) decreases reabsorption of water
d) all of these
- (xv) Justify the following parts of the brain regulates the respiratory process?
- a) The vagus nerve
c) Medulla oblongata
- b) Cerebral peduncle
d) Cerebellum

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Explain the factors affecting blood pressure (3)
3. What is the function of hemoglobin? (3)
4. Explain the process of body temperature regulation. (3)
5. Chart the composition of blood. (3)
6. Report the role of membrane in transport and communication. (3)

OR

Justify, how thrombocytes necessary for blood coagulation? (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain the process of blood coagulation (5)
8. Explain cardiac cycle. (5)
9. Define the term - TV,RV,IRV,EC & ERV. (5)
10. Distinguish between neural and chemical control of breathing. (5)
11. Classify different types of teeth (5)

OR

Distinguish between pulse pressure and mean pressure. (5)
12. Justify considering Rh factor in pregnancy. (5)

OR

Compare among different waves in ECG. (5)
