

STD 9

QUESTION 1

A) Name the following (5)

- i) xylem and phloem together make up
- ii) blood vessel leaving the heart containing deoxygenated blood
- iii) Type of germination in bean seed
- iv) First vertebra
- v) Type of muscle in heart

B) Give one difference between the following pairs on the basis of what is written in brackets(5)

- i) respiration and photosynthesis(products formed)
- ii) respiration and burning(temperature it takes place)
- iii) cell wall and cell membrane(content)
- iv) striated and unstriated muscles (function)
- v) blood and lymph(content)

Question 2

A) Match the following(5)

squamous	trachea
scapula	thigh bone
ciliated epithelium	fluid connective tissue
glandular epithelium	brain
femur	shoulder bone
clavicle	breast bone
sternum	wrist bone
caepel	collar bone
nerve cell	inner lining of cheek
blood	liver

B) With respect to the respiratory system in man answer the following questions(5)

- i) Why is the alveolus single layered
- ii) What is the importance of mucous cells in the alveolus?
- iii) Give one difference between inspired air and expired air
- iv) Give function of the C shaped cartilage in the trachea
- v) Explain the difference between hypoxia and asphyxiation

Question 3

a) Explain the following terms(4)

- i) Vasodialation
- ii) Anaerobic respiration
- iii) Germination
- iv) Leucoderma
- v) Seedling

B) Drawn below is a diagram of the maize grain (3)

i) Name parts 1 and 2

ii) Give the function of parts 3 and 5

C) Draw a neat diagram of a neuron, Label any 4 parts(3)

Question 4

A) With respect to respiration in man, answer the questions that follow(5)

- i) Name the 2 phases of the respiratory cycle
- ii) Why is the left lung slightly smaller than the right lung?
- iii) Why does the trachea have ciliated epithelium?
- iv) Give the importance of hair in the nostrils?
- v) Give the difference between the end products of aerobic and anaerobic respiration in animals,

B) Give reasons for the following statements(5)

- i) Seeds should not be sown deep
- ii) The stomach is pushed outwards when we breathe in
- iii) We should breathe in through our nose only
- iv) Maize is known as a grain
- v) We experience pain in our leg muscles when we over exercise