



**Part B**

**Answer all questions**

**Each answer should not exceed 400 words or two Pages**

**5X 6 = 30**

- 11.a Write the functions and composition of blood. CO1 K2  
or  
11.b. Write the respiratory volumes. CO2 K3
12. a Explain the types of muscular contractions. CO1 K2  
or  
12. b. Write about muscle imbalance. CO2 K2
- 13.a. Write about the functions liver. CO3 K3  
or  
13.b. What is stroke volume and cardiac output? CO2 K3
14. a. Explain the concept of recovery oxygen and second wind. CO3 K4  
or  
14. b. What is internal and external respiration? CO2 K3
15. a. Briefly explain the role of muscular contraction in physical activity. CO2 K3  
or  
15.b. Write the functions of Circulatory system. CO2 K3

**Part C**

**Answer all questions**

**Each answer should not exceed 800 words or four pages**

**5X12= 30**

- 16.a. Draw a structure and explain the function of the cell. CO2 K2  
or  
16.b. Explain the structure and function of the kidney. CO3 K3
- 17.a. Explain about the location and function of Thyroid gland. CO3 K4  
or  
17.b. Explain the various types of tissues. CO2 K2
18. a Enumerate the respiratory system and mechanism of respiration. CO2 K3  
or  
18. b. Explain the structure of the heart with a neat diagram. CO2 K3
- 19.a. Explain about the circulatory system CO2 K3  
or  
19. b Explain the Sliding filament theory. CO2 K3
20. a. Discuss about the effect of exercise on respiratory system. CO2 K3  
or  
20.b. Discuss about the effect of exercise on muscular system CO2 K3