



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Biological Sciences

Class: XI Date: 20.3.2021

## Neural Control and coordination

F.M:15

### WORKSHEET – 73

(1x15=15)

i) Which characteristics of muscles help in locomotion?

- (1) Pulsation (2) **Contractility** (3) Non elasticity (4) All of these

ii) Which myofibril is observed in I band?

- (1) Thick (2) **Thin** (3) A and B both (4) None

iii) Which is structural and functional unit of muscle fibre?

- (1) Myofibrils (2) **Sarcomere** (3) Sarcolemma (4) Muscle fibre

iv) Thin filaments are made of \_\_\_\_\_ structure.

- (1) Monomer G-actin (2) Tropomyosin (3) F actin (4) **A and C both**

v) Which is complex, small and globular protein?

- (1) Tropomyosin (2) **Troponin** (3) Meromyosin (4) F actin

vi) Of the following, which one is globular protein?

- (1) Troponin (2) Monomer G -actin (3) **A and B both** (4) None of these

vii) Who forms the bridge at the open activated site of the filament?

- (1) **Troponin** (2) Tropomyosin (3) Head of myosin (4) Tail of myosin

viii) Where is location of troponin in actin filament of striated muscle?

- (1) On tropomyosin (2) F-actin (3) **G-actin** (4) All of the above

ix) Which substance is secreted at the neuromuscular junction when the impulse reach there?

- (1) Acetyl esterase (2) **Acetyl choline** (3) Acetic acid (4) Oxytocin

x) Sarcomere shortens when (P) linked within actin is also pulled towards \_\_\_\_\_ inner side

- (1) M-line (2) H-line (3) A-line (4) **Z-line**

xi) Relaxation of the sarcoplasm is due to decrease in concentration of \_\_\_\_\_

- (1) **Ca<sup>2+</sup>** (2) Mg<sup>2+</sup> (3) Cl<sup>-</sup> (4) Na<sup>+</sup>

xii) Accumulation of muscle fibre is due to

- (1) Less activity of muscles (2) **More activity of muscles** (3) Inactivation of muscles  
(4) Non elasticity of muscle fibres.

xiii) Which action is important during muscle contraction?

- (1) Bridge formation (2) Bridge not formed (3) Bridge formed and stabilizes  
(4) **Bridge formed and breakdown**

xiv) What is improper for red muscles?

- (1) **It stores more amount of CO<sub>2</sub>** (2) It Has large number of mitochondria (3) It has more amount of myoglobin (4) Stores more O<sub>2</sub> and ATP formation

xv) Which muscles obtain large amount of blood supply ?

- (1) Visceral muscle (2) Skeletal muscle (3) **Cardiac muscle** (4) Non-striated muscle.