



# ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD

**Class : 10****Subject : LIFE SCIENCE****Term : FIRST TERM****Max Marks : 60****Q 1 :** The sprouting of seeds of plants are carried out by \_\_\_\_\_ signalling**Marks : 1**

1. Chloroplast
2. Cryptochrome
- 3. Phytochrome**
4. Phototropin

 ( This Answer is Correct )**Q 2 :** The closing of leaves of pitcher plant is a type of \_\_\_\_\_ movement.**Marks : 1**

1. Photonastic
- 2. Chemonastic**
3. Chemotropic
4. Seismonastic

 ( This Answer is Correct )**Q 3 :** Growth of tendril in a spring -like manner is referred to as**Marks : 1**

1. Thigmotropism
2. Circinate vernation
- 3. Circumnutation**
4. Morphogenesis

 ( This Answer is Correct )**Q 4 :** Which of the following is a hypothetical hormone?**Marks : 1**

1. Cytokinin
2. Ethylene
3. Gibberellin
- 4. Vernalin**

 ( This Answer is Correct )**Q 5 :** The phytohormone which is basic in nature is**Marks : 1**

1. Auxin
- 2. Cytokinin**
3. Gibberellin
4. ABA

 ( This Answer is Correct )

**Q 6 :** Which of the following is photolabile?

**Marks :** 1

1. Gibberellin
2. Cytokinin
- 3. Auxin**
4. ABA

( This Answer is Correct )

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**Q 7 :** Killing of weed plants is a function of

**Marks :** 1

1. IAA
2. IBA
- 3. 2,4-D**
4. ABA

( This Answer is Correct )

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**Q 8 :** Which of the following hormones is chemically 'aminopurine'?

**Marks :** 1

1. Auxin
- 2. Cytokinin**
3. Ethylene
4. ABA

( This Answer is Correct )

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**Q 9 :** Which of the following hormones result in the contraction of erector pili?

**Marks :** 1

- 1. Epinephrine**
2. Nor-epinephrine
3. Thyroxin
4. Calcitonin

( This Answer is Correct )

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**Q 10 :** Which of the following functions is not performed by ADH?

**Marks :** 1

1. Increase in blood volume
2. Raising blood pressure
3. Stimulate kidneys to retain water
- 4. Raises blood glucose**

( This Answer is Correct )

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**Q 11 :** In females, the target gland of Gonadotropic hormone is

**Marks :** 1

1. Pituitary
2. Hypothalamus
- 3. Ovary**
4. All of the above

( This Answer is Correct )

**Q 12 :** Oxytocin and ADH are stored in

**Marks :** 1

1. Hypothalamus
2. Anterior Pituitary
3. Gonads
- 4. Posterior Pituitary**

( This Answer is Correct )

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**Q 13 :** Fight-or-flight' response does not lead to increase in

**Marks :** 1

1. Heart rate
2. Breathing rate
- 3. Blood glucose**
4. Blood pressure

( This Answer is Correct )

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**Q 14 :** Which of the following hormones maintain the circadian clock of the body ?

**Marks :** 1

1. Thymosin
2. Oxytocin
- 3. Melatonin**
4. Insulin

( This Answer is Correct )

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**Q 15 :** Polydipsia' or excessive thirst is a symptom of -

**Marks :** 1

1. Diabetes mellitus
- 2. Diabetes insipidus**
3. Diabetes mellitus and Diabetes Insipidus
4. None of the above

( This Answer is Correct )

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**Q 16 :** Which of the following is a type of non-neuronal cell?

**Marks :** 1

1. Microglia
2. Oligodendrocytes
3. Astrocytes
- 4. All of the above**

( This Answer is Correct )

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**Q 17 :** Myelin sheath is formed of

**Marks :** 1

- 1. Protein and phospholipid**
2. Protein and glycolipid
3. Glycoprotein and fatty acids
4. Only Polysaccharides

( This Answer is Correct )

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**Q 18 :** Trigeminal nerve is

**Marks :** 1

1. Sensory nerve
2. Motor nerve
- 3. Mixed nerve**
4. Interneuron

( This Answer is Correct )

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**Q 19 :** Which of the following is not a part of the brain stem?

**Marks :** 1

1. Midbrain
- 2. Cerebellum**
3. Pons
4. Medulla oblongata

( This Answer is Correct )

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**Q 20 :** The brain is protected from movements and stretching and breaking of blood vessels by

**Marks :** 1

- 1. Duramater**
2. Arachnoid
3. Piamater
4. Cranium

( This Answer is Correct )

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**Q 21 :** The cerebrospinal fluid in the brain is present in

**Marks :** 1

1. Cranium
2. Cerebral cortex
- 3. Ventricles**
4. Hypothalamus

( This Answer is Correct )

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**Q 22 :** Which of the following organisms have binocular vision?

**Marks :** 1

1. Lizards
2. Horses
3. Bats
- 4. Owls**

( This Answer is Correct )

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**Q 23 :** Which part of the eye is called 'window of the eye'?

**Marks :** 1

1. Pupil
- 2. Cornea**
3. Iris
4. Retina

( This Answer is Correct )

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**Q 24 :** If we have only cone cells and no rod cells in our eyes then **Marks : 1**

- 1 . We will not see colour
- 2 . We will not see clearly during the day
- 3 . We will not see clearly at night**  ( This Answer is Correct )
- 4 . We will not have vision

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**Q 25 :** Supraspinatus is an example of **Marks : 1**

- 1 . Adductor muscle
- 2 . Abductor muscle**  ( This Answer is Correct )
- 3 . Extensor muscle
- 4 . Flexor muscle

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**Q 26 :** During mitotic prophase chromosomes appear as - **Marks : 1**

- 1 . Chromomeres
- 2 . Chromonema**  ( This Answer is Correct )
- 3 . Chromatin
- 4 . None of the above

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**Q 27 :** The centrosomes duplicate during **Marks : 1**

- 1 . Prophase
- 2 . G1 phase
- 3 . G2 phase
- 4 . S-phase**  ( This Answer is Correct )

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**Q 28 :** The complementary sequence of DNA strand ATTGGCC will be **Marks : 1**

- 1 . TAAGGCC
- 2 . ATTCCGG
- 3 . TATCCGG
- 4 . TAACCGG**  ( This Answer is Correct )

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**Q 29 :** Which of the following organisms is heterosporous? **Marks : 1**

- 1 . Lycopodium
- 2 . Selaginella**  ( This Answer is Correct )
- 3 . Riccia
- 4 . Dryopteris

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**Q 30 :** The balance between auxin and cytokinin in plants is responsible for **Marks : 1**

1 . Morphogenesis  ( This Answer is Correct )

2 . Tropic movements

3 . Locomotion

4 . Defense

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**Q 31 :** Which of the following is destroyed after its function is over? **Marks : 1**

1 . Amylase

2 . Lipase

3 . Auxin  ( This Answer is Correct )

4 . Protease

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**Q 32 :** Which phytohormone is non-nitrogenous in nature? **Marks : 1**

1 . IAA

2 . IBA

3 . Zeatin

4 . GA  ( This Answer is Correct )

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**Q 33 :** Which hormone is produced in high amount from the branches of a plant undergoing defoliation? **Marks : 1**

1 . Cytokinin

2 . Ethylene  ( This Answer is Correct )

3 . Auxin

4 . Gibberellin

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**Q 34 :** Stimulation of uterine contraction is an example of **Marks : 1**

1 . Positive feedback of Adrenaline

2 . Positive feedback of Oxytocin  ( This Answer is Correct )

3 . Negative feedback of Adrenaline

4 . Negative feedback of Oxytocin

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**Q 35 :** Which of the hormones is not produced by the adrenal medulla ? **Marks : 1**

1 . Glucocorticoid

2 . Adrenaline  ( This Answer is Correct )

3 . Mineralocorticoid

4 . Androgen

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**Q 36 :** Which of the following is not a neurotransmitter ?

**Marks :** 1

- 1 . Dopamine
- 2 . GABA
- 3 . ABA**
- 4 . Acetylcholine

( This Answer is Correct )

**Q 37 :** The lobe of the cerebral cortex that is involved with language is

**Marks :** 1

- 1 . Parietal lobe
- 2 . Frontal lobe
- 3 . Temporal lobe**
- 4 . Occipital lobe

( This Answer is Correct )

**Q 38 :** Which of the following forms a part of diencephalon?

**Marks :** 1

- 1 . Thalamus**
- 2 . Medulla oblongata
- 3 . Pons
- 4 . Midbrain

( This Answer is Correct )

**Q 39 :** The number of flagella in Euglena is

**Marks :** 1

- 1 . 1
- 2 . 2**
- 3 . 3
- 4 . 4

( This Answer is Correct )

**Q 40 :** The number of autosomes present in the body is

**Marks :** 1

- 1 . 22
- 2 . 1
- 3 . 22 pairs**
- 4 . 1 pair

( This Answer is Correct )

**Q 41 :** DNA wrapped around the histone core is called

**Marks :** 1

- 1 . Centrosome
- 2 . Chromatosome
- 3 . Nucleosome**
- 4 . Solenoid

( This Answer is Correct )

**Q 42 :** Which of the following organisms bear zoospores

**Marks :** 1

1. Chlamydomonas
2. Rhizopus
3. Mucor
4. Ulothrix

( This Answer is Correct )

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**Q 43 :** Which of the following is not a meiocyte?

**Marks :** 1

1. Microsporocyte
2. Spermatocyte
3. Granulocyte
4. Primary oocyte

( This Answer is Correct )

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**Q 44 :** Which of the following induces a defensive reaction in unharmed plants?

**Marks :** 1

1. Curcumin
2. Methyl jasmonate
3. Flavonoids
4. Terpenoids

( This Answer is Correct )

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**Q 45 :**  $\alpha$ -amylase converts

**Marks :** 1

1. Starch to Glucose
2. Glucose to Starch
3. Glucose to Glucose-6-Phosphate
4. Glucose -6-phosphate to Fructose-6-phosphate

( This Answer is Correct )

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**Q 46 :** Which of the following hormones react with the receptors inside the cell?

**Marks :** 1

1. Oxytocin
2. Growth Hormone
3. ADH
4. Estrogen

( This Answer is Correct )

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**Q 47 :** Inferior hypophyseal artery is present in

**Marks :** 1

1. Anterior lobe of Pituitary gland
2. Posterior lobe of Pituitary gland
3. Anterior and Posterior lobes of Pituitary gland
4. Hypothalamus

( This Answer is Correct )

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**Q 48 :** Which of the following is the exocrine part of the pancreas?

**Marks :** 1

1.  $\alpha$ - cells
2. Acinar Cells
3.  $\beta$ -cells
4. None of the above

( This Answer is Correct )

**Q 49 :** The part of the neuron which is efferent in nature is

**Marks :** 1

1. Dendrite
2. Dendron
3. Cyton
4. Axon

( This Answer is Correct )

**Q 50 :** Each fascicle is surrounded by

**Marks :** 1

1. Epineurium
2. Perineurium
3. Endoneurium
4. None of the above

( This Answer is Correct )

**Q 51 :** Which of the following is not a type of synapse?

**Marks :** 1

1. Axodendronic
2. Axoaxonic
3. Axosomatic
4. Axodendritic

( This Answer is Correct )

**Q 52 :** Which part of the brain is called 'thirst centre'?

**Marks :** 1

1. Medulla oblongata
2. Pons
3. Hypothalamus
4. Midbrain

( This Answer is Correct )

**Q 53 :** Which of the following is not a refractory media of the eye?

**Marks :** 1

1. Cornea
2. Aqueous Humour
3. Conjunctiva
4. Lens

( This Answer is Correct )

- Q 54 :** When you are looking at an aeroplane high in the sky **Marks : 1**
- 1 . Your lens becomes thin  ( This Answer is Correct )
  - 2 . Focal length of the eye lens decreases
  - 3 . Ciliary muscles contract
  - 4 . Curvature of lens increases
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- Q 55 :** Which of the following is an exception ? **Marks : 1**
- 1 . Dorsal fin
  - 2 . Anal fin
  - 3 . Pelvic fin  ( This Answer is Correct )
  - 4 . Tail fin
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- Q 56 :** The first cell of the gametophytic generation in bryophytes is **Marks : 1**
- 1 . Antheridia
  - 2 . Egg
  - 3 . Spores  ( This Answer is Correct )
  - 4 . None of the above
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- Q 57 :** Gluteus medius is present in **Marks : 1**
- 1 . Outer surface of shoulder
  - 2 . Outer surface of pelvis  ( This Answer is Correct )
  - 3 . Upper part of fore arm
  - 4 . Behind the neck
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- Q 58 :** When the ratio of the size of arms of chromosome p and q is  $p:q=1$ , then the chromosome is **Marks : 1**
- 1 . Sub-metacentric
  - 2 . Acrocentric
  - 3 . Telocentric
  - 4 . Metacentric  ( This Answer is Correct )
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- Q 59 :** If the initial amount of DNA is  $4N$ , the amount of DNA observed after S and M phase respectively are **Marks : 1**
- 1 .  $2N,4N$
  - 2 .  $8N,2N$
  - 3 .  $8N,4N$   ( This Answer is Correct )
  - 4 .  $2N,8N$
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**Q 60 :** Auto orientation of chromosomes is observed in

**Marks :** 1

- 1 . Prophase
  - 2 . Metaphase**
  - 3 . Anaphase
  - 4 . Telophase
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( This Answer is Correct )