



ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD

**Class : 10****Subject : LIFE SCIENCE****Term : SECOND TERM****Max Marks : 80****Q 1 :** Constancy in chromosome number through generations is maintained by**Marks : 1**

- 1 . Meiosis
- 2 . Mitosis
- 3 . Amitosis
- 4 . Both 1&2

 (This Answer is Correct)**Q 2 :** Which of the following type of division causes alternation of generation in plants**Marks : 1**

- 1 . Amitosis
- 2 . Binary fission
- 3 . Meiosis
- 4 . Mitosis

 (This Answer is Correct)**Q 3 :** Which of the following locomotes with the help of Flagella?**Marks : 1**

- 1 . Paramecium
- 2 . Amoeba
- 3 . Euglena
- 4 . Both1&3

 (This Answer is Correct)**Q 4 :** Which type of inheritance is followed by Colour blindness ?**Marks : 1**

- 1 . Autosomal
- 2 . Sex-linked
- 3 . Y - linked
- 4 . Both 2&3

 (This Answer is Correct)**Q 5 :** Neurotransmitters are usually released from**Marks : 1**

- 1 . Dendrites
- 2 . Axon
- 3 . Synaptic knob
- 4 . Cyton

 (This Answer is Correct)

Q 6 : In which of the type of joint,movement is only possible in one plane?

Marks : 1

- 1 . Skull bone joint
- 2 . Ball & socket joint
- 3 . Hinge joint**
- 4 . Both1&3

(This Answer is Correct)

Q 7 : Which of the following hormone stimulates the follicle cells of Gonads?

Marks : 1

- 1 . FSH**
- 2 . GH
- 3 . TSH
- 4 . ACTH

(This Answer is Correct)

Q 8 : Which of the following gets signal from brain for increasing breathing during exercise?

Marks : 1

- 1 . Diaphragm
- 2 . Muscle between ribs
- 3 . Leg muscles
- 4 . Both1&2**

(This Answer is Correct)

Q 9 : Morphogenesis takes place in plant tissue culture due to balance of

Marks : 1

- 1 . Auxin
- 2 . Gibberellins
- 3 . Cytokinin
- 4 . Both 1&3**

(This Answer is Correct)

Q 10 : The true glandular part of of the pituitary gland is

Marks : 1

- 1 . Anterior pituitary**
- 2 . Posterior pituitary
- 3 . Both1&2
- 4 . None of these

(This Answer is Correct)

Q 11 : Synthetic hormones help in

Marks : 1

- 1 . Parthenocarp of fruits
- 2 . Cutting process for plant growth
- 3 . Both1&2**
- 4 . None of these

(This Answer is Correct)

Q 12 : Tectum and tegmentum are part of

Marks : 1

1. Forebrain
2. Midbrain
3. Hindbrain
4. Hypothalamus

(This Answer is Correct)

Q 13 : Polycystic kidney disease is a

Marks : 1

1. Autosomal recessive trait
2. X linked dominant trait
3. Autosomal dominant trait
4. X linked recessive trait

(This Answer is Correct)

Q 14 : The product of SRY gene is

Marks : 1

1. TSF
2. TDF
3. SRF
4. SME

(This Answer is Correct)

Q 15 : Smaller and more compact folds are present in

Marks : 1

1. Cerebral cortex
2. Cerebrum
3. Cerebellar cortex
4. Pons

(This Answer is Correct)

Q 16 : Cleavage formation during cytokinesis in animal cells take place by

Marks : 1

1. Evagination
2. Phragmoplast formation
3. Invagination
4. Both2&3

(This Answer is Correct)

Q 17 : In Guineapig,the coat colour which is dominant over white is

Marks : 1

1. Black
2. Red
3. Yellow
4. Brown

(This Answer is Correct)

Q 18 : How much voltage of electric shock was applied in Mimosaby A.J.C Bose **Marks : 1**

1. 1.5 volts
2. 1.3 volts
3. 1 volt
4. 2 volts

(This Answer is Correct)

Q 19 : Which of the following are Meiocytes? **Marks : 1**

1. Testes
2. Primary spermatocytes
3. Primary Oocyte
4. Both2&3

(This Answer is Correct)

Q 20 : Naphthalene Acetic acid is **Marks : 1**

1. Indole compound
2. Non-indole compound
3. Natural Auxin
4. Both 2&3

(This Answer is Correct)

Q 21 : Which one of the muscle helps in extension type of movement? **Marks : 1**

1. Biceps
2. Triceps
3. Supraspinatus
4. Gluteus medius

(This Answer is Correct)

Q 22 : Which of the following are involved in Protein synthesis? **Marks : 1**

1. Ribosome
2. m RNA
3. Chloroplast
4. Both 1&2

(This Answer is Correct)

Q 23 : The transfer of genetic characters from parents to offsprings is called **Marks : 1**

1. Variation
2. Genetics
3. Heredity
4. Mutation

(This Answer is Correct)

- Q 24 :** The Phenotypic ratio of the Monohybrid cross based on Mendel's experiment of pea plants is **Marks : 1**
1. 1:02:01
 2. 3:01 (This Answer is Correct)
 3. 1:03
 4. 4:03
-

- Q 25 :** Which of the following is the dominant trait for flower position of pea plant? **Marks : 1**
1. Axial (This Answer is Correct)
 2. Terminal
 3. Tall
 4. Dwarf
-

- Q 26 :** What percentage of tall pea plants are formed at the F2 generation of monohybrid cross? **Marks : 1**
1. 50%
 2. 75% (This Answer is Correct)
 3. 80%
 4. 25%
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- Q 27 :** Which of the following individuals are more likely to be colourblind? **Marks : 1**
1. Women
 2. Men (This Answer is Correct)
 3. Equal chances
 4. Cannot be determined
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- Q 28 :** Which of the following concepts is related to the Mendel's fourth postulate? **Marks : 1**
1. Segregation of alleles
 2. Independent assortment (This Answer is Correct)
 3. Both 1&2
 4. None of these
-

- Q 29 :** The club shaped sex organ produced in Pteridophytes is **Marks : 1**
1. Antheridium (This Answer is Correct)
 2. Archegonium
 3. Female sex organ
 4. Both a&c
-

Q 30 : In Human the allele for brown eyes is

Marks : 1

- 1 . Dominant
- 2 . Recessive
- 3 . Homozygous recessive
- 4 . None of these

(This Answer is Correct)

Q 31 : The dominant phase in the life cycle of mosses is

Marks : 1

- 1 . Gametophyte
- 2 . Sporophyte
- 3 . Both 1 &2
- 4 . None of these

(This Answer is Correct)

Q 32 : Possibility of evolution and emergence of new species is increased as a result of

Marks : 1

- 1 . Fertilization
- 2 . Self-pollination
- 3 . Cross-pollination
- 4 . None of these

(This Answer is Correct)

Q 33 : Sensory receptors can detect stimuli from _____ environment.

Marks : 1

- 1 . Internal
- 2 . External
- 3 . Both 1&2
- 4 . None of these

(This Answer is Correct)

Q 34 : Which of the following is a relatively stronger joint?

Marks : 1

- 1 . Bone joints of skull
- 2 . Synovial joint
- 3 . Slightly movable joints
- 4 . Diarthrosis joints

(This Answer is Correct)

Q 35 : Colour blindness is associated with the defects of pigments present in

Marks : 1

- 1 . Rod cells
- 2 . Cone cells
- 3 . Both 1&2
- 4 . None of these

(This Answer is Correct)

Q 36 : Stamen of the flower of pea plant does not includes the _____ part **Marks : 1**

1. Male reproductive
2. Female reproductive
3. Vegetative
- 4. Both 2&3**

(This Answer is Correct)

Q 37 : Which of the following is not a SAT chromosome in human? **Marks : 1**

1. Chromosome 13
2. Chromosome 14
- 3. Chromosome 16**
4. Chromosome 21

(This Answer is Correct)

Q 38 : Delaying leaf senescence and promoting lateral bud growth are the function of **Marks : 1**

1. Auxin
2. Gibberellins
- 3. Cytokinin**
4. None of these

(This Answer is Correct)

Q 39 : A true breeding pea plant cannot be **Marks : 1**

1. Homozygous
- 2. Heterozygous dominant**
3. Homozygous recessive
4. Both 1&3

(This Answer is Correct)

Q 40 : Thalassemia major is associated with mutation of _____ globin gene. **Marks : 1**

1. Alpha
2. Beta
- 3. Both 1&2**
4. None of these

(This Answer is Correct)

Q 41 : How many types of paired fins are there in a fish? **Marks : 1**

- 1. 2**
2. 4
3. 6
4. 3

(This Answer is Correct)

Q 42 : The genetic constitution of an organism is denoted by

Marks : 1

1. Phenotype
2. Genotype
3. Locus
4. Character

(This Answer is Correct)

Q 43 : The genotype of the Yellow wrinkled seeded pea plants is not

Marks : 1

1. rrYY
2. rrYy
3. rryy
4. Both1&2

(This Answer is Correct)

Q 44 : The process which is independent of the direction of stimulus is known as

Marks : 1

1. Tactic movement
2. Nastic movement
3. Paratonic movement
4. Both 1&2

(This Answer is Correct)

Q 45 : Which of the following along with photonasty is termed as Nyctinasty?

Marks : 1

1. Chemonasty
2. Seismonasty
3. Thermonasty
4. Haptonasty

(This Answer is Correct)

Q 46 : Positive feedback mechanism of hormone action _____ the secretion of hormone itself

Marks : 1

1. Decreases
2. Increases
3. Both 1&2
4. Has no role

(This Answer is Correct)

Q 47 : Bleeding in Haemophilia patient is

Marks : 1

1. External
2. Internal
3. Both1&2
4. None of these

(This Answer is Correct)

Q 48 : Which of the following are present in a nerve?

Marks : 1

1. Artery
2. Vein
3. Fascicle
4. All of these

(This Answer is Correct)

Q 49 : Which of the following does not undergo Nyctinasty?

Marks : 1

1. Medicago
2. Drosera
3. Both 1&2
4. None of these

(This Answer is Correct)

Q 50 : Bushy habit of a plant is usually induced by

Marks : 1

1. Auxin
2. Gibberellins
3. Cytokinin
4. Both 1&3

(This Answer is Correct)

Q 51 : The ability to detect a change in the environment by an organism is called

Marks : 1

1. Response
2. Stimulus
3. Sensitivity
4. None of these

(This Answer is Correct)

Q 52 : In X linked inheritance, the percentage of children getting the mutated gene from the mother is

Marks : 1

1. 100%
2. 50%
3. 75%
4. 25%

(This Answer is Correct)

Q 53 : Phytohormones travel through

Marks : 1

1. Xylem vessels
2. Sieve plate
3. Both 1&2
4. None of these

(This Answer is Correct)

Q 54 : The pea sized lump of glandular tissue connected to Hypothalamus is called

Marks : 1

1. Pituitary
2. Hypophysis
3. Cerebellum
4. Both1&2

(This Answer is Correct)

Q 55 : The growth movement due to touch can be seen in

Marks : 1

1. Tendril of pea
2. Root of Vine
3. Both1&2
4. None of these

(This Answer is Correct)

Q 56 : The term nerve is ususally referred to the bundle of axon

Marks : 1

1. In Brain
2. In CNS
3. In PNS
4. Both 2&3

(This Answer is Correct)

Q 57 : Which of the parts of birds are modified into wings?

Marks : 1

1. Hindlimb
2. Forelimb
3. Feather
4. Remiges

(This Answer is Correct)

Q 58 : Animal hormones are _____ substances.

Marks : 1

1. Simple Inorganic
2. Complex organic
3. Simple organic
4. Non-Communicator

(This Answer is Correct)

Q 59 : The type of movement in human being with reference to the midline includes

Marks : 1

1. Medial rotation
2. Flexion
3. Abduction
4. Extension

(This Answer is Correct)

Q 60 : Which of the following is a heterocrine gland?

Marks : 1

1. Testes
2. Ovary
- 3. Pancreas**
4. Thyroid

(This Answer is Correct)

Q 61 : The hormone which is most active in female during during ovulation & pregnancy is

Marks : 1

1. Oxytocin
2. Estrogen
3. Vasopressin
- 4. Progesterone**

(This Answer is Correct)

Q 62 : Drawing our fingers close together is

Marks : 1

1. Abduction
2. Rotation
- 3. Adduction**
4. Flexion

(This Answer is Correct)

Q 63 : Transformation of apical bud to floral bud occurs by

Marks : 1

- 1. GA3**
2. GA1
3. GA4
4. None of these

(This Answer is Correct)

Q 64 : Haemophilic persons have problems of blood _____.

Marks : 1

1. Pigmentation
2. Colour
- 3. Clotting**
4. Temperature

(This Answer is Correct)

Q 65 : Alternative form of a gene is called

Marks : 1

1. Trait
2. Locus
3. Character
- 4. Allele**

(This Answer is Correct)

Q 66 : Certain aspects of sensory and perceptual skills diminishes during **Marks : 1**

1 . Late adulthood (This Answer is Correct)

2 . Infancy

3 . Childhood

4 . Adolescence

Q 67 : The unusual growth of style making them taller than anther of flower is an adaptation of **Marks : 1**

1 . Self-pollination

2 . Cross-pollination (This Answer is Correct)

3 . Both1&2

4 . None of these

Q 68 : Which is not a much reliable measure of mass of an organism? **Marks : 1**

1 . Dry mass

2 . Fresh mass (This Answer is Correct)

3 . Dry weight

4 . Both 1&2

Q 69 : Pollination occuring between two different flowers of the same plant,it is called **Marks : 1**

1 . Autogamy

2 . Geitonogamy (This Answer is Correct)

3 . Both1&2

4 . None of these

Q 70 : The propagation in which the original plants are set in the ground with stem horizontally is **Marks : 1**

1 . Mound layering

2 . Ground layering

3 . Cutting

4 . Both 1&2 (This Answer is Correct)

Q 71 : The flower that can be cut into two equal halves at any plane ,it is called **Marks : 1**

1 . Actinomorphic (This Answer is Correct)

2 . Zygomorphic

3 . Complete

4 . Incomplete

Q 72 : Which of the following is correct regarding Phytohormones? **Marks : 1**

1. Specific signal molecules
2. Concentration fixed at all stages
3. Natural or synthetic
- 4. Both1&3**

(This Answer is Correct)

Q 73 : Growth of an organism includes increase in **Marks : 1**

1. Height
2. Weight
3. Size
- 4. All of these**

(This Answer is Correct)

Q 74 : Marriage between two thalassemia minor individuals results in _____ % of Normal children **Marks : 1**

1. 50
2. 20
- 3. 25**
4. 75

(This Answer is Correct)

Q 75 : Which of the following type of feedback mechanism is shown by Oxytocin? **Marks : 1**

- 1. Positive**
2. Negative
3. Both1&2
4. None of these

(This Answer is Correct)

Q 76 : What percentage of F1 dwarf plants are formed in a cross between pure tall & pure dwarf pea plant? **Marks : 1**

1. 100%
2. 50%
- 3. 0%**
4. 25%

(This Answer is Correct)

Q 77 : How many cycles of nuclear division takes place in meiosis ? **Marks : 1**

1. 1
- 2. 2**
3. 3
4. None of these

(This Answer is Correct)

Q 78 : Which of the following is not the gamete produced by the F1 individual in Mendel's dihybrid cross? **Marks :** 1

- 1 . YR
- 2 . yr
- 3 . Yr
- 4 . YY**

(This Answer is Correct)

Q 79 : The percentage of F2 Pink coloured flowers formed out of cross of pure red and white Four o'clock flowers **Marks :** 1

- 1 . 100%
- 2 . 0%
- 3 . 50%**
- 4 . 75%

(This Answer is Correct)

Q 80 : The chromosome number of the zygote formed after fertilization is **Marks :** 1

- 1 . n
- 2 . 2n**
- 3 . 3n
- 4 . Both 1&3

(This Answer is Correct)
