- 1) The genome of influenza virus is made up of
- A) Single strand RNA
- B) Double strand DNA
- C) Single strand DNA
- D) Double stranded RNA

- Galantamine hydrobromide is a compound derived from
- A) Cannabis
- B) Coca
- C) English yew
- D) Daffodils

Correct option is D

- 3) Mark the correct match
- A) Haemophilia- blood cancer
- B) SA node-pacemaker
- C) ECG-brain
- D) Alpha cells-insulin

Correct option is B

- 4) Cells which kill cells that display foreign motifs on their surface are
- A) Platelets
- B) Cytotoxic T cells
- C) Antigen
- D) Red blood cells

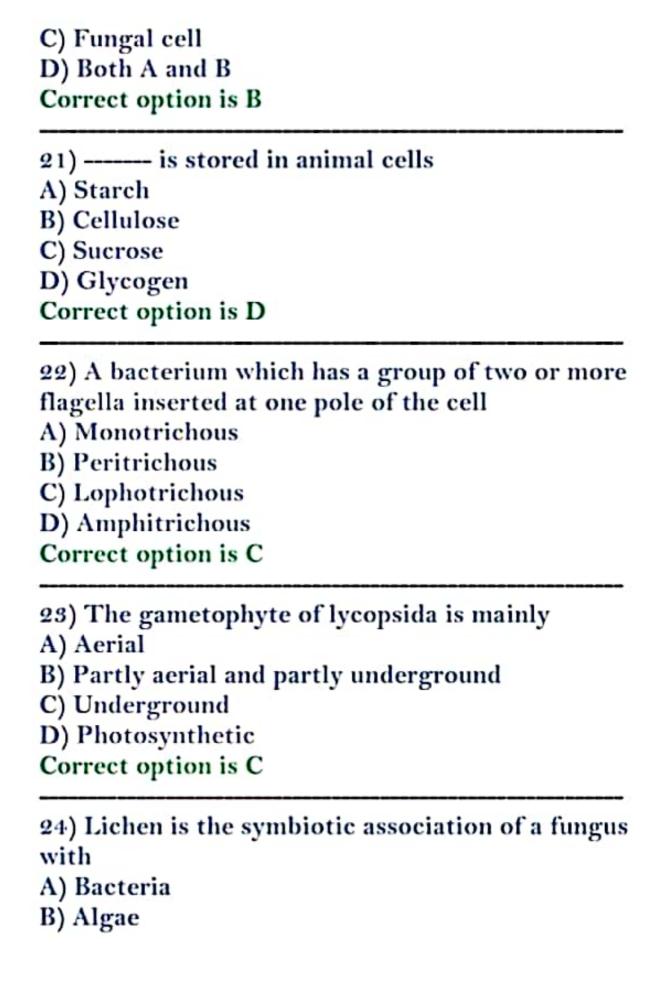
Correct option is B

5) Chitin is a A) Lipoprotein B) Polysaccharide C) Glycoprotein D) Phospholipid Correct option is B 6) Organization of photosynthetic pigments into clusters is A) Photosynthesis B) Photosystem C) Photosynthetic cluster arrangement D) Calvin system Correct option is B 7) Amphibians are poikilothermic, therefore they used to hibernate in A) Winter B) Summer C) Autumn D) Spring Correct option is A 8) All of the following are macronutrients except A) Cu ions B) Ca ions C) Mg ions D) K ions Correct option is A

9) Purkinje fibres are connected with the impulse conducting system of A) Heart B) Brain C) Skin D) Nephron Correct option is A 10) The alveoli represents the total surface area of A) 10-30m B) 30-60m C) 70-90m D) 90-110m Correct option is C 11) Some marine fishes processes salt excreting organs known as A) Thyroid gland B) Pituitary gland C) Adrenal gland D) Rectal gland Correct option is D 12) Tetanus is the infection of A) Respiratory system B) Nervous system C) Circulatory system D) Bones and Muscles Correct option is B

- 13) ---- regulate the body temperature A) Hypothalamus B) Thalamus C) Hippocampus D) Amygdala Correct option is A 14) A man has to face interview, but during his first five minutes before the interview he experiences sweating, increased heart rate and respiration. Which hormone is responsible for his restlessness A) Adrenocorticotropic hormone B) Insulin and Glucagon C) Epinephrine and nor epinephrine D) Aldosterone Correct option is C 15) Hypothalamus connected to the pituitary gland via A) Nerves B) Infundibulum C) Blood D) No connection Correct option is B
- 16) 2nd meiotic division in oocyte is completed
- A) When oocyte is fertilized by sperm
- B) When ovum is discharged from the ovary

C) Just before fertilization D) Before the onset of menstruation Correct option is A 17) Recombinants contain DNA from A) 2 different sources B) Single source C) 2 same sources D) 3 same sources Correct option is A 18) The inner surface of a kidney has a deep notch called A) Renal pelvis B) Hilus C) Medulla D) Pyramids Correct option is B 19) ---- is considered as a chief structural and functional unit of nervous system A) Cell B) Neuron C) Nephron D) Brain Correct option is B 20) The bacteriophage replicates only inside the A) Animal cell B) Bacterial cell



D) Animal Correct option is B 25) The deficiency of which micronutrient causes goiter formation A) Iron B) Zinc C) Iodine D) Sodium Correct option is C 26) Diphtheria Vaccine is an example of A) Inactive vaccine B) Toxoid vaccine C) Sub-unit vaccine D) Live, attenuated vaccine Correct option is B 27) The number of human spinal nerves are A) 60 B) 62 C) 64 D) 66 Correct option is B 28) Which one of the following item gives its correct total number? A) Cervical vertebra -7 B) Floating ribs in human -3

C) Other fungus

- C) Auditory ossicles -8
- D) Cranium bones -4

- 29) Find mismatch
- A) Thyroid gland T3 and T4
- B) Parathyroid gland Calcitonin
- C) Pancreas Insulin
- D) Gonads Testes and Ovaries

Correct option is B

- 30) The simplest form of learning is
- A) Insight learning
- B) Imprinting
- C) Latent learning
- D) Habituation

Correct option is D

- 31) A pure breeding tall plant was crossed to a dwarf plant. What would be the probability of "Tt" genotype in F2?
- A) 0
- B) 0.25
- C) 0.5
- D) 0.75

Solution:

 $TT \times tt = Tt \text{ in } F1$

Now

 $F2 = F1 \times F1$

 $F2 = Tt \times Tt$

F2= TT, Tt, Tt, tt
As
TT=1/4=0.25
Tt=1/2=0.5
tt=1/4=0.25
So correct option is C

- 32) To the end of first trimester the embryo can now technically describe as a
- A) Zygote
- B) Infant
- C) Toddler
- D) Foetus

Correct option is D

- 33) How many pairs of homologous chromosomes are present in Pisum sitivam?
- A) Seven
- B) Eight
- C) Nine
- D) Ten

Correct option is A

- 34) For hepatitis B, the incubation period is between
- A) 4-20 weeks
- B) 6-20 weeks
- C) 2-26 weeks
- D) 2-6 weeks

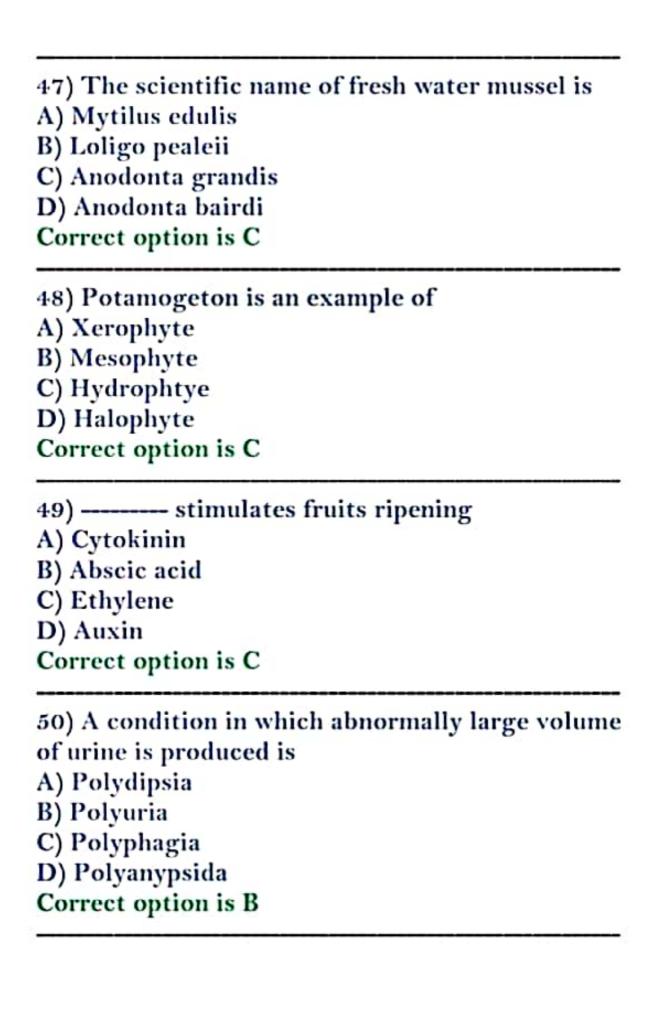
Correct option is A

35) Which chlorophyl	wavelengths are mainly absorbed by
	Blue and Red
B) Green a	
C) Violet a	
D) Red And	
Correct op	
36) The bio	ogas plant is a tank which is
A) 5-10 fee	t deep
B) 10-15 fe	et deep
C) 15-20 fe	et deep
D) 20-25 fe	eet deep
Correct op	tion is B
37) DNA p	olymerase III works always in
A) 5'-2' dir	
B) 5'-3' dir	
C) 3'-5' dir	
D) 2'-5' dir	
Correct op	
an) Chamia	
	cally, Hormones are
A) Carbohy	
B) Proteins	
C) Steroids	
D) B and C	
Correct op	tion is D

39) The least toxic excretory product is A) Ammonia B) Urea C) Uric acid D) Fatty acid Correct option is C 40) The form of immunity which inherit from mother is A) Active immunity B) Passive immunity C) Acquired immunity D) Innate immunity Correct option is D 41) Opossum and Kola bear belong to sub class A) prototheria B) Eutheria C) Metatheria D) Monotremata Correct option is C 42) Phosphatase belong to which group of the following? A) Lyases B) Ligases C) Hydrolases D) None of the above Correct option is C

43) Oleic acid is a fatty acid with 18 carbon atoms It breaks into 9 acetyl groups. It is estimated that these 9 acetyl would generate —— ATP molecules A) 81 B) 98 C) 101 D) 108 Correct option is D	
44) Horsetails are included in class A) Pteropsida B) Lycopsida C) Psilopsida D) Sphenopsida Correct option is D	
45) Which one of the following bone is the only moveable portion of the skull? A) Maxilla B) Frontal bone C) Mandible D) Zygomatic Correct option is C	
46) Progesterone is secreted by A) Corpous luteum B) Ripening follicle C) Uterine epithelium	

D) Fertilized egg Correct option is A



- 51) Sulphur bacteria belongs to sub group of bacteria called
- A) Beta-proteobacteria
- B) Alpha-proteobacteria
- C) Gamma-proteobacteria
- D) Delta-proteobacteria

- 52) Nuclear mitosis occur in
- A) Plants
- B) Animals
- C) Fungi
- D) Monera

Correct option is C

- 53) Excess glucose is converted in the liver to glycogen in response to the hormone
- A) Glucagon
- B) Insulin
- C) Bile
- D) Both A and B

Correct option is B

- 54) During muscles relaxation the calcium ions are
- A) Released from sarcoplasmic reticulum into sarcoplasm
- B) Forced back from sarcoplasm to sarcoplasmic reticulum
- C) Further forced from sarcoplasmic reticulum into sarcoplasm

D) Neither released more nor forced back but remain constant Correct option is B 55) DNA finger printing refers to A) Technique used for identification of finger prints of individuals B) Molecular analysis of profiles of DNA samples C) Analysis of DNA samples using imprinting devices D) Both A and C Correct option is B 56) Functionally ---- pairs of cranial nerves are sensory in nature, ---- pairs are motor in nature while ---- pairs are mixed in nature. A) 3, 4 and 5 B) 4, 5 and 3 C) 3, 5 and 4 D) 4, 3 and 5 Correct option is C 57) The bulbourethral glands produce A) Acidic fluid B) Alkaline fluid

- C) Semen
- D) Mucus

Correct option is D

58) Platyhelminthes are

A) Bilaterally symmetrical and diploblastic B) Bilaterally symmetrical and triploblastic C) Radially symmetrical and triploblastic D) Radially symmetrical and diploblastic Correct option is B	
59) HIV destroys a type of defence cell in the body called —— helper lymphocyte. A) TD4 B) T4 C) C4 D) CD4 Correct option is D	
60) Acetabularia crenulata has a ——— shape cap. A) Irregular B) Umbrella C) Regular D) Disc Correct option is A	
61) The ribosomes responsible for protein synthesis are present in cell A) Floating in cytosol B) Localized in the nucleus C) Bound to rough ER D) Both A and C Correct option is D	
62) enzymes need a primer for the initiation	

of its function A) RNA polymerase B) DNA polymerase C) Ligase D) Primase Correct option is B 63) The percentage of fresh water on earth is A) 1% B) 3% C) 5% D) 7% Correct option is B 64) The following are sexual reproduction methods in bacteria except A) Transformation B) Transduction C) Conjugation D) Binary fission Correct option is D 65) The lipid bilayer makes the membrane differentially permeable barrier that allows the transport of A) Ionic materials B) Polar materials C) Non polar materials D) Glycoproteins Correct option is C

66) Particular amino acid and tRNA molecule binds together by the action of an enzyme named A) tRNA synthetase B) Amino tRNA synthase C) tRNA ligase D) Aminoacyl tRNA synthase Correct option is D
67) In male Luteinizing hormone is also known as A) ACTH B) ICSH C) TRF D) MSH Correct option is B
The possible reason for cyanosis; one of the congenital heart disease is A) Formation of carboxy haemoglobin B) The high concentration of oxyhemoglobin C) Low level of CO2 D) Low level of haemoglobin Correct option is A
A) 2 B) 4 C) 6 D) 8 Correct option is B

70) The larva formed during the life cycle of annelida is A) Glochidium larva B) Bipinnaria larva C) Trochophore larva D) Tornaria larva Correct option is C 71) Tmesipteris is an example of A) Horsetail B) Clubmosses C) Psilopsida D) Pteropsida Correct option is C 72) Independent gametophyte and sporophyte are found in A) Selaginella B) Polytrichum C) Ectocarpus D) Liverwort Correct option is C 73) In human the disease symptoms develop during the A) Log phase B) Lag phase C) Growth phase D) Decline phase

- 74) The optimum pH of the enzyme urease is
- A) 7.8-8.7
- B) 7.0
- C) 4.5
- D) 8.0

Correct option is B

- 75) Which statement about chlorophyll is not true?
- A) It contains terminal carbonyl group
- B) It contains phyto tail
- C) It contains porphrin ring
- D) It contain magnesium

Correct option is A

- 76) The bond that is formed between two monosaccharide units is called
- A) Ionic bond
- B) Hydrogen bond
- C) Peptide bond
- D) Glycosidic bond

Correct option is D

- 77) The following histone proteins form a nucleosome complex except
- A) H1
- B) H2A
- C) H2B
- D) H3

- 78) The safaranine stain is suitable for
- A) Fungal hyphae
- B) Cytoplasm/Cellulose
- C) Blood cells
- D) Lignin

Correct option is D

- 79) In the human skull the unpaired bones are
- A) Frontal, Occipital, Ethmoid and Sphenoid
- B) Frontal, Ethmoid, Sphenoid and Zygomatic
- C) Ethmoid, Sphenoid, Zygomatic and Frontal
- D) Temporal, Sphenoid, Frontal and Ethmoid Correct option is A
- 80) Ebners gland on the dorsal surface of the tongue secrete an enzyme
- A) Amylase
- B) Ptyalin
- C) Lingual lipase
- Dl Both A and B

Correct option is C