

## Section A

Chose the most appropriate answer

- The number of moles of solute present in 1 kg of a solvent is called its
  - Molality
  - Molarity
  - Normality
  - Formality
- The law which states that the amount of gas dissolved in a liquid is proportional to its partial pressure is
  - Dalton's law
  - Gay Lussac's law
  - Henry's law
  - Raoult's law
- The ionic radii of  $\text{N}^{3-}$ ,  $\text{O}^{2-}$ ,  $\text{F}^-$  and  $\text{Na}^+$  follow the order
  - $\text{N}^{3-} > \text{O}^{2-} > \text{F}^- > \text{Na}^+$
  - $\text{N}^{3-} > \text{Na}^+ > \text{O}^{2-} > \text{F}^-$
  - $\text{Na}^+ > \text{O}^{2-} > \text{N}^{3-} > \text{F}^-$
  - $\text{O}^{2-} > \text{F}^- > \text{Na}^+ > \text{N}^{3-}$
- When phenol is treated with  $\text{CHCl}_3$  and  $\text{NaOH}$ , the product formed is
  - Salicylic acid
  - Salicylaldehyde
  - Benzaldehyde
  - Benzoic acid
- The atomic number of iron is 26, how many protons are present in  $\text{Fe}^{2+}$ ?
  - 24
  - 28
  - 25
  - 26
- Which of the following reactions will not result in the formation of carbon-carbon bond?
  - Reimer-Tieman reaction
  - Cannizzaro reaction
  - Wurtz reaction
  - Friedel Crafts acylation
- Which is not a polymer?
  - Sucrose
  - Enzyme
  - Starch
  - Teflon
- pH of pure water is
  - 10
  - 14
  - 7
  - 3
- The term PVC used in the plastic industry stands for
  - phosphavinyl chloride
  - polyvinyl chloride
  - polyvinyl carbobate
  - phosphor vanadiu chloride
- The most electronegative element among the following is
  - Sodium
  - Bromine
  - Fluorine
  - Oxygen

11. The weight of a body is maximum at the

- a. Poles
- b. Equator
- c. Mount Everest
- d. Tropic of Capricorn

12. An eye can form sharp images of objects as close as

- a. 25 inches
- b. 25 metres
- c. 25 mm
- d. 25 cm

13. Sound travels in air as

- a. longitudinal waves
- b. transverse waves
- c. electromagnetic waves
- d. matter waves

14. The X-ray beam coming from an X-ray tube will be

- a. monochromatic
- b. having all wavelengths smaller than a certain maximum wavelength
- c. having all wavelengths larger than a certain minimum wavelength
- d. having all wavelengths lying between a minimum and a maximum wavelength

15. Electric current may be expressed in which one of the following units?

- a. coulombs per volt
- b. joules per coulomb
- c. coulombs per second
- d. ohms per second

16. Which of the following will provide the highest number of glucose molecule on hydrolysis?

- a. polypeptide.
- b. lactose
- c. starch
- d. galactose

17. Amino acids are classified according to

- a. their colour
- b. their molecular weight
- c. their net charge
- d. structure and properties of their side chain

18. Which of the following statements are true?

- a. DNA can direct its own replication while RNA cannot
- b. DNA is nucleic acid but RNA is not
- c. DNA is more stable than RNA
- d. Only DNA can form genetic material

19. ATP is called as the universal energy currency of life because it

- a. releases heat on hydrolysis
- b. is a large molecule
- c. traps energy released from the oxidation of various classes of food molecules
- d. enables cell to bypass the second law of thermodynamics

20. It can be inferred from the first law of thermodynamics that the

- a. total energy content of the universe remains constant
- b. total energy content of universe varies from time to time
- c. total energy content of the universe increase over a period of time
- d. total energy content of the universe decreases over a period of time



21. Which one of the following groups has elements most commonly present in biological systems?

- a. Nitrogen, sulphur, potassium and oxygen
- b. Sodium, carbon, oxygen and hydrogen
- c. Carbon, nitrogen, hydrogen and oxygen
- d. Carbon, sulphur, potassium and hydrogen

22. Water has a fluid physical structure due to

- a. covalent bonds between hydrogen atoms
- b. covalent bonds between hydrogen and oxygen atoms
- c. strong electrostatic bonds between hydrogen ions and oxygen ions
- d. weak electrostatic bonds between partially charged hydrogen and oxygen

23. It can be inferred from the second law of thermodynamics that

- a. the total entropy of the universe varies between high and low values
- b. the total entropy of the universe remains constant
- c. the total entropy of the universe is continually increasing
- d. the total entropy of the universe is continually decreasing

24. Chromatin may be described as

- a. the total genetic content of the cell
- b. a complex of DNA and protein from which chromosomes are composed
- c. the proteins that give structural support to a chromosome
- d. the form in which DNA exists when it is not tightly bound to chromosome

25. The organic compounds in which a carbon atom bonds *only* to hydrogen atoms and other carbon atoms are known as

- |                  |                |
|------------------|----------------|
| a. nucleic acids | b. fatty acids |
| c. hydrocarbons  | d. lipids      |

26. The average of  $3.05 + 0.075 + 2.075 + 12.7 + 3.1$  is

- |        |        |
|--------|--------|
| a. 4.1 | b. 4.0 |
| c. 4.3 | d. 4.2 |

27. What is 15% of 25?

- |          |         |
|----------|---------|
| a. 1.3.5 | b. 3.75 |
| c. 3.25  | d. 4.0  |

28. Evaluate  $25\% \text{ of } 500 + 45\% \text{ of } 1000$

- |        |        |
|--------|--------|
| a. 575 | b. 525 |
| c. 550 | d. 580 |

29. Solve  $x$  for the equation :  $3(2x+9) = 75$

- |       |       |
|-------|-------|
| a. 8  | b. 10 |
| c. 12 | d. 14 |

30. Solve  $x$  for the equation:  $6(x - 2) + 10x = 15x$

- |       |       |
|-------|-------|
| a. 9  | b. 10 |
| c. 12 | d. 15 |



31. \_\_\_\_\_ divided cell cycle into four phases
- Darnell
  - Bottino
  - Hapler
  - Howard & Pelc
32. \_\_\_\_\_ enhances stability of lipid bilayer and reduces their permeability.
- Cholesterol
  - Cephalin
  - Glycerol
  - Sphingomyelin.
33. Which of the following is NOT contained in a chloroplast?
- Nucleus
  - Stroma
  - DNA
  - Ribosomes
34. The Pinocytosis was first observed by \_\_\_\_\_ in amoeba.
- Lewis
  - Alberts
  - Edward
  - Rothman
35. Which one of the following in humans lacks a nucleus?
- Lymphocyte
  - RBC
  - Monocytes
  - Neutrophils
36. The organelle which is not surrounded by a membrane is
- Lysosome
  - Nucleolus
  - Golgi Body
  - Nucleus
37. Which organelle possesses circular DNA?
- Lysosome
  - Chloroplast
  - Golgi apparatus
  - Ribosome
38. A patch-clamp device is used to
- measure the strength of an electrochemical gradient.
  - study the properties of individual neurotransmitters.
  - infuse different kinds of ions into of an axon.
  - study the properties of individual membrane channels.
39. The terminal electron acceptor of mitochondrial electron transport is
- O<sub>2</sub>
  - H<sub>2</sub>O
  - CO<sub>2</sub>
  - ATP
40. Which of these types of proteins are most responsible for assuring that cells do not replicate if there is DNA damage?
- cyclins
  - protooncogenes proteins
  - tumor suppressor proteins
  - inactivating phosphatases
41. In the human female, menstruation can be deferred by the administration of
- FSH
  - LH
  - Combination of FSH and LH
  - Combination of estrogen and progesterone



42. During the transmission of nerve impulse through a nerve fibre, the potential on the inner side of the plasma membrane has which type of electric charge?
- First positive, then negative and again back to positive
  - First negative, then positive and again back to negative
  - First positive, then negative and continue to be negative
  - First negative, then positive and continue to be positive.
43. Identify the odd combination of the habitat and the particular animal concerned
- Rann of Kutch- Wild Ass
  - Dachigam National Park- Snow Leopard
  - Sunderbans-Bengal Tiger
  - Periyar-Elephant
44. Which one of the following pairs is mismatched?
- Bombyx mori*-silk
  - Pila globosa*-pearl
  - Apis indica*-honey
  - Kenia lacca*-lac
45. Which of the following belongs to the Phylum Platyhelminthes?
- Plasmodium
  - Wuchereria
  - Schistosoma
  - Trypanosoma
46. Water-vascular system is found in
- Sea anemone
  - Sea pen
  - Sea cucumber
  - Sea horse
47. In which of the following pair, the two items mean one and the same?
- Leucocytes – lymphocytes
  - SA node – pace maker
  - Malleus – anvil
  - Haemophilia – blood cancer
48. Sertoli cells are responsible for
- providing nourishment to developing spermatozoa
  - secretion of testosterone
  - secretion of glucagon
  - none of the above
49. Signals of parturition originate from
- Placenta only
  - Fully developed foetus only
  - Both placenta as well as fully developed foetus
  - Oxytocin released from maternal pituitary
50. What is the correct surgical method for preventing pregnancy in which vas deferens is cut?
- Ovariectomy
  - Hysterectomy
  - Vasectomy
  - Tubectomy
51. The maximum volume of air contained in the lung by a full forced inhalation is called
- Vital capacity
  - Tidal volume
  - Total lung capacity
  - Inspiratory capacity



52. Organic farming is the technique of raising crops through uses of
- manures
  - biofertilizers
  - resistant varieties
  - all of the above
53. Development of shoot and root is determined by
- Cytokinin and auxin ratio
  - Enzymes
  - Temperature
  - Plant nutrients
54. Formation of diploid embryosac from diploid vegetative structure, e.g., nucellus or integument etc., without meiosis is called
- Apospory
  - Apomixis
  - Diplospory
  - Adventive polyembryony
55. Which of the following statement is true regarding vegetative propagation?
- vegetative propagation occurs naturally and artificially producing genetically identical plants
  - vegetative propagation occurs naturally and artificially producing genetically different plants
  - vegetative propagation occurs artificially producing genetically similar plants
  - vegetative propagation occurs artificially producing genetically similar plants
56. The pigment involved in photo morphogenetic movements is
- Cytochrome
  - Phytochrome
  - Chromatin
  - Vernalin
57. The most quickly available source of nitrogen to plants are
- amide fertilizers
  - ammonia fertilizers
  - nitrate fertilizers
  - ammonia nitrate fertilizers
58. Characteristics that are common to Arthropods, Molluscs, Echinoderms and Chordate lines are
- Segmentation and coelom
  - Endoskeleton and a coelom
  - Compound eye and segmentation
  - Coelom and parietal eye
59. The first step in Taxonomy is
- Identification
  - Classification
  - Naming
  - Description
60. Which of the following is not a locomotory organ in protozoa?
- Seta
  - Pseudopodia
  - Cilia
  - Flagellum
61. Energy and nutrients enter a community by way of
- Producers
  - Scavengers
  - Decomposers
  - Consumers
62. Theory of inheritance of acquired characters was given by
- Lamarck
  - Darwin
  - Wallace
  - De Vries



63. The pyramid of energy in any ecosystem is

- a. always upright
- b. always inverted
- c. Maybe upright or inverted
- d. None of the above

64. Evolution is

- a. Progressive development of race
- b. History and development of race along with variations
- c. History of race
- d. Development of race

65. Synecology deals with

- a. ecology of many species
- b. ecology of many populations
- c. ecology of community
- d. none of the above

66. Which of the following is an example of a living fossil?

- a. *Pinus*
- b. *Gnetum*
- c. *Ginkgo*
- d. *Riccia*

67. Trophic levels are formed by

- a. Plants
- b. Organisms linked in a food chain
- c. Animals
- d. Herbivores

68. A species inhabiting different geographical areas is known as

- a. allopatric
- b. sympatric
- c. biospecies
- d. sibling

69. A relation which is harmful to both the populations

- a. Neutralism
- b. Competition
- c. Parasitism
- d. Antibiosis

70. Lamarck theory of organic evolution is usually known as

- a. Inheritance of acquired characters
- b. Natural selection
- c. Gene flow
- d. Descent with change

71. By which of these bonds are purines and pyrimidines held together in a DNA double helix?

- a. C bonds
- b. H bonds
- c. N bonds
- d. O bonds

72. A codon is made up of

- a. 2 nucleotides
- b. 3 nucleotides
- c. 4 nucleotides
- d. 5 nucleotides

73. Which of these is not involved in transcription?

- a. base pairing
- b. ligation
- c. acylation
- d. polymerization



74. In a DNA double helix which of the following is true

- a.  $A=G$                       b.  $G=C$
- c.  $A+G=C+T$               d.  $A+G/T+C=1$

75. One of the initial stages of transcription is binding of which of the following to the promoter site?

- a. DNA polymerase              b. RNA polymerase
- c. Ribosome                      d. Gyrase

76. Alteration of a gene in bacteria may be due to all of the following except

- a. transformation                b. mutation
- c. transduction                  d. transcription

77. Sixty one (61) codons in the genetic dictionary code for

- a. 64 amino acids                b. 32 amino acids
- c. 10 amino acids                d. 20 amino acids

78. The physical expression of a character is called

- a. anatomy                      b. physiology
- c. phenotype                    d. genotype

79. Crossing over occurs during

- a. leptotene                      b. diplotene
- c. diakinesis                    d. pachytene

80. Down's Syndrome is due to

- a. 19 trisomy                      b. 21 trisomy
  - c. 23 trisomy                      d. 25 trisomy
-



## Section B

Fill in the Blanks with the most appropriate words/terms

1. The number of chambers in a crocodile's heart has \_\_\_\_\_.
2. The culture of bees is called as \_\_\_\_\_.
3. \_\_\_\_\_ is the causative agent of AIDS.
4. Graafian follicles are responsible for the production of the hormone \_\_\_\_\_.
5. The Great Indian Bustard is found in the \_\_\_\_\_ National Park, Rajasthan.
6. The free energy released during redox reactions in the inner membrane of mitochondria is used to transport \_\_\_\_\_ to the intermembrane space.
7. The concentration of hydrogen ions in an aqueous solution and its pH value are \_\_\_\_\_ related.
8. The manifestations of Vitamin \_\_\_\_\_ deficiency are impaired wound healing, gastrointestinal bleeding and sore and bleeding oral tissues.
9. The carbohydrate in DNA is \_\_\_\_\_.
10. The two units of the disaccharide sucrose are fructose and \_\_\_\_\_.
11. The oxygen carrying molecule myoglobin consists of only one polypeptide chain, hence it lacks \_\_\_\_\_ structure.
12. In plant cells, digestion of fats occurs with the help of \_\_\_\_\_.
13. When the \_\_\_\_\_ of atoms are completely full they are in the most stable state.
14. The hormone that is secreted by the stomach when empty and stimulates appetite is \_\_\_\_\_.
15. On a per weight basis the \_\_\_\_\_ component of diet generates most energy.
16. A cross in which parents differ in a single character is called a \_\_\_\_\_.
17. The \_\_\_\_\_ allele is expressed in the  $F_1$ .
18. \_\_\_\_\_ is the initiation codon during translation in eukaryotes.
19. In prokaryotes the enzyme responsible for continuing DNA synthesis after initiation is \_\_\_\_\_.
20. Selfing of  $F_1$  produces \_\_\_\_\_ generation.

**ST. ANTHONY'S COLLEGE, SHILLONG**  
**ENTRANCE TESTS FOR ADMISSION INTO PROFESSIONAL**  
**UNDERGRADUATE COURSES - 2016**  
**B.Sc. BIOTECHNOLOGY**

Answer Sheet for Section A

TEST ROLL NO:

	a	b	c	d
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Number of Correct answers	
Number of wrong answers	
Total =	

Invigilator's Signature \_\_\_\_\_