

N.SRIRAM..SSPGHSS	TEST NO:1
SSLC-SCIENCE (E/M)	MARKS=10x1=10
QUARTERLY PORTIONS CHOOSE	TIME:10 minute

- Inertia of a body depends on
 - weight of the object
 - acceleration due to gravity of the planet
 - mass of the object
 - Both a & b
- Where should an object be placed so that a real and inverted image of same size is obtained by a convex lens
 - f
 - 2f
 - infinity
 - between f and 2f
- If a substance is heated or cooled, the linear expansion occurs along the axis of
 - X or -X
 - Y or -Y
 - both (a) and (b)
 - (a) or (b)
- Mass of 1 mole of Nitrogen atom is
 - 28 amu
 - 14 amu
 - 28 g
 - 14 g
- Chemical formula of rust is _____.
 - $\text{FeO} \cdot x\text{H}_2\text{O}$
 - $\text{FeO}_4 \cdot x\text{H}_2\text{O}$
 - $\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$
 - FeO
- When pressure is increased at constant temperature the solubility of gases in liquid _____.
 - No change
 - increases
 - decreases
 - no reaction
- Oxygen is produced at what point during photosynthesis ?
 - when ATP is converted to ADP
 - when CO_2 is fixed
 - when H_2O is splitted
 - All of these
- The animals which give birth to young ones are
 - Oviparous
 - Viviparous
 - Ovoviviparous
 - All the above
- Which one of the following regarding blood composition is correct
 - Plasma - Blood + Lymphocyte
 - Serum - Blood + Fibrinogen
 - Lymph - Plasma + RBC + WBC
 - Blood - Plasma + RBC + WBC + Platelets
- There are pairs of cranial nerves and pairs of spinal nerves.
 - 12, 31
 - 31, 12
 - 12, 13
 - 12, 21
- Which one of the following hormones is naturally not found in plants:
 - 2, 4-D
 - GA3
 - Gibberellin
 - IAA

N.SRIRAM..SSPGHSS	TEST NO:4
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31. The number of periods and groups in the periodic table are _____.
a) 6,16 b) 7,17 c) 8,18 d) 7,18
32. A solution is a _____ mixture.
a. homogeneous b. heterogeneous
c. homogeneous and heterogeneous d. non homogeneous
33. Casparian strips are present in the _____ of the root.
a) cortex b) pith c) pericycle d) endodermis
34. In leech locomotion is performed by
a) Anterior sucker b) Posterior sucker c) Setae
d) Contraction and relaxation of muscles
35. Active transport involves
a) movement of molecules from lower to higher concentration
b) expenditure of energy c) it is an uphill task
d) all of the above
36. Bipolar neurons are found in
(a) retina of eye (b) cerebral cortex
(c) embryo (d) respiratory epithelium
37. Gibberellins cause:
a) Shortening of genetically tall plants
b) Elongation of dwarf plants
c) Promotion of rooting d) Yellowing of young leaves
38. The plant which propagates with the help of its leaves is
a) Onion b) Neem c) Ginger d) Bryophyllum
39. According to Mendel alleles have the following character
a) Pair of genes b) Responsible for character
c) Production of gametes d) Recessive factors
40. The number of chromosomes found in human beings are _____.
a) 22 pairs of autosomes and 1 pair of allosomes.
b) 22 autosomes and 1 allosome c) 46 autosomes
d) 46 pairs autosomes and 1 pair of allosomes.

N.SRIRAM..SSPGHSS	TEST NO:5
SSLC-SCIENCE (E/M)	MARKS=10x1=10
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41. The large elongated cells that provide nutrition to developing sperms are

- a) Primary germ cells b) Sertoli cells
c) Leydig cells d) Spermatogonia

42. Which organ acts as both exocrine gland as well as endocrine gland

- a) Pancreas b) Kidney c) Liver d) Lungs

43. Nerve cells do not possess

- (a) neurilemma (b) sarcolemma (c) axon (d) dendrites

44. A patient with blood group O was injured in an accident and has blood loss. Which blood group the doctor should effectively use for transfusion in this condition?

- a) O group b) AB group c) A or B group
d) all blood group

45. Plotting a graph for momentum on the X-axis and time on Y-axis. slope of momentum- time graph gives

- a) Impulsive force b) Acceleration c) Force d) Rate of force

46. The body of leech has

- a) 23 segments b) 33 segments c) 38 segments
d) 30 segments

47. Which is formed during anaerobic respiration

- a) Carbohydrate b) Ethyl alcohol c) Acetyl CoA d) Pyruvate

48. Deliquescence is due to _____

- a. Strong affinity to water b. Less affinity to water
c. Strong hatred to water d. Inertness to water

49. The number of components in a binary solution is ____.

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

50. If the Earth shrinks to 50% of its real radius its mass remaining the same, the weight of a body on the Earth will

- a) decrease by 50% b) increase by 50%
c) decrease by 25% d) increase by 300%

N.SRIRAM..SSPGHSS	TEST NO:6
SSLC-SCIENCE (E/M)	MARKS=10x1=10
QUARTERLY PORTIONS CHOOSE	TIME:10 minute

51. Neon shows zero electron affinity due to _____.
 a) stable arrangement of neutrons b) stable configuration of electrons
 c) reduced size d) increased density
52. _____ group contains the member of halogen family.
 a) 17th b) 15th c) 18th d) 16th
53. The gram molecular mass of oxygen molecule is
 a. 16 g b. 18 g c. 32 g d. 17 g
54. In which of the following sport the turning of effect of force used
 a) swimming b) tennis c) cycling d) hockey
55. A small bulb is placed at the principal focus of a convex lens. When the bulb is switched on, the lens will produce
 a) a convergent beam of light b) a divergent beam of light
 c) a parallel beam of light d) a coloured beam of light
56. Which of the following statement is incorrect?
 a. One gram of C – 12 contains Avogadro's number of atoms.
 b. One mole of oxygen gas contains Avogadro's number of molecules.
 c. One mole of hydrogen gas contains Avogadro's number of atoms.
 d. One mole of electrons stands for 6.023×10^{23} electrons.
57. Temperature is the average _____ of the molecules of a substance
 a) difference in K.E and P.E b) sum of P.E and K.E
 c) difference in T.E and P.E d) difference in K.E and T.E
58. A 25% alcohol solution means
 a. 25 ml alcohol in 100 ml of water
 b. 25 ml alcohol in 25 ml of water
 c. 25 ml alcohol in 75 ml of water
 d. 75 ml alcohol in 25 ml of water
59. The xylem and phloem arranged side by side on same radius is called _____
 a) radial b) amphivasal c) conjoint d) None of these
60. Which of the following lens would you prefer to use while reading small letters found in a dictionary?
 a) A convex lens of focal length 5 cm
 b) A concave lens of focal length 5 cm
 c) A convex lens of focal length 10 cm
 d) A concave lens of focal length 10 cm

N.SRIRAM..SSPGHSS	TEST NO:7
SSLC-SCIENCE (E/M)	MARKS=10x1=10
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61. Newton's III law is applicable

- a) for a body is at rest b) for a body in motion
c) both a & b d) only for bodies with equal masses

62. A convex lens forms a real, diminished point sized image at focus. Then the position of the object is at

- a) focus b) infinity c) at $2f$ d) between f and $2f$

63. If a substance is heated or cooled, the change in mass of that substance is

- a) positive b) negative c) zero d) none of the above

64. The volume occupied by 1 mole of a diatomic gas at S.T.P is --.

- a. 11.2 litre b. 5.6 litre c. 22.4 litre d. 44.8 litre

65. The basis of modern periodic law is _____.

- a) atomic number b) atomic mass
c) isotopic mass d) number of neutrons

66. Which of the following is the universal solvent?

- a. Acetone b. Benzene c. Water d. Alcohol

67. The brain of leech lies above the

- a) Mouth b) Buccal Cavity c) Pharynx d) Crop

68. During transpiration there is loss of

- a) carbon dioxide b) oxygen
c) water d) none of the above

69. Site for processing of vision, hearing, memory, speech, intelligence and thought is

- (a) kidney (b) ear (c) brain (d) lungs

70. The hormone which has positive effect on apical dominance is:

- a) Cytokinin b) Auxin c) Gibberellin d) Ethylene

N.SRIRAM..SSPGHSS	TEST NO:8
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71. The essential parts of a flower are _____ .
 a) Calyx and Corolla b) Calyx and Androecium
 c) Corolla and Gynoecium d) Androecium and Gynoecium
72. The region of the chromosome where the spindle fibres get attached during cell division
 a) Chromomere b) Centrosome c) Centromere d) Chromonema
73. A single highly coiled tube where sperms are stored, get concentrated and mature is known as
 a) Epididymis b) Vasa efferentia
 c) Vas deferens d) Seminiferous tubules
74. Which of the following have inert gases 2 electrons in the outermost shell.
 a) He b) Ne c) Ar d) Kr
75. In reflex action, the reflex arc is formed by
 (a) brain, spinal cord, muscle
 (b) receptor, muscle, spinal cord
 (c) muscle, receptor, brain
 (d) receptor, spinal cord, muscle
76. Identify the exocrine gland
 a) Pituitary gland b) Adrenal gland c) Salivary gland
 d) Thyroid gland
77. Which of the following represents 1 amu?
 a. Mass of a C – 12 atom b. Mass of a hydrogen atom
 c. 1/12th of the mass of a C – 12 atom
 d. Mass of O – 16 atom
78. Vomiting centre is located in
 (a) medulla oblongata (b) stomach (c) cerebrum (d) hypothalamus
79. Identify the non aqueous solution.
 a. sodium chloride in water b. glucose in water
 c. copper sulphate in water
 d. sulphur in carbon-di-sulphide
80. Which is the sequence of correct blood flow
 a) ventricle - atrium - vein – arteries
 b) atrium - ventricle - veins – arteries
 c) atrium - ventricle - arteries – vein
 d) ventricles - vein - atrium - arteries

N.SRIRAM..SSPGHSS	TEST NO:11
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101. The neurons which carries impulse from the central nervous system to the muscle fibre.

- (a) afferent neurons (b) association neuron
(c) efferent neuron (d) unipolar neuron

102. Which of the following process requires energy?

- a) active transport b) diffusion c) osmosis d) all of them

103. In the alumino thermic process the role of Al is _____.

- a) oxidizing agent b) reducing agent
c) hydrogenating agent d) sulphurising agent

104. The volume occupied by 4.4 g of CO₂ at S.T.P

- a. 22.4 litre b.2.24 litre c. 0.24 litre d.0.1 litre

105. Power of a lens is $-4D$, then its focal length is

- a) 4m b) $-40m$ c) $-0.25 m$ d) $-2.5 m$

106.The unit of 'g' is $m s^{-2}$. It can be also expressed as

- a) $cm s^{-1}$ b) $N kg^{-1}$ c) $N m^2 kg^{-1}$ d) $cm^2 s^{-2}$

107. 9 : 3 : 3 : 1 ratio is due to

- a) Segregation b) Crossing over
c) Independent assortment d) Recessiveness

108. Syngamy results in the formation of _____ .

- a) Zoospores b) Conidia c) Zygote d) Chlamydospores

109. Avena coleoptile test was conducted by

- a) Darwin b) N. Smit c) Paal d) F.W. Went

110. The outer most of the three cranial meninges is

- (a) arachnoid membrane (b) piamater
(c) duramater (d) myelin sheath

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121. The outer most of the three cranial meninges is

- (a) arachnoid membrane (b) piamater
(c) duramater (d) myelin sheath

122. Chemical formula of rust is _-----.

- a) $\text{FeO} \cdot x\text{H}_2\text{O}$ b) $\text{FeO}_4 \cdot x\text{H}_2\text{O}$ c) $\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$ d) FeO

123. Which of the following is correct?

- a) Rate of change of charge is electrical power.
b) Rate of change of charge is current.
c) Rate of change of energy is current.
d) Rate of change of current is charge.

124. One kilogram force equals to

- a) 9.8 dyne b) $9.8 \times 10^4 \text{ N}$ c) $98 \times 10^4 \text{ dyne}$ d) 980 dyne

125. SI unit of resistance is

- a) mho b) joule c) ohm d) ohm meter

126. The neurons which carries impulse from the central nervous system to the muscle fibre.

- (a) afferent neurons (b) association neuron
(c) efferent neuron (d) unipolar neuron

127. In a simple circuit, why does the bulb glow when you close the switch?

- a) The switch produces electricity.
b) Closing the switch completes the circuit.
c) Closing the switch breaks the circuit.
d) The bulb is getting charged

128. Which is the sequence of correct blood flow

- a) ventricle - atrium - vein – arteries
b) atrium - ventricle - veins – arteries
c) atrium - ventricle - arteries – vein
d) ventricles - vein - atrium - arteries

129. Temperature is the average _____ of the molecules of a substance

- a) difference in K.E and P.E b) sum of P.E and K.E
c) difference in T.E and P.E d) difference in K.E and T.E

130. Kilowatt hour is the unit of

- a) resistivity b) conductivity
c) electrical energy d) electrical power