



**GOVT OF KARNATAKA**

**CHAMARAJANAGARA ZILLA PANCHAYATH**

**OFFICE OF THE DEPUTY DIRECTOR OF PUBLIC INSTRUCTION  
CHAMARAJANAGAR DISTRICT CHAMARAJANAGARA**

**COLLABORATION**

**DISTRICT INSTITUTE OF EDUCATION AND TRAINING  
CHAMARAJANAGARA**

**Multiple Choice Question Based  
Model Question Papers  
SSLC Examination 2020-21**

**SCIENCE**



48. The function of the commutator is \_\_\_\_\_
- A) Increases the flow of electric Current  
 B) Decreases the flow of electric current  
 C) Current flows in the forward direction  
 D) Reverses the direction of flow of current
49. Where the image formed, when an object placed beyond  $2F_1$  of a convex lens ?
- A) In between  $F_2$  and  $2F_2$   
 B)  $2F_2$   
 C) Beyond  $2F_2$   
 D) At infinity
50. The power of a concave lense of focal length 2m
- A) +0.5D  
 B) -0.25D  
 C) +0.5D  
 D) -0.5D

51. Observe the given table

In material Medium	Refractive index
P	1.52
Q	1.44
R	2.42
S	1.33

In which Material medium the speed of light is very low?

- A) Q  
 B) S  
 C) R  
 D) P
52. What happens when a ray of light passes through the optical centre of the lens
- A) Refracted from convex lens  
 B) The light passes through focal length of other side of the lens  
 C) Ray of light travelling parallel to principle axis after refraction in concave lens  
 D) Ray of light that are travelling parallel o its principal axis
53. Function of solar cell is \_\_\_\_\_
- A) Converts solar energy into heat energy  
 B) Converts heat energy into electrical energy  
 C) Converts solar energy into electrical energy  
 D) Converts solar energy into Chemical energy
54. A Turbine cannot be rotated by
- A) Flowing water  
 B) Heat of sun  
 C) Steam  
 D) Moving wind

55. As the pH value of solution decreases  
A) Number of  $\text{OH}^-$  ions increases    B) Number of  $\text{H}^+$  ions increases  
C) Number of  $\text{H}^+$  ions decreases    D) Equal number of  $\text{OH}^-$  and  $\text{H}^+$  ions
56. Which of the following is used for treating indigestion  
A) Antibiotic    B) Analgesic  
C) Antacid    D) Antiseptic
57. The acid present in the stinging hair of nettle leaves that causes burning pain  
A) Citric acid    B) Acetic acid  
C) Methanoic acid    D) Tartaric acid
58. The process used to convert metal carbonates into oxides is  
A) Calcination    B) Roasting  
C) Refining    D) Reduction
59. Which of the following methods is suitable for preventing an iron frying pan from rusting?  
A) Applying grease    B) Applying paint  
C) Applying a coating of zinc    D) All of the above
60. Components of an alloy solder  
A) Copper & Tin    B) Lead & Tin  
C) Copper & Zinc    D) Copper & Aluminum
61. The functional group present in the Butanone is \_\_\_\_\_  
A) Carboxylic acid    B) Aldehyde  
C) Ketone    D) Alcohol
62. Unsaturated Compounds are \_\_\_\_\_  
i) Propane    ii) Propene  
iii) Propyne    iv) Chloropropane  
A) i & ii    B) ii & iv  
C) i & iv    D) ii & iii
63. The self-linkage of carbon, carbon atoms to form large chains is called  
A) Isomerism    B) Allotropes

- C) Catenation  
D) Hydrogenation
64. General formula of alkane  
A)  $C_nH_{2n+2}$   
B)  $C_nH_{2n}$   
C)  $C_nH_{2n-2}$   
D)  $C_nH_{2n-1}$
65. On what basic Mendeleev Constructed the periodic table  
A) Atomic mass number  
B) Atomic number  
C) Number of Neutrons  
D) All of the above
66. Which two elements are placed in the same slot in Newlands Octaves table.  
A) Cobalt & Nickel  
B) Copper and Nickel  
C) Nickel & Chromium  
D) Cobalt & Chromium
67. Blood vessels that carry blood from all parts of the human body to the heart are  
A) Arteries  
B) Veins  
C) Capillaries  
D) Pulmonary Arteries
68. The Correct path of oxygenated blood from the lungs to the heart  
A) Pulmonary artery → Right atrium → Right auricle  
B) Pulmonary artery → Right ventricle → Right auricle  
C) Pulmonary vein → Left ventricle → Left auricle  
D) Pulmonary vein → Left atrium → Left ventricle
69. By this process, the plants loses excess of water from its body  
A) Photosynthesis  
B) Transpiration  
C) Respiration  
D) Diffusion
70. The part of the brain maintain body balance is  
A) Cerebellum  
B) Cerebrum  
C) Pons  
D) Medulla
71. Movement of sunflower towards the direction of sun is \_\_\_\_\_  
A) Geotropism  
B) Hydrotropism  
C) Chemotropism  
D) Phototropism
72. Hormone which inhibits the growth of plant is \_\_\_\_\_  
A) Gibberlin  
B) Cytokinin  
C) Auxin  
D) Absciscic acid



### Key answers

41	42	43	44	45	46	47	48	49	50
D	B	A	D	B	D	B	D	A	D
51	52	53	54	55	56	57	58	59	60
C	C	C	B	B	C	C	A	C	B
61	62	63	64	65	66	67	68	69	70
C	D	C	A	A	A	B	D	B	A
71	72	73	74	75	76	77	78	79	80
D	D	B	B	D	D	D	B	B	D

**Department of Public Instruction, Chamarajanagar**  
**District Institute of Educational Training,**  
**Chamarajanagar**  
**2020-21 SSLC Science Model Question paper - 02**

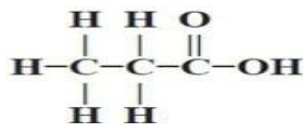
**Marks : 40**

Answer the following sentences / incomplete sentences by choosing the correct answer below

- 41 The  $P^H$  of four acids P,Q,R,S are 2,5,3,6 which one of the above is strong acid  
A) P                      B) Q                      C) R                      D) S
- 42 The two products produced during neutralization reaction is  
A) Water and salt    B) salt and Hydrogen    C) Water and Hydrogen    D) Water and carbon di oxide
- 43 Bases changes the litmus paper colour  
A) Red-blue            B) Blue – Red            C) Green – Yellow            D) Red – Green
- 44 In the reactivity series, more reactive and less reactive elements respectively  
A) Na,Au                      B) K, Au                      C) Ca, Cu                      D) Zn, K
- 45 the characteristic of ionic compound is  
A) Dissolved in water    B) High melting point and boiling point    C) solid state  
D) all the above
- 46 An alloy made up of mixture of Copper and Tin is  
A) Brass                      B) Bronze                      C) Soldering metal                      D) Amalgam
- 47 The correct electron dot structure of Nitrogen is  
A)  $\cdot \cdot \text{N} \cdot \cdot \cdot \cdot \text{N} \cdot \cdot$     B)  $\cdot \cdot \text{N} \cdot \cdot \cdot \cdot \text{N} \cdot \cdot$     C)  $\cdot \cdot \text{N} \cdot \cdot \cdot \cdot \text{N} \cdot \cdot$     D)  $\cdot \cdot \text{N} \cdot \cdot \cdot \cdot \text{N} \cdot \cdot$
- 48 The catalyst used in hydrogenation of oil is  
A) Sodium                      B) Potassium permanganate                      C) Nickle                      D) Chlorine
- 49 The bottom of cooking vessel is black, it means  
A) Food is incompletely cooked                      B) Incomplete combustion of fuel  
C) Fuel is wet or moist                      D) Complete combustion of fuel



50 The functional group present in this compound is



- A) Aldehyde    B) Alcohol    C) Ketone    D) Carboxylic acid

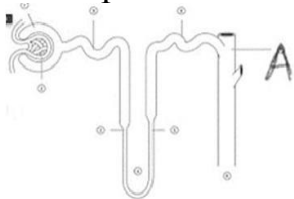
51 The element not belong to 18<sup>th</sup> group is

- A) Helium    B) Neon    C) Carbon    D) Argon

52 Sodium, Potassium, Magnesium, Rubidium are arranged in the increasing order of their atomic radii is

- A) Mg < K < Na < Rb    B) Mg < Na < K < Rb  
C) Mg < Na < Rb < K    D) Na < K < Rb < Mg

53 The part "A" labelled in the Nephron is



- A) Bowman capsule    B) Glomerulus    C) collection duct    D) Capillary

54 A person is having wounds which is not healing due to more sugar in the blood. The hormone which control sugar in blood is

- A) Thyroxin    B) Adrenaline    C) Insulin    D) Growth hormone

55 The group which contains only biodegradable substance is

- A) Wood, Fruit peel, plastic cover    B) Wood, lemon juice, flower  
C) Fruit peel, grass, plastic chair    D) DDT, skin, wood

56 The parts present in the female part of flower is

- 1) Stigma    2) Anther    3) Ovary    4) Style  
A) 1,3 & 4 only    B) 1,2,& 3 only    C) 1 & 4 only    D) 1,2,3,& 4 all

57 Old wood furnitures are used by painting warnish is

- A) Recycling    B) Re use    C) Re purpose    D) Reduce

58 Heridity Index can select new species in nature because

- A) Variation    B) Survival    C) Similarity    D) gene

- 59 The method of avoiding floods is  
A) Aforestation      B) Remove top soil  
C) Cutting of trees      D) Cultivate in agricultural land
- 60 The special tissue which transfer nutrition through blood from mother to growing baby is  
A) Uterus      B) Fallopian tube      C) placenta      D) Ovary
- 61 Superior and inferior venacava transfer blood from  
A) Heart to cells      B) Cells to Heart      C) Heart to lungs      D) Lungs to Heart
- 62 In mendel experiments the ratio of dihybrid cross in  $F_2$  generation is  
A) 3:1      B ) 9:3:3:1      C) 2:1      D) 9:3:1
- 63 The harmone which control puberty characteristics in male is produced by the part  
A) Prostate gland      B) Scrotum      C) Seminal vesicles      D) Testis
- 64 Centre of reflex action is  
A) Fore brain      B) Cerebellum      C) pons      D) Spinal cord
- 65 The sex chromosome responsible for detecting a child sex in father is  
A) X- boy      B) Y-Girl      C) X-girl      D) Y-girl and boy
- 66 Blood pressure, salivary secretion, vomiting are involuntary actions controlled by the brain part  
A) Cerebellum      B) Medulla      C) Cerebrum      D) pons
- 67 The SI unit of resistance is  
A) Amphere      B) Ohm      C) Coloumb      D) volt
- 68 In Flemings left hand rule, middle finger indicates  
A) Direction of magnetic feild      B) Direction of induced current  
C) Direction of current      D) Direction of motion of conductor
- 69 A place in which an highly enlarged ,real and inverted image obtain from the convex lense is  
A) Between  $F_1$  and O      B) At  $2F_1$       C) At  $F_1$       D) Between  $F_1$  and  $2F_1$

70 Snell's law is related to

- A) Refraction of light      B) Reflection of light  
C) Dispersion of light      D) Absorption of light

71 which one is not a characteristic of good fuel

- A) Do large amount of workdone per unit volume (or) mass      B) Easily available  
c) Easily storage and Transport      D) High cost

72 How much work is done in a moving a charge of 2C across two points having a Potential difference is 12V?

- A) 24J      B) 6J      C) 14J      D) 10J

73 Which one is not the characteristic of magnetic lines

- A) Magnetic field lines are crowded in poles  
B) The magnetic field lines are closed curves  
C) No two field-lines are found to cross each other  
D) The magnetic field-lines emerge from south pole and merge at the north pole

74 The colour of live wire in the domestic electrical circuit is

- A) Green      B) Blue      C) Red      D) black

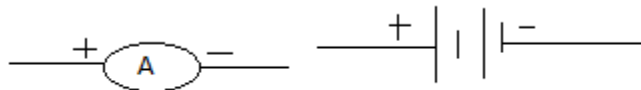
75 An object is placed at a distance of 30cm from a diverging lense of focal length 15cm. The image distance and magnification respectively.

- A) -10Cm &      B) +10Cm & 3      C) +10Cm & 0.33      D) -10Cm & 0.33

76 The formula of ohm's law is

- A)  $V=IT$       B)  $H=IRT$       C)  $V=RI$       D)  $H=I^2RT$

77 The above circuit indicates respectively



- A) Ammeter and Battery      B) Voltmeter and Battery  
C) Ammeter and Electric bulb      D) Voltmeter and Ammeter

78 Major gas present in Biogas is

- A) Methane      B) Carbon di oxide  
C) Hydrogen      D) Hydrogen sulphide

79 Safety measure to take to avoid overload from the circuit

- A) Many appliances are connected to single socket
- B) Many appliances are connected to the different socket
- C) Many appliances are not use at a time
- D) B and C are correct

80 In which medium, light travels fastly

Medium	Refractive Index
Air	1.0003
Ice	1.31
Kerosene	1.44
Diamond	2.42

- A) Diamond -2.42
- B) Air -1.0003
- C) Ice-1.31
- D) Kerosene -1.44

## Key Answers

41	42	43	44	45	46	47	48	49	50
A	A	A	B	D	B	C	C	B	D
51	52	53	54	55	56	57	58	59	60
C	B	C	C	B	A	B	A	A	C
61	62	63	64	65	66	67	68	69	70
B	B	D	D	C	B	B	C	C	A
71	72	73	74	75	76	77	78	79	80
D	A	D	C	D	C	A	A	D	B

**Department of Public Instruction, Chamarajanagar**  
**District Institute of Educational Training,**  
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**2020-21 SSLC Science Model Question paper - 03**

**Marks : 40**

- 
41. The element used for making solar cells is \_\_\_\_\_  
A. Sulphur      B. Phosphorous      C. Zirconium      D. Silicon
42. The opposition to flow of electric current is called \_\_\_\_\_  
A. Volt      B. Electric current      C. Resistance      D. Ampere
43. The function of electric generator is it  
A. Reverses the direction of current  
B. Converts electric energy into mechanical energy  
C. Detects presence of electric current in the circuit  
D. Converts mechanical energy into electrical energy
44. Concave lens always produces  
A. erect, diminished and real image  
B. inverted, diminished and real image  
C. erect, enlarged and virtual image  
D. erect, diminished and virtual image
45. S I Unit of electric charge is \_\_\_\_\_  
A. Joule      B. Volt      C. Coulomb      D. Ampere
46. A Ray of light is travelling from a rarer medium to a denser medium. While entering the denser medium at the point of incidence, it  
A. Goes straight into the second medium      B. Bends towards the normal  
C. Bends away from the normal      D. Does not enter at all

47. The Main component of bio gas is \_\_\_\_\_

- A. Propane                      B. Butane                      C. Ethane                      D. Methane

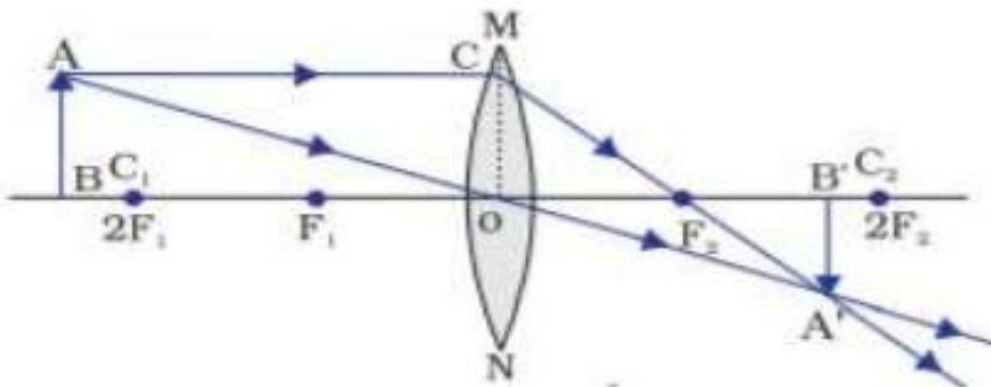
48. In Fleming's left hand rule middle finger indicates the direction of the

- A. Magnetic field                      B. Electric current induced in conductor  
C. Electric current                      D. Movement of the conductor

49. An electric bulb is connected to a 220 V generator. The current flowing in the bulb is 0.50A Then the power of the bulb is\_\_\_\_\_

- A. 1100W                      B. 44W                      C. 110W                      D. 100W

50. From the ray diagram given below identify the position and nature of the image



A.

Between F<sub>2</sub> and 2F<sub>2</sub>, virtual and inverted

B. Between F<sub>2</sub> and 2F<sub>2</sub>, real and inverted.

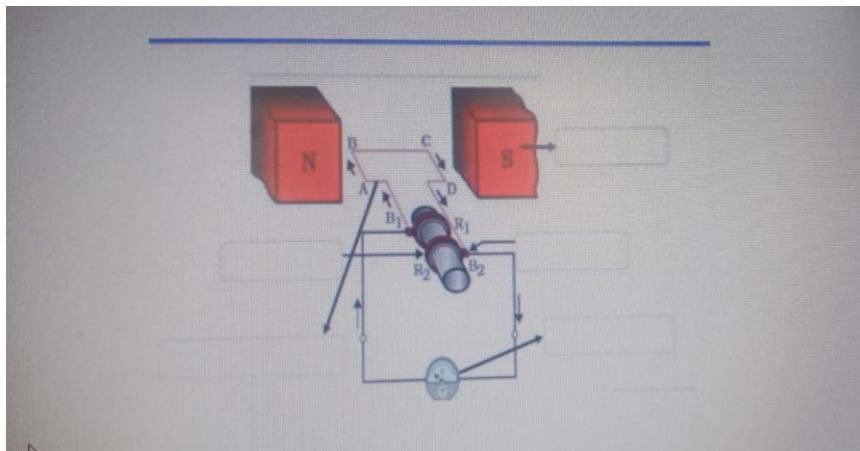
C. Beyond 2F<sub>2</sub>, real and inverted.

D. Beyond 2F<sub>2</sub>, virtual and erect

51. Formula of ohm's law

- A.  $V=IT$                       B.  $H=IRT$                       C.  $V=RI$                       D.  $H=I^2RT$

52. In this diagram R1, R2 and B1,B2 respectively are



- A. Rings and brushes                      B. Rings & magnetic poles  
C. Brushes and magnetic poles            D. Brushes and rings

53. In an electric circuit ammeter is connected in\_\_\_\_\_

- A. Parallel                                      B. Series  
C. Both parallel and series                D. Opposite direction

54. If the radius of curvature of a lens is 30cm, then its focal length will be

- A.60 cm                      B.30cm                      C.15cm                      D.120cm

55. The acid present in the stinging hair of nettle leaves that causes burning pain

- A. Citric acid                      B. Methanoic acid  
C. Tartaric acid                      D. Acetic acid

56. Carbon has the unique ability to form bonds with other atoms of carbon, giving rise to molecules. This property is called

- A .Isomerism      B. Allotropy    C .Catenation    D. Hydrogenation

57. Mendeleevs Periodic table is based on \_\_\_\_\_

- A. Atomic mass                      B. Atomic Number  
C. Number of Neutrons            D. None of these



58. Sita observe a blackish layer on a newly brought silver anklets after 2 month .A gas responsible for this reaction is

- A. Carbon dioxide                      B. Sulphur  
C. Oxygen                                  D. Nitrogen dioxide

59. A compound having high melting point is

- A. Ionic compound                      B. Covalent compound  
C. Carbon compound                    D. All the above

60. General formula of alkynes

- A.  $C_nH_{2n+2}$                       B.  $C_nH_{2n}$                                   C.  $C_nH_{2n-2}$                                   D.  $C_nH_{2n-1}$

61. From 1 gram gold it is possible to make wire up to 2km length ,here property of metal exhibit is

- A. Good conductor of electricity                      B. Malleability  
C. Ductility    D. Sonorous

62. An element X having 2 shells ,reacts with Magnesium and forms a compound MgX. The element X is

- A. Chlorine                                  B. Boron    C. Sulphur    D. Oxygen

63. The pH of four acids namely P, Q, R, S is 2, 5, 3, 6 respectively. The strongest acid among these acids is

- A. P    B. Q    C. R    D. S

64. Name of the organic compound having molecular formula  $CH_3CH_2Br$  is

- A. Bromoethane                      B. Chloroethane                      C. Ethanone                                  D. Ethanal

65. Butanone is a four - carbon compound with the functional group

- A. Carboxylic acid                      B. Aldehyde                                  C. Ketone    D. Alcohol

66. An alloy having constituents of lead and Tin is

- A. Bronze    B. Brass    C. Solder    D. Stainless steel

67. Functional unit of nervous system is

- A. Axon                      B. Nephron                      C. Neuron                      D. Synapse

68. In human males the testes lie in the scrotum outside the body because the production of sperms needs

- A. low temperature                      B. more nutrition  
C. more temperature                      D. For more blood supply

69. In human beings, the paternal chromosome determines the sex of the child in this way

- A.X                      B.Y                      C.Z                      D.O

70. The substance responsible for the depletion of ozone layer

- A. CFC                      B. CCF                      C. HDFC                      D. KFC

71. The biodiversity hot spot is found in

- A. Rivers                      B. Forests                      C. Deserts                      D. Oceans

72. A blood vessel which carries the blood from the heart to the entire body

- A. Artery                      B. Capillary                      C. Vein                      D. Hemoglobin

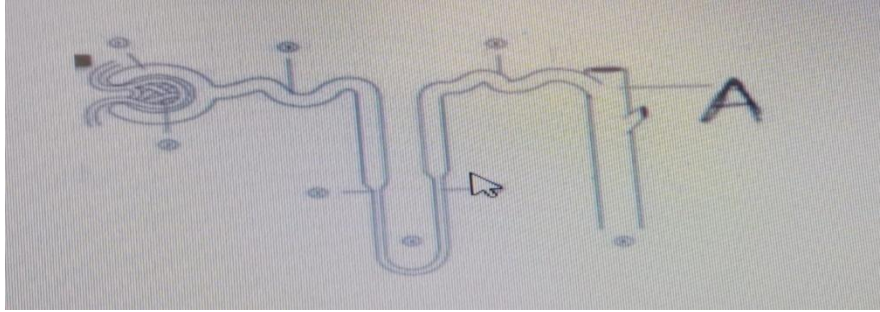
73. Which structure among the following connects the foetus to the mother's blood?

- A. Fallopian tube                      B. Uterus                      C. Placenta                      D. Ovary

74. Analogous organs have,

- A. Same structure and same function                      B. Same structure and different functions.  
C. Different structures and same function.                      D. Different structures and different functions

75. In this diagram of nephron name the part which is marked as “A”



A. Bowman's capsule

B. Glomerulus

C. collecting duct

D. capillaries

76. Water harvesting is a method which

A. Increase ground water level

B. Not practiced in modern days

C. Has no relation with the groundwater

D. Decrease groundwater level.

77. The part that contains the male gametes in the flower is

A. Ovary

B. Anther

C. Stigma

D. Filament

78. One person is having slow recovery from wounds because of more sugar level in blood, the hormone responsible for this problem is secreted by

A. Thyroid

B. Adrenal

C. Pancreas

D. Pituitary

79. In Mendel's experiments monohybrid ratio in F<sub>2</sub> progeny is

A. 3:1

B. 9:3:3:1

C. 2:1

D. 9:3:1

80. The hormone increases blood flow, heart beat and makes ready to the situation is

A. Thyroxin

B. Adrenaline

C. Oestrogen

D. Insulin

## Key Answers

41	42	43	44	45	46	47	48	49	50
D	C	D	D	C	C	D	A	C	D
51	52	53	54	55	56	57	58	59	60
C	A	B	C	B	C	A	B	A	C
61	62	63	64	65	66	67	68	69	70
C	D	A	A	C	C	C	A	B	A
71	72	73	74	75	76	77	78	79	80
B	A	C	C	C	A	B	C	A	B

**Department of Public Instruction, Chamarajanagar**  
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**Chamarajanagar**  
**2020-21 SSLC Science Model Question paper - 04**

**Marks : 40**

**Four choices are given for each of the questions. Choose the right answer for the -following:**

41. The material used to protect electric circuits and electrical devices

- A. ammeter      B. fuse      C. commutator      D. galvanometer

42. The position of the image obtained by convex lens when object is kept beyond  $2F_1$  ( $F$ : principal focus of the convex lens)

- A. between  $F_2$  and  $2F_2$       B. at  $2F_2$   
C. beyond  $2F_2$       D. at infinity

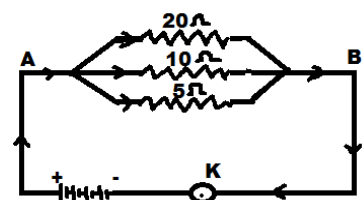
43. The correct sentence related to good sources of energy

- a. easy to available      b. easy to store  
c. more heat efficiency      d. pollution free
- A. a and b      B. a only  
C. a,b and c      D. a,b,c and d

44. In the given circuit the volume of a current transmitted through a  $10\Omega$  resistance with potential difference  $6V$

- A.  $1.2A$       B.  $0.2A$       C.  $2.0A$       D.  
 $0.6A$

45. The function electric motor



A. returns of electric current

B. electrical energy is converted into mechanical energy

C. to find out the presence of electric current in the circuit

D. mechanical energy is converted into electrical energy

46. In which medium the speed of the light decreases

A. air      B. water      c. Ice      D. kerosene

47. When electric current carrying conductor is placed in between magnetic field then mechanical force increases and angle between the current and magnetic field is

A. 300                      B.450                      C. 600                      D.90

48. Among the following energy sources which energy source doesnot use solar energy ?

A. geothermal energy                      B. wind energy

C. nuclear energy                      D. bio mass

49. Which among the following is not a character of concave lens.

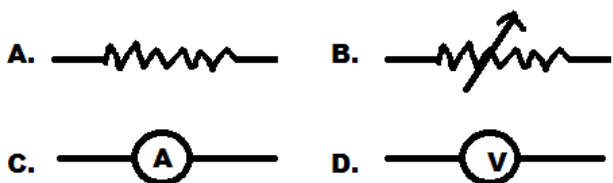
A. scattering of light rays                      B. virtual and erect image is formed

C. Thicker at the middle and edges are thin      D. objects appear small

50. An electric washing machine rated 600W operates 6 hour/day. What is the cost of energy to operate it for 10 days at Rs. 4.00 per kWh?

A. 100 Rs                      B. 120Rs                      C. 134 Rs                      D. 144 Rs

51. Among the following which is used to regulate speed of the fan.



52. Among the four values of resistivity which value is possessed by good conductor?

A.  $1.60 \times 10^{-8}$                       B.  $1.62 \times 10^{-8}$

C.  $2.63 \times 10^{-8}$                       D.  $5.20 \times 10^{-8}$

53. Which of the following produce a Tyndall effect?

A. salt dissolved in water              B. sugar dissolved in water

C. milk is mixed in water              D. sodium hydroxide solution

54. The device works under Direct current

A. mixer                      B. television

C. radio                      D. washing machine

55. The constituents of the alloy Bronge

A. copper and zinc              B. copper and tin

C. lead and tin                      D. copper and nickel

56. The functional group of alcohol and aldehyde

A.  $-OH$  and  $-COOH$                       B.  $-OH$  and  $-CO$

C.  $-OH$  and  $CHO$                       D.  $-OH$  and  $-Br$

57. In a, b and c elements, atomic mass of a is 100 and atomic mass of b is 150 respectively. Then atomic mass of c is

A. 100                      B. 175                      C. 250                      D. 200

58. The acid present in stinging hairs of nettle leaves that causes burning

A. carboxylic acid                      B. methanoic acid

C. citric acid                      D. oxalic acid

59. The ionic end of the soap reacts with  
A. dirt                      B. water                      C. oil                      D. paint
60. The atomic number of an element is 16 which period does it belong to  
A. 2                      B. 3                      C. 4                      D. 1
61. The catalyst used in addition reaction  
A. potassium permanganate                      B. nickel  
C. manganese                      D. potassium dichromate
62. Examples for metalloids  
A. sodium and potassium                      B. silicon and germanium  
C. uranium and thorium                      D. argon and neon
63. The chemical layer produced by magnesium when it is exposed to air  
A. magnesium carbonate                      B. magnesium sulphate  
C. magnesium oxide                      D. magnesium nitrate
64. The gas liberated during the reaction between metal carbonate and acid  
A. hydrogen                      B. nitrogen  
C. oxygen                      D. carbon dioxide
65. Which products are formed when acid reacts with base  
A. salt                      B. water  
C. salt and water                      D. salt and hydrogen
66. Which statement is correct related to atomic size in the modern periodic table  
A. atomic size decreases from left side to right  
B. atomic size increases from left side to right  
C. attraction between nucleus and electron decreases



D. no change

67. The process of water evaporation from aerial parts of the plant body is called

A. transportation

B. transpiration

C. photosynthesis

D. translocation

68. The correct pathway of blood flowing in blood circulatory system

A. veins- atrium- ventricle- artery

B. ventricle-artery-atrium-veins

C. atrium-artery-ventricle-artery

D. artery-veins-ventricle-atrium

69. A person suffering from late wound healing and his blood sugar level variation, the hormone responsible for this is released by

A. thyroid gland

B. adrenal gland

C. pancreas

D. pituitary gland

70. Which part of the brain responsible for voluntary action, equilibrium posture and balance the body?

A. pons

B. cerebrum

C. hypothalamus

D. cerebellum

71. Among the following the function of ovary is

1. production of eggs

2. releases estrogen hormone

3. transport matured egg to uterus

4. development of foetus

A. 1 and 2 only

B. 1 and 3 only

C. 2 and 4 only

D. 3 and 4 only

72. Among the following sexually transmitting disease is

A. hepatitis

B. typhoid

C. malaria

D. syphilis

73. The transfer of pollen grain from stamen of one flower to stigma of the another flower

A. propagation

B. cross pollination

C. fertilization

D. self pollination

74. Round and yellow(RRYY) and wrinkled green(rryy) pea plants are cross pollinated, then the F1 generation is

A. round yellow(RrYy)

B. round green(Rryy)

C. wrinkled green(rryy)

D. wrinkled yellow(rrYy)

75. The plant containing two different traits and express single character the other character which is not expressed is.

A. mixed trait

B. recessive trait

C. dominant trait

D. none of the above

76. Among the following example of analogous organs is

A. cow tail and dog fore arm

B. wings of bird and bat wings

C. bird fore arm and whale fore arm

D. tooth of monkey and ear of fox

77. Advantage of ozone layer is

A. provides oxygen

B. pollution control

C. protects from UV rays

D. provides carbon dioxide

78. Old furniture are used by applying warmish. This is

A. recycling

B. reuse

C. repurpose

D. reduce

79. Adrenaline hormone is also known as emergency hormone because

A. our body will alert while sleeping

B. our will power increases

C. protects from accidents

D. our body faces fear and anger situations

80. This is not a ecofriendly habit

A. usage of bicycle

B. usage of cloth bags

C. use of dust bins

D. burning of wastes

## Key answers

41	B	51	B	61	B	71	A
42	A	52	A	62	D	72	D
43	D	53	C	63	C	73	B
44	D	54	C	64	D	74	A
45	B	55	B	65	A	75	C
46	D	56	C	66	A	76	B
47	D	57	D	67	B	77	C
48	C	58	B	68	A	78	B
49	C	59	B	69	C	79	D
50	D	60	B	70	D	80	D

**Department of Public Instruction, Chamarajanagara**  
**District Institute of Educational Training,**  
**Chamarajanagara**

**2020-21 SSLC Science Model Question paper 05**

**Marks-40**

(41) What is the principal of working of an electric iron box

- (a) heating effect      (b) chemical effect  
(c) magnetic effect    (d) electro magnetic effect

(42) The magnetic field intensity inside solenoid is

- (a) Zero      (b) uniform      (c) irregular      (d) continuous change

(43) Difference between ratio of the height of the image and height of the object

- (a) Power of lens      (b) magnification      (c) lateral displacement      (d)  
focal length

(44) The main component of biogas

- (a) nitrogen      (b) hydrogen      (c) methane      (d) oxygen

(45) ohm's law can be express such as

- (a)  $I=IR$       (b)  $R=VI$       (c)  $I=VR$       (d)  $V=PI$

(46) Place of coin at the bottom of a glass filled with water . the coin appears slightly raised above it's actual position due to light

- (a) reflection      (b) diffraction      (c) color separation      (d) refraction

(47) A device used for electric circuit for safety

- (a) rheostat      (b) fuse      (c) ammeter      (d) switch

(48) The type of energy conversion in solar cell

- (a) solar energy into electrical energy      (b) thermal energy into electrical energy  
(c) light energy into het energy      (d) electrical energy into light energy

(49) An electric device consume 1kw of electric power when operated at 220 v. a fuse wire of what rating must be used

- (a) 4A      (b) 2A      (C) 3A      (D) 5A

- (50) The optical centre is  
(a) optical centre (b) centre of curvature (c) principal axis (d) at infinity
- (51) Relation between power of lens and focal length  
(a)  $p = 2f$  (b)  $p = f/2$  (c)  $p = 1/f$  (d)  $p = 2+f$
- (52) In armature revolution the type flow of current I changed twice is  
(a) direct current (b) alternative current (c) electric charge (d) magnetic field
- (53) Color of the ground earthening cable(wire)  
(a) green (b) black (c) blue (d) red
- (54) A device used to convert mechanical energy to the electrical energy  
(a) electric motor (b) dynamo (c) electric motor (d) magnet
- (55) The acid produced naturally in our stomach  
(a) acetic acid (b) citric acid (c) hydrochloric acid (d) sulphuric acid
- (56) The pH value of acid rain is  
(a) less than 5.6 (b) greater than 10 (c) 7 (d) 5
- (57) A solution turns red litmus to blue color. the pH value of the solution is  
(a) 1 (b) 9 (c) 7 (d) 5
- (58) A compound formed by the transfer of electron from metal to nonmetal  
(a) Hydrogen chloride (b) Magnesium chloride  
(c) Hydrogen sulphide (d) Carbon tetra chloride
- (59) Total number of bonds present in propyne  
(a) 7 (b) 8 (c) 9 (d) 10
- (60) The first member of cycloalkane is  
(a) methane (b) ethane (c) propane (d) cyclopropane

(61) Correct decreasing order of activity of metal

(a)  $\text{Fe} > \text{Zn} > \text{Al} > \text{Mg}$       (B)  $\text{Mg} > \text{Al} > \text{Zn} > \text{Fe}$

(c)  $\text{Zn} > \text{Fe} > \text{Al} > \text{Mg}$       (d)  $\text{Al} > \text{Mg} > \text{Fe} > \text{Zn}$

(62) The atom contains three shells and four valence electrons is

(a) carbon    (b) silicon    (c) sulphur    (d) phosphorous

(63) Liquid non metal is

(a) iodine              (b) oxygen              (c) bromine              (d) hydrogen

(64) This element is most easily lose its electron

(a) Ca              (b) Na              (c) K              (d) Mg

(65) The simple hydrocarbon

(a) methane              (b) ethane              (c) propane              (d) cyclopropane

(66) Valency of carbon atom is

(a) 6              (b) 4              (c) 2              (d) 3

(67) The phloem tissue is responsible for the transport of

(a) water              (b) water and minerals              (c) glucose              (d) all of above

(68) The unit helps to clotting of blood

(a) platelets              (b) white blood cells              (c) red blood cells              (d) plasma

(69) The hormone which inhibit the growth of plant body

(a) auxin              (b) gibberellins              (c) ethylene              (d) cytokinin

(70) The process of removing of waste product by living organism is known as

(a) excretion              (b) digestion              (c) circulation              (d) respiration

(71) The major part of brain is





## Key Answers

41. A	42. B	43. B	44. C	45. A	46. D	47. .B	48. A	49. D	50. A
51. C	52. .B	53. A	54. B	55. C	56. A	57. B	58. B	59. B	60. D.
61 .A	62. B	63 .C	64. C	65 .A	66 .B	67. C	68. A	69. D	70. A
71 .B	72 .C	73. B	74. B	75. A	76. A	77. B	78. B	79. B	80. C