OFFICE OF THE DEPUTY DIRECTOR PUBLIC INSTRUCTION, TUMKUR (D) DISTRICT.
CLASS -10
Max Marks - 40
CODE NO:83K/E
TIME ;1 Hour

## MULTIPLE CHOICE QUESTION BASED PRACTICE PAPER- 1

2020-21
Subject : science.
English medium
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Four choices are given for each of the questions / incomplete statements choose the correct answer and shade the correct choice in the OMR given to you with blue or black ball point pen.
41. Identify the correct experimental setup for verification of Ohm's law

A. A
B. $B$
C. A and B
D. None of the above
42. A unit used to measure the flow of current is
A. Watt
B. Coulomb
C. Volt
D. Ampere
43. The energy transferred by a 100 W electric bulb in 1 minute is
A. 100 J
B. 600 J
C. 3600 J
D. 6000 J
44. The potential difference across a $3 \Omega$ resistor is 6 V . the current flow in the resistor will be
A. $1 / 2 \mathrm{~A}$
B. 1 A
C. 2 A
D. 6 A
45. When the diameter of a wire is doubled, its resistance becomes
A. Double
B. Four times
C. One-half
D. One-fourth
46. The rule which indicates the magnetic field in a current carrying straight conductor is
A. Right hand thumb rule
B. Fleming's Left-hand rule
C. Fleming's right -hand rule
D. Screw rule
47. The magnetic field intensity inside a solenoid is
A. Zero
B. Medium
C. Low
D. High
48. The Part of a motor which change the direction of flow of current is
A. Armature
B. Brushes
C. Split rings
D. Magnets
49. The main component of biogas
A. Methane
B. Carbon dioxide
C. Hydrogen
D. Hydrogen sulphide

50 . Optimal wind speed for power generation from wind mills
A. $5 \mathrm{~km} / \mathrm{hr}$
B. $8 \mathrm{~km} / \mathrm{hr}$
C. $15 \mathrm{~km} / \mathrm{hr}$
D. $25 \mathrm{~km} / \mathrm{hr}$
51. Type of radiation responsible to form ozone layer is
A. micro waves
B. UV rays
C. radio waves
D. ultra sound
52. The method of using materials at homes less frequently or only as needed is
A. Reuse
B. Reduce
C. Repurpose
D. Recycling
53. By building khaddin embankments on flat terrain
A .The water level decreses
B. The water level increases
C. The plants in the submerged area willsuffer from excess moisture
D. Contaminated of Groundwater
54. The pH of fresh milk is 6 . The pH value of the milk after its conversion into curd
A. 6
B. Below 6
C. $\quad$ Above 7
D. 7
55. Acid present in honey bee bite
A. Hydrochloric acid
B. Methanoic acid
C. Nitric acid
D. Hydro fluoric acid
56. The pH value of the solutions $\mathrm{A}, \mathrm{B}, \mathrm{C}$ and D is $2,3,4$ and 5 . respectively. Which one of these has more acidic property?
A. Solution A
B. Solution B
C. Solution C
D. Solution D
57. Descending order of reactivity of metals
A. $\mathrm{Fe}>\mathrm{Zn}>\mathrm{Al}>\mathrm{Mg}$
B. $\mathrm{Zn}>\mathrm{Fe}>\mathrm{Al}>\mathrm{Mg}$
C. $\mathrm{Al}>\mathrm{Mg}>\mathrm{Fe}>\mathrm{Zn}$
D. $\mathrm{Mg}>\mathrm{Al}>\mathrm{Zn}>\mathrm{Fe}$
58. Example for amphoteric oxide
A. $\mathrm{Na}_{2} \mathrm{O}$
B. $\mathrm{Al}_{2} \mathrm{O}_{3}$
C. $\mathrm{K}_{2} \mathrm{O}$
D. CuO
59. components used to fuse electrical wires
A. Iron and cobalt
B. Copper and tin
C. Iron and Nickel
D. Lead and tin
60. An example for unsaturated hydrocarbon is
A. Ethyne
B. Hexane
C. Pentan
D. Butane
61.The hydro carbon which undergoes addition reaction is
A. $\mathrm{C}_{2} \mathrm{H}_{4}$
B. $\mathrm{C}_{2} \mathrm{H}_{6}$
C. $\mathrm{C}_{3} \mathrm{H}_{8}$
D. $\mathrm{CH}_{4}$
62. The catalyst used in hydrogenation of plant oils
A. Cobalt
B. Iron
C. Nickle
D. Iodine
63. Carbon has the unique ability to form bonds with other atoms of carbon, giving rise to large molecules. This property is called
A. Isomerism
B. Allotropy
C. Catenation
D. Hydrogenation
64. Which of the following rule states that Properties of elements are a periodic function of their atomic number.
A. Dobereiner's law of Triads
B. Newlands' Law of Octaves
C. Mendeleev's Period Law
D. Moseley's Modern Periodic Law
65. Period and group number of sodium element is
A. 1,3
B. 2,4
C. 1,2
D. 1,4
66. Snell's law of refraction is true for angle
A. $0<\mathrm{i}<90$ ㅇ
B. $0<\mathrm{i}<60$ ㅇ
C. $30<\mathrm{i}<90$ -
D. $0>\mathrm{i}>90 \div 27$.
67. Observe the picture, relative size and nature of the image formed is

A. Highly diminished, real and inverted
B. Enlarged, real and erect
C. Enlarged, virtual and erect
D. Enlarged, real and inverted
68. Unit used to measure the power of a lens is
A. Meter
B. Dioptre
C. Decible
D. Degree
69. A concave lens has focal length of 15 cm . At whatdistance should the object from the lens be placed so that it forms an image at 10 cm from the lens? Also, the magnification produced by the lens.
A. $30 \mathrm{~cm},+0.33$
B. $30 \mathrm{~mm},+0.33$
C. $30 \mathrm{~cm},-0.33$
D. $30 \mathrm{~mm},-0.33$
70. The unit helps in clotting of blood
A. Platelets
B. White blood cells
C. Red blood cells
D. Plasma
71. The structure and functional unit of the excretory system
A. neuron
B. ureter
C. bladder
D. nephron
72. A Small space between the two neurones is
A. Nerve cell
B. Synapse
C. Dendrite
D. Axon
73. The phenomenon of growth of roots towards water is
A. Hydrotropism
B. Phototropism
C. Hemotropism
D. Phototropism
74. The functionof hypothalamus is
A. Sleeping
B. Necessity of food
C. Thirst
D. All of the above
75. In human males, the testes lie in the scrotum outside the body because
A. Health of sperms
B. Formation of sperms
C. Transfer of sperms
D. More number of sperms
76. Sex of a child will be determined by
A. $X$ chromosome of father
B. X chromosome of mother
C. $Y$ chromosome of father
D. Chromosomes of both father and mother
77. Which of the following is not a part of the female reproductive system.?
A. Ovary
B. Uterus
C. Vas deferens
D. Oviducts
78. An example for homologous organ is
A. Wing of bat and bird
B. Embryos of man and bird
C. Fossils of vertebrates and invertebrates
D. Forelimbs of man and bird

## 79) Basic unit of classification of living organisms

A. Species
B. Genus
C. Ecosystem
D. Kingdom

## 80. Phenotypic ratio of dihybrid cross F2 generation

A. 6:3:3:1
B. $3: 1$
C. 9:3:3:1
D. 1:2:1

