

53. Which of the following is a perfect number?

- A. 24
- B. 26
- C. 28
- D. 32

54. The sale price of a book is Rs. 855 with a loss of 5%.  
What is the cost price of a book?

- A. Rs. 870
- B. Rs. 900
- C. Rs. 910
- D. Rs. 993

55. Abdullah gave Rs. 60 to Umar and Umar gave Rs. 90 to Ahmed. After this, all of them have same money. How much more Umar has than Ahmed?

- A. Rs. 30
- B. Rs. 60
- C. Rs. 90
- D. Rs. 120

56. The average of first ten whole numbers is \_\_\_\_\_.

- A. 3.5
- B. 4.0
- C. 4.5
- D. 5.5

57. What amount is invested in the bank to get a profit of Rs. 3500 at a rate of 7% for 4 years?

- A. 10000
- B. 12500
- C. 15000
- D. 16500



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# CHEMISTRY

70. What will be the molecular mass of  $\text{NaOH}$ ?

- A. 1
- B. 16
- C. 23
- D. 40

71. Pick the process used to separate mixture of inks on a blotting paper?

- A. Chromatography
- B. Crystallization
- C. Filtration
- D. Sublimation

72. Which one of the following law is related to the diffusion of gases?

- A. Avogadro's Law
- B. Boyle's Law
- C. Charles's Law
- D. Gram's Law

73. Conversion of liquid water into an ice in refrigerators is termed as \_\_\_\_\_.

- A. boiling
- B. evaporation
- C. freezing
- D. sublimation

74. Which of the following theories explain the shapes of molecules?

- A. Lewis Model
- B. Molecular orbital theory
- C. Valance bond theory
- D. Valence shell electron pair repulsion theory



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91. Which of these organisms can do exchange of gases through skin, they also have lungs?

- A. Amphibians
- B. Birds
- C. Mammals
- D. Reptiles

92. The basic functional units of kidneys are \_\_\_\_\_.

- A. muscles
- B. nephrons
- C. neurons
- D. organelles

93. Paramecium moves with the help of \_\_\_\_\_.

- A. cilia
- B. flagella
- C. legs
- D. pseudopodia

94. How many pairs of nerves are originating from brain?

- A. 10
- B. 12
- C. 31
- D. 41

95. In female reproductive system, the site of oogenesis is called \_\_\_\_\_.

- A. cervix
- B. fallopian funnel
- C. ovary
- D. oviduct

96. When embryo has developed three distinct layers of ectoderm, mesoderm, and endoderm, it is termed as \_\_\_\_\_.

- A. Blastula
- B. Gastrula
- C. Morula
- D. Narula



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## QUANTITATIVE REASONING

27. The multiplicative inverse of  $-\frac{5}{6}$  is \_\_\_\_\_.

- A.  $-\frac{5}{6}$
- B.  $-\frac{6}{5}$
- C.  $\frac{5}{6}$
- D.  $\frac{6}{5}$

28. 75% of what number is 51?

- A. 38.25
- B. 68
- C. 100
- D. 136

29. Cost of 6 books is Rs. 968. The cost price of 3 books is \_\_\_\_\_.

- A. Rs. 161.333
- B. Rs. 322.667
- C. Rs. 484
- D. Rs. 4840

30.  $32 - [36 - 2\{5 \times 2 + 7 - 6\}] = \text{_____}$ .

- A. -14
- B. 2
- C. 14
- D. 18

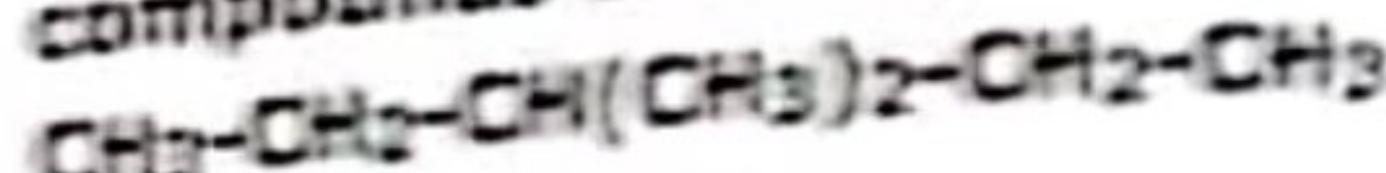
31. What is the next term in the sequence 3, 7, 12, 18, 23, \_\_\_\_\_.

- A. 38
- B. 39
- C. 40
- D. 42

26. Nadir was able to get his bar of silver back by using his

- A. money
- B. smile
- C. wisdom
- D. words

50. The systematic IUPAC name of the following compounds will be \_\_\_\_\_.



- A. 3-Pantane
- B. 5, 5-dimethyl Pentane
- C. 3-methylPantane
- D. 3, 3-dimethyl Pentane

## PHYSICS

59. Which one of the following is a base unit?

- A. Force
- B. Length
- C. Pressure
- D. Work

60. If two vectors have same magnitudes and directions, they are termed as \_\_\_\_\_.

- A. equal vectors
- B. null vectors
- C. position vectors
- D. unit vectors

61. The shortest distance between any two points is called \_\_\_\_\_.

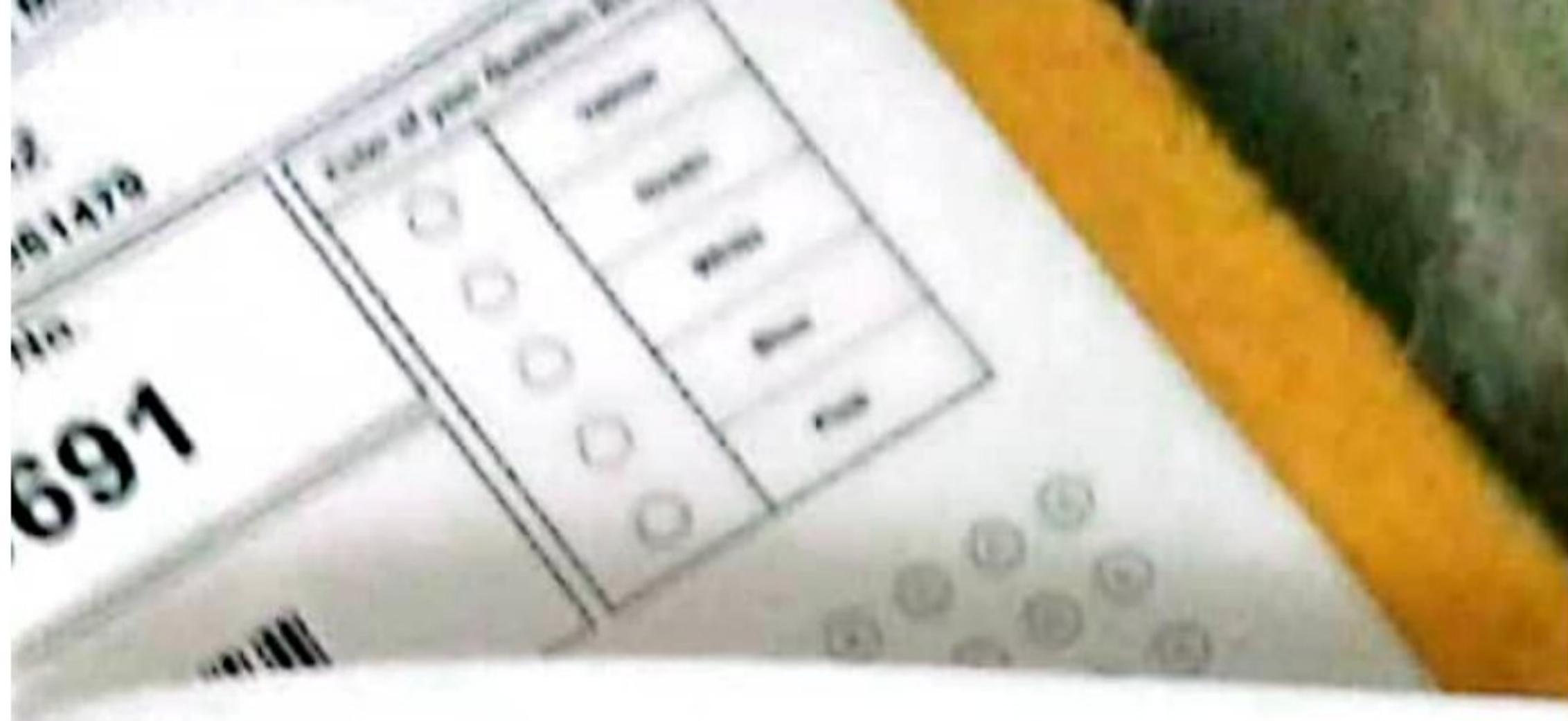
- A. displacement
- B. distance
- C. speed
- D. velocity

62. How can we see image in a mirror?

- A. Due to deflection of light
- B. Due to interference of light
- C. Due to reflection of light
- D. Due to refraction of light

63. Which one of the following is also known as the law of conservation of energy?

- A. Carnot's Theorem
- B. First Law of Thermodynamics
- C. Law of Mass Action
- D. Second Law of Thermodynamics



26. Nadir was able to get his bar of silver back by using his \_\_\_\_\_.

- A. money
- B. smile
- C. wisdom
- D. words

6. I have \_\_\_\_\_ finished my work.

- A. as
- B. just
- C. since
- D. yet

7. Which story would you like me \_\_\_\_\_ today?

- A. tell
- B. telling
- C. to tell
- D. told

8. Tomorrow morning by this time we will \_\_\_\_\_ in an airplane.

- A. flying
- B. flew
- C. fly
- D. have flown

Four lettered pairs (A to D) follow a related pair of words given in the question. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capital letters.

9. BIRD: BEAK::

- A. bee: hive
- B. horse: hoof
- C. man: mouth
- D. snake: poison

10. MOUNTAIN: PEAK::

- A. desert: sand
- B. river: bank
- C. sea: waves
- D. tree: top



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97. Which of these crosses will be more appropriate, if we want to check the genotype of organism with dominant phenotype?

- A. Check cross
- B. Forward cross
- C. Reciprocal cross
- D. Test cross

98. Who from the following give the concept of inheritance of acquired characters to next generation?

- A. Darwin
- B. De Vries
- C. Jean Baptiste de Lamarck
- D. Weismann

99. All of these are abiotic factors of an ecosystem EXCEPT:

- A. Atmosphere
- B. Microbes
- C. Temperature
- D. Water

100. Which one of the following ecosystems has least rainfall?

- A. Coniferous forests
- B. Deserts
- C. Grass lands
- D. Tropical rain forests

36. Mycorrhiza is an association of certain fungi with

- A. algae
- B. animals
- C. bacteria
- D. plants

37. Which of the following plant group is also known as flowering plants?

- A. Angiosperms
- B. Bryophyta
- C. Gymnosperms
- D. Tracheophyta

38. Which of the following animals belong to the Phylum having segmented legs?

- A. Phylum Annelida
- B. Phylum Arthropoda
- C. Phylum Mollusca
- D. Phylum Platyhelminthes

39. Which one of the following is involved in photolysis of water during light reaction of photosynthesis?

- A. Cytochrome b<sub>f</sub> complex
- B. NADP reductase
- C. Photosystem I
- D. Photosystem II

40. Which one of the following minerals is the main constituent of chlorophyll molecules?

- A. Magnesium
- B. Potassium
- C. Sodium
- D. Zinc



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## BIOLOGY

81. Nucleotides are held together by \_\_\_\_\_ to form polynucleotide chain.

- A. ester linkage
- B. glycosidic linkage
- C. peptide linkage
- D. phosphodiester linkage

82. Enzyme activities can be decelerated or inhibited by certain substances called \_\_\_\_\_.

- A. co-enzymes
- B. co-factors
- C. inhibitors
- D. prosthetic groups

83. Which of the following organelle is present in plant cell, specialized for photosynthesis?

- A. Chloroplast
- B. Endoplasmic reticulum
- C. Lysosomes
- D. Mitochondrion

84. Which one of the following virus attacks on human immune system?

- A. HAV
- B. HBV
- C. HCV
- D. HIV

85. During conjugation in sexual reproduction of Bacterial, they form conjugation bridge by using \_\_\_\_\_.

- A. capsule
- B. flagella
- C. pili
- D. plasma membrane



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Q. Which of the following organs carry the exchange of gases between blood and air? Name three.

- (A) Liver
- (B) Heart
- (C) Mammary
- (D) Spleen

Q. The basic functional units of kidney are \_\_\_\_\_.

- (A) muscle
- (B) nephrons
- (C) neurons
- (D) osmoregulators

Q. Respiration moves with the help of \_\_\_\_\_.

- (A) cells
- (B) flagella
- (C) hair
- (D) pseudopodia

Q. How many pairs of nerves are originating from brain?

- (A) 10
- (B) 12
- (C) 32
- (D) 40

Q. In female reproductive system, the site of oogenesis is called \_\_\_\_\_.

- (A) cervix
- (B) fallopian funnel
- (C) ovary
- (D) oviduct

Q. When embryo has developed three distinct layers of ectoderm, mesoderm, and endoderm, it is termed as \_\_\_\_\_.

- (A) Blastula
- (B) Gastrula
- (C) Morula
- (D) Nurtula

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"A most terrible thing happened at the riverbank," he answered softly. "A hawk suddenly swooped down and carried off your son. I could do nothing to help him." What a liar you are! How could a hawk carry off a boy as big as my son? Laeeq said angrily. Nadir looked at his friend straight in the eyes. "Well, my dear friend, Laeeq," he said calmly, "if this is eat silver, then hawks can carry off boys." For a while Laeeq said nothing. Then he knew that Nadir had tricked him just as he had tricked Nadir. So, he said, "Give me back my son and I will give you back your bar of silver."

**22. Nadir had to travel abroad in order to \_\_\_\_\_.**

- A. earn some money
- B. get a bar of silver
- C. meet his relatives
- D. visit a holy place

**23. Nadir left his bar of silver with Laeeq because he \_\_\_\_\_ him.**

- A. believed
- B. feared
- C. loved
- D. trusted

**24. When Laeeq refused to return his bar of silver Nadir did NOT become \_\_\_\_\_.**

- A. afraid
- B. angry
- C. silent
- D. tired

**25. Laeeq was a \_\_\_\_\_ man.**

- A. caring
- B. dishonest
- C. poor
- D. stupid

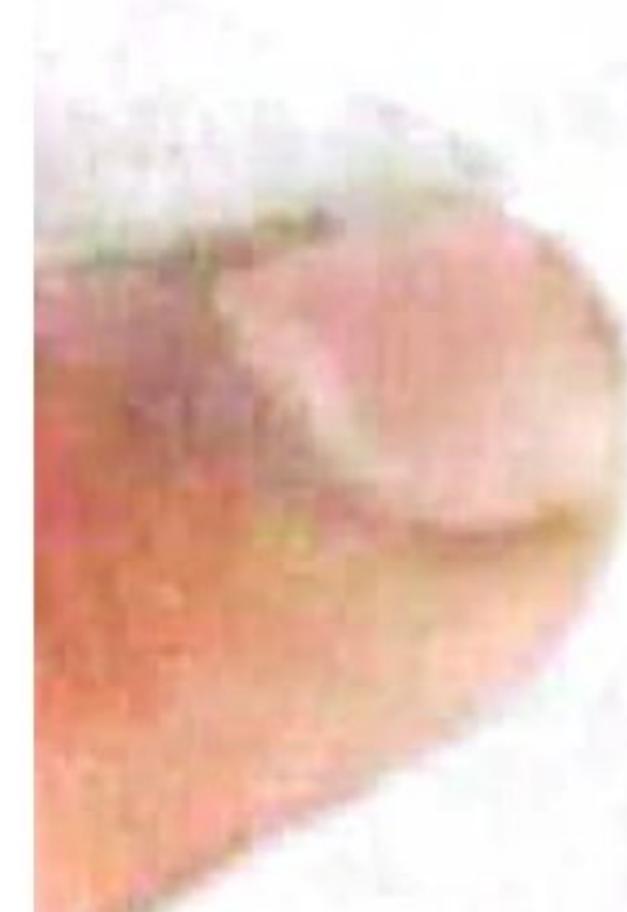
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Q. Ques. A is moving with speed of 60 km/h and car B is moving with a speed of 100 km/h in the same direction. What is their relative speed?

- A. 40 km/h
- B. 60 km/h
- C. 160 km/h
- D. 140 km/h

1. What is/are the charge(s) on Gamma Rays?

- A. Negative
- B. No charge at all
- C. Positive
- D. Both positive and negative charges



32. Simplify  $\sqrt{\frac{36}{3}}$ .

- A.  $\sqrt{3}$
- B.  $3\sqrt{2}$
- C. 3
- D. 6

33. The ascending order of fractions  $\frac{3}{4}, \frac{4}{5}, \frac{7}{10}$  is \_\_\_\_\_.

- A.  $\frac{7}{10}, \frac{4}{5}, \frac{3}{4}$
- B.  $\frac{7}{10}, \frac{3}{4}, \frac{4}{5}$
- C.  $\frac{3}{4}, \frac{7}{10}, \frac{4}{5}$
- D.  $\frac{4}{5}, \frac{3}{4}, \frac{7}{10}$

34. Ahmed has  $\frac{95}{9}$  liters of paint in a container. He pours  $\frac{59}{9}$  liters in a container and  $\frac{35}{12}$  liters in another. How much paint is left?

- A.  $\frac{7}{36}$
- B.  $\frac{11}{36}$
- C.  $\frac{13}{12}$
- D.  $\frac{1}{36}$

35. Factors of  $x^2 - 6x + 5 = 0$  are \_\_\_\_\_.

- A. -1, -5
- B. -1, 5
- C. 1, -5
- D. 1, 5

36. If  $f(x) = x^3 + 5kx - 70$  and  $f(2) = 28$  then value of k is \_\_\_\_\_.

- A. -9
- B. -7
- C. 7
- D. 9



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42. What is the angle between the hands of a clock at 9 O'clock?

- A.  $0^\circ$
- B.  $60^\circ$
- C.  $90^\circ$
- D.  $120^\circ$

43. In a scalene triangle \_\_\_\_\_.

- A. all angles are different in measure
- B. all angles are same in measure
- C. every angle is of  $90^\circ$
- D. two angles are same in measure

44. A dice is rolled twice. The probability of getting doublets is \_\_\_\_\_.

- A.  $1/36$
- B.  $1/18$
- C.  $1/9$
- D.  $1/6$

45. The value of  $x$  in the linear equation  $\frac{3x - 4}{2} - \frac{x}{4} = \frac{13}{6}$  is \_\_\_\_\_.

- A.  $-50/3$
- B.  $-10/3$
- C.  $10/3$
- D.  $50/3$

46. Find the quadratic equation whose roots are 1 and 2.

- A.  $x^2 - 3x + 2$
- B.  $x^2 - 3x - 2 = 0$
- C.  $x^2 - 3x + 2 = 0$
- D.  $x^2 - 2x + 3 = 0$



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47. If  $9C = 5(F - 32)$  if  $C = 100$  then value of F is \_\_\_\_\_

- A. 369/9
- B. 148
- C. 189
- D. 212

48. Pipe A can fill a tank in 2 hours, Pipe B can fill the tank in 1 hour 30 minutes and a Pipe C can fill it in 2 hours 30 minutes. Which pipe(s) is/are more efficient?

- A. Pipe A
- B. Pipe B
- C. Pipe C
- D. Both A and C

49. The value of m in the ratio  $3:m-3 = m-3:12$  is \_\_\_\_\_

- A. -3, -9
- B. -3, 9
- C. 3, -9
- D. 3, 9

50. The mode in the data 2, 3, 4, 9, 5, 6, 9, 8, 6, 5, 2, 9, 9 is \_\_\_\_\_.

- A. 2
- B. 5
- C. 8
- D. 9

51. Find the number of diagonals that can be formed in a heptagon.

- A. 07
- B. 14
- C. 21
- D. 28

52. The median in the data 3, 10, 4, 5, 6, 7, 8, 8, 4 is \_\_\_\_\_

- A. 4.5
- B. 5
- C. 5.5
- D. 6

76. In equilibrium constant expression, when number of moles of reactants and products are equal in a balanced reversible reaction, the factor of \_\_\_\_\_ is cancelled out.

- A. concentration
- B. mass
- C. pressure
- D. volume

77. In  $K_2MnO_4$ , Mn has the oxidation state of \_\_\_\_\_  
(where K = +1, O = -2)

- A. +2
- B. +3
- C. +4
- D. +5

78. The element which is placed at first position in all the periodic tables, is \_\_\_\_\_

- A. Be
- B. H
- C. He
- D. Li

79. Which one of the following metals is the part of common rock salt?

- A. Ca
- B. K
- C. Mg
- D. Na

80. Which of the following is a transition element?

- A. Al
- B. Fe
- C. Li
- D. Mg

**64. Which one of the following is the SI unit of work?**

- A. Coulomb
- B. Joule
- C. Meter
- D. Newton

**65. A modified form of galvanometer used to measure the resistance is termed as \_\_\_\_\_.**

- A. ammeter
- B. ohmmeter
- C. voltmeter
- D. Wheatstone bridge

**66. Which of the following are the materials in which valance electrons are free and they can conduct electricity at normal temperatures?**

- A. Conductors
- B. Insulators
- C. Semi-conductors
- D. Super conductor

**67. In electronic circuits, when there are two or more inputs for a single output, and all of them are necessary for output, the Gate used is called \_\_\_\_\_.**

- A. AND Gate
- B. NAND Gate
- C. NOR Gate
- D. OR Gate

**68. The mass of the body can be converted into energy by expression \_\_\_\_\_.**

- A.  $E=mc^2$
- B.  $E=m/c^2$
- C.  $E=m^c$
- D.  $E=m^2c$

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