

- Q.1 Which of the following muscle is branched, involuntary ?
(a) Smooth Muscle (b) Cardiac Muscle
(c) Skeletal Muscle (d) None of these
- Q.2 Among the following Mammals which one lay eggs ?
(a) Bat (b) Rat (c) Platypus (d) Whale
- Q.3 Energy currency of the cell is
(a) ATP (b) GTP (c) DNA (d) RNA
- Q.4 Helium atom has atomic mass of 4u and two protons in its nucleus . How many electrons are present in the helium atom-
(a) 2 (b) 3 (c) 6 (d) 5
- Q.5 A sound wave has a frequency of 2KHz and wavelength of 35 cm. How long will it take to travel 1.5 Km ?
(a) 3.1 s (b) 3.6 s (c) 2.5 s (d) 2.1 s
- Q.6 Which technique is used to separate Iron pins from sand.
(a) Filtration (b) Separating funnel
(c) Magnetic Separation (d) Centrifugation
- Q.7 Calculate the number of particles in 0.1 mole of carbon atom (number from given moles)
(a) 6.022×10^{22} (b) 6.022×10^{23} (c) 6.123×10^{21} (d) 6.223×10^{19}
- Q.8 An object weight 10 N when measured on the surface of the earth what would be its weight when measured on the surface of the moon.
(a) 2.67 N (b) 4.68 N (c) 1.67 N (d) 0.75 N
- Q.9 An object of mass 15kg is moving with a uniform velocity of $4ms^{-1}$ What is the kinetic energy possessed by the object?
(a) 140 J (b) 120 J (c) 150 J (d) 200 J
- Q.10 Scientific name of cow is :-
(a) Bos indicus (b) Bos bubalis (c) Bos Indicus (d) Bos Bubalis
- Q.11 The total surface area of a cone whose radius is $\frac{r}{2}$ and slant height $2l$ is
(a) $2\pi r(l+r)$ (b) $\pi r\left(l+\frac{r}{4}\right)$ (c) $\pi r(l+r)$ (d) $2\pi rl$
- Q.12 The number of circles that can be drawn- through three non-collinear points is
(a) Only one (b) three (c) zero (d) Infinite
- Q.13 AD is a diameter of a circle and AB is a chord. If AD = 34cm and AB = 30cm, the distance of AB from the centre of the circle is
(a) 17cm (b) 15cm (c) 4cm (d) 8cm
- Q.14 Two parallelograms are on the same base and between the same parallel. The ratio of their areas is
(a) 1 : 2 (b) 1 : 1 (c) 2 : 1 (d) 3 : 1
- Q.15 A triangle and a rhombus are on the same base and between the same parallels, then the ratio of area is triangle to that of rhombus is:
(a) 1 : 1 (b) 1 : 2 (c) 1 : 3 (d) 1 : 4
- Q.16 The figure obtained by joining the mid-points of the sides of a rhombus, taken in order, is
(a) a square (b) a rectangle (c) a rhombus (d) a parallelogram
- Q.17 If we multiply or divide both sides of a linear equation with a non-zero number, then the solution of the linear equation:
(a) changes (b) remains the same

- (c) changes in case of multiplication only (d) Changes in case of division only
- Q.18 $x = 5, y = 2$ is a solution of the linear equation:
(a) $x + 2y = 7$ (b) $5x + 2y = 7$ (c) $x + y = 7$ (d) $5x + y = 7$
- Q.19 The median of the data
78, 56, 22, 34, 45, 54, 39, 68, 54, 84 is
(a) 45 (b) 49.5 (c) 54 (d) 56
- Q.20 Let m be the mid-point and l be the upper class limit of a class in a continuous frequency distribution. The lower class limit of the class is:
(a) $2m + l$ (b) $2m - l$ (c) $m - l$ (d) $m - 2l$