

- Q.1 The process of conversion of sugar into alcohol known as:
(a) Fermentation (b) Baking
(c) Anaerobic respiration (d) Preservation
- Q.2 Which of the following elements is used in vulcanization of rubber?
(a) Graphite (b) Lead (c) Sulphur (d) Calcium
- Q.3 Plant cells differ from animal cells in having a
(a) Cell membrane (b) Vacuole (c) Cell wall (d) Golgi body
- Q.4 Which of the following is a hormone secreted by the master gland?
(a) Insulin (b) Growth hormone (c) Thyroxine (d) Adrenalin
- Q.5 Which of the following units would you use to measure force:
(a) Kilogram (b) Newton (c) Gram (d) Joule
- Q.6 Electric current flows due to the movement of:
(a) Protons (b) Neutrons (c) Free electron (d) The entire nucleus
- Q.7 Which of the following items was used by Benjamin Franklin for his experiment?
(a) Ball (b) Shuttle Cork (c) Kite (d) Box
- Q.8 The normal value for vision is approximately is:
(a) 15cm (b) 20cm (c) 25cm (d) 30cm
- Q.9 What kind of a galaxy do we live in?
(a) Spiral (b) Irregular (c) Elliptical (d) spherical
- Q.10 Which of these help in absorbing UV rays:
(a) Water vapour (b) Ozone
(c) Chlorofluoro carbons (d) Oxygen
- Q.11 72% of 25 students are good in mathematics. How many are not good in mathematics.
(a) 12% (b) 28% (c) 18% (d) 14%
- Q.12 A man got a 10% increase in his salary. If his new salary is Rs. 1,54,000. Find his original salary
(a) 1,40,000 (b) 1,30,000 (c) 1,25,000 (d) 1,45,000
- Q.13 Find $(x + 7y)(7x - y)$
(a) $3x^2 + 45xy - 5y^2$ (b) $6x^2 + 38xy - 4y^2$
(c) $4x^2 + 32xy$ (d) $7x^2 + 48xy - 7y^2$
- Q.14 Using identities find 99^2
(a) 8801 (b) 9801 (c) 6801 (d) 1801
- Q.15 The diagonals of a rhombus are 7.5 cm and 12 cm. Find its area
(a) 45 cm^2 (b) 62 cm^2 (c) 55 cm^2 (d) 25 cm^2
- Q.16 Find the side of a cube whose surface are 600 cm^2
(a) 20 cm (b) 15 cm (c) 10 cm (d) 25 cm
- Q.17 Find the value of $\left(\frac{2}{3}\right)^{-2}$
(a) $\frac{9}{4}$ (b) $\frac{4}{9}$ (c) $\frac{-4}{9}$ (d) $\frac{-9}{4}$
- Q.18 Express usual form. 3.02×10^{-6}
(a) 0.00000302 (b) 302 (c) 0.00302 (d) 0.00320
- Q.19 Factorise $4p^2 - 9q^2$
(a) $(2p + 3q)^2$ (b) $(2p - 3q)^2$ (c) $2q \times 3q$ (d) $(2p - 3q)(2p + 3q)$

Q.20 $(10x - 25) \div 5$

(a) $2x - 5$

(b) $2x + 5$

(c) $3x + 2$

(d) $3x - 5$