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1. Density of matter is defined as

A. mass / volume

- B. mass ÷ volume
C. volume / mass
D. none of these
2. The resultant upthrust on a body partly immersed in liquid acts through
A. the centre of gravity
B. the metacentre
C. the centre of pressure
D. none of these
3. A transverse wave travels along z-axis. The particles of the medium travel along
A. z-axis
B. x-axis
C. y-axis
D. in x-y plane
4. Joule-Thomson cooling is
A. temperature dependent
B. temperature independent
C. dependent on the molecular weight of the gas
D. dependent on the total mass of the gas
5. The principle of action of points is used in
A. capacitors
B. inductors
C. resistors
D. lightning arrestors
6. A jet engine works under the principle of
A. mass
B. Energy
C. linear momentum
D. angular momentum
7. To find the temperature of the sun, the following law is used:
A. Charles's law
B. Stefan's fourth power law of radiation
C. Boyle's law
D. Kirchhoff's law
8. Calotropis is an example of the following phyllotaxy:
A. opposite and decussate
B. spiral
C. whorled
D. alternate
9. Radio carbon dating is used to
A. find diseases
B. find the age of relics
C. find the carbon content in the atmosphere
D. none of these
10. Frequency modulation is more advantageous than amplitude modulation because
A. there will be no distortion
B. distortion will be maximum
C. no internal noises produced
D. internal noises can be filtered

11. X-rays travel with the velocity of
A. light
B. sound
C. positive rays
D. alpha rays
12. A loudspeaker converts
A. electrical energy into sound energy
B. sound energy into electrical energy
C. small sound into a large sound
D. none of the above
13. The transverse wave nature of light was proved by
A. interference
B. diffraction
C. polarisation
D. refraction
14. Electric iron takes a long time to cool because of
A. greater emissivity
B. lesser emissivity
C. less absorptive power
D. more absorptive power
15. Helium is preferred to hydrogen in airships because it
A. has greater lifting power
B. is less dense
C. cheaper
D. does not form explosive mixture with air
16. Excessive consumption of alcohol damages the
A. liver
B. kidneys
C. heart
D. lungs
17. Which of the following has the smell of garlic?
A. White phosphorus
B. Red phosphorus
C. Phosphorus chloride
D. Phosphine
18. A common nitrogenous fertilizer is
A. urea
B. superphosphate
C. triple phosphate
D. potassium chloride
27. The acid which etches glass is
A. nitric acid
B. sulphuric acid
C. hydrofluoric acid
D. hypochlorous acid
28. Which of the following diseases is likely to spread in the entire community if a leaky septic tank contaminates the water supply?
A. Cholera
B. Cancer
C. Tuberculosis
D. Leprosy