

1. Density of matter is defined as

- A. mass / volume
- B. mass \times 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
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3. A transverse wave travels along z-axis. The particles of the medium travels 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
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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
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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

29. Yeast help in the production of

- A. oxygen
- B. glucose
- C. alcohol
- D. salts

30. Many pulses are obtained from plants of the family

- A. Euphorbiaceae
- B. Fabaceae
- C. Asteraceae
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