

2020 Tnpsc Science Questions Part 1 In English

[Tnpsc Previous Questions]

- Newton' law of gravitation states that
(a) $F = Gm_1^2 m_2^2/r^2$ (b) $F = Gm_1 m_2/r$ (c) $F = Gm_1 m_2/r$ (d) $F = Gm_1 m_2/r^3$
- Two capacitors of capacitance $3\mu F$ and $6\mu F$ are connected in series combination. Their equivalent capacitance will be
(a) $2\mu F$ (b) $3\mu F$ (c) $6\mu F$ (d) $9\mu F$
- is not a living Ambhibia
(a) Siphonops (b) Eryops (c) Hynobius (d) Triton
- Holandric genes are called
(a) Carried by X chromosomes (b) Carried by autosomes
(c) Carried by different parts of Y chromosomes (d) Carried by X and Y chromosomes
- How many barr body is found in normal women?
(a) One (b) Two (c) Twenty two (d) Twenty Three
- Marble contains
(a) $ZnCO_3$ (b) $CaCO_3$ (c) $MgCO_3$ (d) K_2CO_3
- Plaster of paris is
(a) $CaSO_4.H_2O$ (b) $CaSO_4.1/2H_2O$ (c) $CaSO_4.2H_2O$ (d) $CaSO_4.3/2H_2O$
- Assertion [A]: The free floating hydrophytes Eichhornia and Salvinia in the aquatic bodies are problematic
Reason [R] : Since they easily spread and cover the entire surface and blocked the water ways.
(a) A flase R False (b) A True R True (c) A True R False (d) A Flase R True
- The value of acceleration due to gravity from equator to the pole
(a) Increases (b) Decreases (c) Constant (d) Zero
- When detergent is mixed with water, the dirt from clothes is easily removed. This is due to

- (a) Refraction of light (b) Reflection of light
(c) Interference of light (d) **Scattering of light**
21. Half life of a radio active substance with disintegration constant λ is
(a) **$0.6931/\lambda$** (b) $0.6931 \times \lambda$ (c) $\lambda / 0.6931$ (d) $\lambda^2 / 0.6931$
22. The specific rotation of α - fructose is
(a) -11° (b) **-21°** (c) -133° (d) -19.7°
23. Which acid is not kept in glass bottles?
(a) **HF** (b) HCl (c) HBr (d) HI
24. SiO_2 is
(a) **an acidic oxide** (b) a basis oxide (c) a neutral oxide (d) an amphoteric oxide
25. Sequence of organism through which passing of the organic molecules in a community is called
(a) Pyramid of energy (b) **Food chain**
(c) Food web (d) Nutrient cycle
26. A man pulls a trolley weighing 50 kg with a force of 50 N on a marble floor. What is the acceleration of the trolley?
(a) 10 ms^{-2} (b) **1 ms^{-2}** (c) 2500 ms^{-2} (d) 250 ms^{-2}
27. If light waves emitted by two coherent sources have wavelengths λ_1 and λ_2 then
(a) **$\lambda_1 = \lambda_2$** (b) $\lambda_1 > \lambda_2$ (c) $\lambda_1 < \lambda_2$ (d) $\lambda_1, \lambda_2 = 1$
28. On passing 0.1 Faraday of electricity through AlCl_3 , the amount of aluminium metal deposited on the cathode is (At. Mass of Al = 27)
(a) 0.27 g (b) 0.81 g (c) **0.9 g** (d) 13.5 g