



Subject : **PHYSICS**

- The radiant energy emitted by a perfect blackbody at 400 K per unit area per second is ($\sigma = 5.7 \times 10^{-8} \text{ Wm}^{-2}\text{K}^{-4}$)
(1) 275 J (2) 326 J
(3) 753 J (4) 462 J
- The resistance of a metal wire is 5 Ω and 6 Ω at 50°C and 100°C respectively. The temperature at which the resistance is 7 Ω is
(1) 75°C (2) 100°C
(3) 150°C (4) 200°C
- A current carrying conductor obeys Ohm's law. If the current passing through the conductor is (5 ± 0.2) A and voltage developed is (70 ± 7) V, then find the percentage of error in resistance.
(1) 14 (2) 6 (3) 9 (4) 18

Subject : **CHEMISTRY**

- From the following pair of ions, which is an isoelectronic pair?
(1) Na^+ , Mg^{2+} (2) Fe^{2+} , Mn^{2+}
(3) O^{2-} , F^{2-} (4) Mn^{3+} , Fe^{3+}
- Element having an atomic number 57 belongs to which block of periodic table?
(1) p-block (2) s-block
(3) d-block (4) f-block
- Choose the correct bond order for the given molecules, Li_2 and He_2
(1) 1 and 2 (2) 2 and 0
(3) 0 and 1 (4) 1 and 0

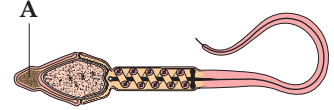
Subject : **BOTANY**

- Which of the following is responsible for inducing cell division and delay in senescence?
(1) Cytokinin (2) Auxins
(3) Gibberellic acid (4) Abscisic acid

- Choose the incorrect statement with respect to Diffusion
(1) Energy expenditure takes place.
(2) Molecules move in a random fashion.
(3) It is the only means for gaseous movement within the plant body.
(4) Diffusion rates are affected by the gradient of concentration.
- When a photosynthetic plant is transferred to an atmosphere of enriched oxygen, its rate of
(1) Photosynthesis would decrease
(2) Photosynthesis would increase
(3) Respiration would decrease
(4) Osmosis would increase

Subject : **ZOOLOGY**

- In which part of female Anopheles mosquito, the sporozoite form of Plasmodium is stored?
(1) Gut (2) Proboscis
(3) Salivary glands (4) Ovaries
- What is A in the given diagram?
(1) Nucleus (2) Acrosome
(3) Mitochondria (4) Neck
- Select the incorrect statement about MTP
(1) Enacted to avoid illegal abortions.
(2) MTP can be performed within 12 weeks of pregnancy by a registered medical practitioner.
(3) MTP was legalised in India in 1971.
(4) Pregnancy can be continued without MTP even if it involves a risk to mother and baby.



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