



Subject : **PHYSICS**

- A screw gauge with a pitch of 0.5 mm and a circular scale with 50 divisions are used to measure the thickness of a thin sheet. If MSR = 5 mm, zero of CSD coincides with 25 divisions above the reference level and screw gauge has a zero error of -0.005 cm. what is the thickness of the thin sheet?  
(1) 3.2 mm (2) 7.8 mm  
(3) 5.3 mm (4) 4.5 mm
- An ideal gas expands isothermally from  $10^{-4}m^3$  to  $10^{-3}m^3$  at  $27^{\circ}C$  against a constant pressure of  $10^7Nm^{-2}$ . The work done on the gas is  
(1) -900 J (2) 9000 J (3) -9000 J (4) 900 J
- If 75% of a radioactivity sample disintegrates in 18 days, the half-life of the radioactive sample is  
(1) 10 days (2) 9 days  
(3) 8 days (4) 5 days

Subject : **CHEMISTRY**

- $2HI(g) \rightarrow H_2(g) + I_2(g)$ , In this reaction the average rate of reaction with respect to reactant is  
(1) Negative (2) Positive  
(3) Zero (4) None of these
- For a reaction,  $A + B \rightarrow$  Product. The rate law is given by rate =  $k[A]^{3/2}[B]^{-1}$ . What is the order of the reaction?  
(1) 1 (2) 2 (3)  $\frac{1}{2}$  (4) 0
- Identify the order of the reaction if the unit of its rate constant is  $molL^{-1}s^{-1}$ .  
(1) First order reaction  
(2) Second order reaction  
(3) Zero order reaction  
(4) None of these

Subject : **BOTANY**

- Different cells have different sizes. Arrange the following cells in a descending order of their size.  
(i) Mycoplasma (ii) Ostrich egg  
(iii) Human RBC (iv) Bacteria  
(1) i→iv→iii→ii (2) i→iii→iv→ii  
(3) ii→i→iii→iv (4) ii→iii→iv→i

- Reaction center of PS-I is ---- and reaction center of PS-II is ----  
(1)  $P_{680}$   $P_{700}$  (2)  $P_{700}$   $P_{680}$   
(3)  $P_{800}$   $P_{600}$  (4)  $P_{700}$   $P_{900}$
- Statement-1: Peroxisomes are involved in photorespiration of the plant cells and help in the lipid metabolism of animal cells.  
Statement-2: Lysosomes are the cells garbage disposal system.  
(1) 1 and 2 are correct.  
(2) 1 is correct but 2 is incorrect.  
(3) 1 is incorrect but 2 is correct.  
(4) 1 and 2 are incorrect.

Subject : **ZOOLOGY**

- Which of the following statements are correct regarding Heroin?  
(i) Heroin is commonly called as crack.  
(ii) Obtained by acetylation of morphine.  
(iii) Extracted from the latex of Poppy plant.  
(iv) Heroin is a depressant and slows down body functions.  
(1) (i) and (ii) (2) (ii) and (iii)  
(3) (i), (ii) and (iii) (4) (ii), (iii) and (iv)
- Assertion (A): Cyclosporin A, a bioactive molecule used as an immunosuppressive agent.  
Reason (R): Produced by the Yeast *Monascus purpureus*.  
(1)(A) and (R) are true, and (R) is the correct explanation of (A).  
(2)(A) and (R) are true, and (R) is not the correct explanation of (A).  
(3) (A) is true, but (R) is false.  
(4) (A) is false, but (R) is true.
- Write the correct sequence of the wall of the gut from outside to inside.  
(1) Serosa→Muscularis coat→Submucosa→Mucosa  
(2) Muscularis coat→Serosa→Mucosa→Submucosa  
(3) Mucosa→Submucosa→Serosa→Muscularis coat  
(4) Submucosa→Serosa→Muscularis coat→Mucosa

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