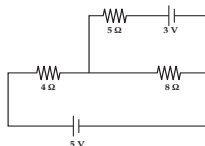




Subject : **PHYSICS**

- In a thermodynamic process, the pressure of a fixed mass of a gas is changed in such a manner that gas released 30 J of heat and 18 J of work was done on the gas. If the initial energy of the gas was 60 J, then final energy will be
(1) 48 J (2) 53 J (3) 96 J (4) 70 J
- The value of current through 5Ω resistor of the given circuit is
(1) $\frac{1}{25}$ A (2) $\frac{2}{25}$ A
(3) $\frac{2}{23}$ A (4) $\frac{1}{23}$ A



- A particle of mass 1 kg is executing SHM with an amplitude of 1m and time period π sec. Calculate the kinetic energy of the particle at the moment when the displacement is 0.8 m from mean position?
(1) 3.2 J (2) 1.59 J (3) 0.72 J (4) 4.23 J

Subject : **CHEMISTRY**

- The correct thermodynamic conditions for the spontaneous reaction at high temperature,
(1) $\Delta_r H^\circ = -Ve, \Delta_r S^\circ = +Ve$
(2) $\Delta_r H^\circ = -Ve, \Delta_r S^\circ = -Ve$
(3) $\Delta_r H^\circ = +Ve, \Delta_r S^\circ = -Ve$
(4) $\Delta_r H^\circ = +Ve, \Delta_r S^\circ = +Ve$
- Role of Hydrogen peroxide in the following reaction is, $O_3 + H_2O_2 \rightarrow H_2O + 2O_2$
(1) Reducing agent
(2) Oxidizing agent
(3) Bleaching agent
(4) Dehydrating agent
- The number of neutrons present in the radioactive isotope of Hydrogen is,
(1) 1 (2) 2 (3) 3 (4) 0

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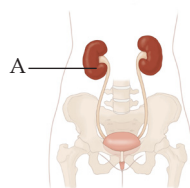


Subject : **BOTANY**

- In Meselson and Stahl experiment, after an hour what will be the percentage of DNA would be light, heavy and hybrid respectively?
(1) 75, 0, 25 (2) 25, 0, 75
(3) 0, 25, 75 (4) 0, 75, 25
- In a vector, an antibiotic resistance gene usually helps in the selection of
(1) Recombinant cells (2) Competent cells
(3) Transformed cells (4) All the above
- Choose the Semi-dwarf varieties of rice developed in India.
(1) Sonalika and Kalyansona
(2) IR-8 and Taichung Native-I
(3) Jaya and Ratna
(4) Atlas 66 and Himgiri

Subject : **ZOOLOGY**

- Match the Following
(a) Albumin (i) Defense
(b) Globulin (ii) Clotting
(c) Fibrinogen (iii) Osmotic balance
(1) (a)-(i), (b)-(ii), (c)-(iii)
(2) (a)-(ii), (b)-(iii), (c)-(i)
(3) (a)-(iii), (b)-(ii), (c)-(i)
(4) (a)-(iii) (b)-(i), (c)-(ii)
- In which of the following regions, the muscles are under voluntary control of nervous system?
(1) Lower limb (2) Heart
(3) Intestine (4) Reproductive tract
- The Approximate weight of (A) given in the diagram is
(1) 50-100 g
(2) 120-170 g
(3) 200-300 g
(4) 500-600 g



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