

### SECTION - III (Integer value correct Type)

This section contains 5 questions. The answer to each questions is a single-digit integer, ranging from 0 to 9 (both inclusive).

15. A freshly prepared sample of a radioisotope of half-life 1386 s has activity  $10^3$  disintegrations per second. Given that  $\ln 2 = 0.693$ , the fraction of the initial number of nuclei (expressed in nearest integer percentage) that will decay in the first 80 s after preparation of the sample is
16. (4)  $I = I_0 e^{-\lambda t}$   $\Rightarrow 1 = e^{-\lambda \times 25}$   
 $\Rightarrow [1 - (1 - (1/25))] \times 100 = 4\%$
17. A bob of mass  $m$ , suspended by a string of length  $l_1$  is given a minimum velocity required to complete a full circle in the vertical plane. At the highest point, it collides elastically with another bob of mass  $m$  suspended by a string of length  $l_2$ , which is initially at rest. Both the strings are mass-less and inextensible. If the second bob, after collision, acquires the minimum speed required to complete a full circle in the vertical plane, the ratio  $(l_1/l_2)$  is
17. (5) Velocity before collision are  $\sqrt{gl_1}$  & 0 on collision, velocity are interchanged  
 $\therefore \sqrt{gl_1} = \sqrt{5gl_2}$   $\therefore (l_1/l_2) = 5$
18. A uniform circular disc of mass 50 kg and radius 0.4 m is rotating with an angular velocity of  $10 \text{ rad s}^{-1}$  about its own axis, which is vertical. Two uniform circular rings, each of mass 6.25 kg and radius 0.2 m, are gently placed symmetrically on the disc in such a manner that they are touching each other along the axis of the disc and are horizontal. Assume that the friction is large enough such that the rings are at rest relative to the disc and the system rotates about the original axis. The new angular velocity (in  $\text{rad s}^{-1}$ ) of the system is
18. (8)  $\text{C.A.M}$   
 $I_1 \omega_1 = (I_1 + I_2 + I_3) \omega_2$   
 $\Rightarrow \omega_2 = \frac{I_1}{(I_1 + I_2 + I_3)} \omega_1$   
 $= \frac{50 \times (0.4)^2}{2}{\frac{50 \times (0.4)^2}{2} + (6.25 \times (0.2)^2 + 6.25(0.2)^2) \times 2} \times 10 = 8 \text{ rad s}^{-1}$
19. The work functions of Silver and Sodium are 4.6 and 2.3 eV, respectively. The ratio of the slope of the stopping potential versus frequency plot for Silver to that of Sodium is
19. (1)  $V = \frac{(h\nu/e) - (h\nu_0/e)}{e}$   $\therefore \text{slope} = (h/e) \Rightarrow$  independent of work function.
20. A particle of mass 0.2 kg is moving in one dimension under a force that delivers a constant power 0.5 W to the particle. If the initial speed (in  $\text{ms}^{-1}$ ) of the particle is zero, the speed (in  $\text{ms}^{-1}$ ) after 5 s is
20. (5) C.E  $\Rightarrow (1/2)mv^2 = p \times t$   
 $\Rightarrow v = \sqrt{\frac{2pt}{m}} = \sqrt{\frac{2 \times 0.5 \times 5}{0.2}} = 5 \text{ ms}^{-1}$

# Phyiscs Exemplar 2013 Grd11

**Michael Brown**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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