Unit 14 - Week 12

Practice Questions: Week12

The due date for submitting this assignment has passed. Due on 2019-10-23, 23:59 IST. As per our records you have not submitted this assignment.

The following questions do not have any weight towards the course evaluation. These questions are for practice.
The following questions may have more than one correct answers. Read and analyse the question carefully before selecting the answer(s).

1) The ratio of wing loading for two birds is 1:2. What is the ratio of their weight?
   1:2
   2:1
   1:4
   1:8

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   1:8

2) Which of the following points is/are TRUE about Birds?
   □ Heavier birds glide at higher speeds
   □ Larger birds flap their wings slowly
   □ Exhibit high change in Camber
   □ Reduce wing area as glide velocity reduces

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Heavier birds glide at higher speeds
**Larger birds flap their wings slowly**  
*Exhibit high change in Camber*

3) A bird weighs about 750 gram and has a wing area of 0.05 m². Estimate the gliding velocity of the bird. Assume $C_L=0.65$, $\rho =1.2256$ kg/m³ and $g=10$ m/s².

- 37.6 m/s
- 19.4 m/s
- 50.6 m/s
- 14.8 m/s

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
19.4 m/s

4) Which of the following is/ are not a desirable feature of a bird's wing?  

- High camber
- Control on wing area
- Transverse bending
- Twisting

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
*High camber*