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1. The height of a Watt's governor is equal to

- a)  $8.95/N^2$
- b)  $89.5/N^2$
- c)  $895/N^2$
- d)  $8950/N^2$

View Answer

Answer: c

Explanation: If  $N$  is the speed of the arm and ball about the spindle axis, then the height of the governor ( $h$ ) is given by

$$h = 895/N^2 \text{ metres}$$

2. The height of a Watt's governor is

- a) directly proportional to speed
- b) directly proportional to (speed)
- c) inversely proportional to speed
- d) inversely proportional to (speed)

View Answer

Answer: d

Explanation: If  $N$  is the speed of the arm and ball about the spindle axis, then the height of the governor ( $h$ ) is given by

$$h = 895/N^2 \text{ metres}$$

From this expression, we see that the height of a Watt's governor is inversely proportional to  $N^2$

3. A Watt's governor can work satisfactorily at speeds from

- a) 60 to 80 r.p.m
- b) 80 to 100 r.p.m
- c) 100 to 200 r.p.m
- d) 200 to 300 r.p.m

View Answer

Answer: a

Explanation: A watt's governor may only work satisfactorily at low speeds i.e. from 60 to 80 r.p.m.

4. The ratio of height of Porter governor to the height of Watt's governor is

- a)  $m/m + M$
- b)  $M/ m + M$
- c)  $m + M/m$
- d)  $m + M/M$

View Answer

Answer: c

Explanation: The ratio of height of a Porter governor (when length of arms and links are equal) to the height of Watt's governor is  $m + M/n$ , where  $m$  and  $M$  are the masses of the ball and sleeve respectively.

5. When the sleeve of a porter governor moves upwards, the governor speed

- a) increases
- b) decreases
- c) remains unaffected
- d) first increases and then decreases

View Answer

Answer: a

Explanation: When the sleeve of a porter governor moves upwards, the governor speed increases and when the sleeve moves downwards, the governor speed decreases.

6. When the sleeve of a Porter governor moves downwards, the governor speed

- a) increases
- b) decreases
- c) remains unaffected
- d) first increases and then decreases

View Answer

Answer: b

Explanation: When the sleeve of a porter governor moves upwards, the governor speed increases and when the sleeve moves downwards, the governor speed decreases.

8. A Hartnell governor is a

- a) dead weight governor
- b) pendulum type governor
- c) spring loaded governor
- d) inertia governor

View Answer

Answer: c

Explanation: A Hartnell governor is a spring loaded governor.  
Watt's governor is a pendulum type governor.

10. Which of the following is a pendulum type governor?

- a) Watt's governor
- b) Porter governor
- c) Hartnell governor
- d) None of the mentioned

View Answer

Answer: a

Explanation: Watt's governor is a pendulum type governor.