

1. In Ideal case, the Charging current for 200Ah battery would be _____ ?

- A. 10 A
- B. 12 A
- C. 15 A
- D. 20 A(correct)

2. In Ideal case, the Charging Time for 200Ah battery would be _____ ?

- A. 5 hours
- B. 10 hours(correct)
- C. 15 hours
- D. 20 hours

3. One (1) Ah = _____ ?

- A. 1C
- B. 1200C
- C. 2400C
- D. 3600C(correct)

4. The commercial lead acid cell has 13 plates. The number of positive plates would be_____.

- A. 6(correct)
- B. 7
- C. 8
- D. 9

5. A lead acid cell has 15 plates. In absence of manufacturer's data [nameplate], the charging current should be_____.

- A. 3A
- B. 6A
- C. 7A(correct)

D. 13A

6. A Battery is a series or parallel combination of electrolytic cells.

A. True(correct)

B. False

7. Standard open circuit voltage for Lead-acid battery at standard conditions is---

A. 3 Volts

B. 2.048 Volts(correct)

C. 2.50 Volts

D. 3.508 Volt

8. Nickel-Cadmium batteries are preferred more than Lead-Acid batteries in military applications because---

A. Can be easily charged and discharged.

B. Discharge rate is higher

C. Delivers large amount of power

D. All of the above(correct)

9. Number of cells connected in series provide a ---

A. High current carrying capacity

B. Higher Voltage(correct)

C. Higher power

D. None of the above

10. Number of cells connected in parallel provide a---

A. High current carrying capacity(correct)

B. Higher voltage

- C. Higher power
- D. None of the above

11. Storage batteries are rated according to ----

- A. Ambient Temperature
- B. Discharge Rate
- C. A and C(correct)
- D. None of the above

12. Trickle charger of a storage battery helps to

- A. Maintain proper electrolyte level
- B. Increase its reverse capacity
- C. Prevent sulphation
- D. Keep it fresh and fully charged (correct)

13. Following will happen if battery charging rate is too high

- A. Excessive gassing will occur
- B. Temperature rise will occur
- C. Bulging and buckling of plates we occur
- D. All of the above(correct)

14. The following indicate that battery on charge has attained full charge

- A. Colour of electrode
- B. Gassing
- C. Specific gravity
- D. All of the above(correct)

15. What does it mean to discharge the battery?

Discharging, or draining, describes the process of your battery losing voltage, or energy. It is important to understand that a battery is always discharging anytime it is not being directly charged. Discharging your battery can be both an active or an inactive process.

16. Is charging and discharging a battery bad?

As long as there is a relatively steady amount of charge within the battery, this cycling causes little wear on the internal architecture of the battery. By some estimates, frequently fully-discharging can reduce your battery's capacity by 70% over 300 to 500 charge cycles!

17. Does fully charging a battery damage it?

If you drain your battery from 100% all the way down to 0%, it's likely that it could potentially degrade by up to 70% of its original capacity in just a few hundred cycles. In a nutshell, you do your phone battery more harm than good if you let it drop to 0-1% charge every time before recharging it

18. How long does it take the battery to completely discharge?

A new and fully car battery can stay for around two weeks without needing to be recharged from a generator. This battery will fully get discharged after approximately two to three months. If you leave the battery for roughly two and a half months, you will not be able to start the car engine

19. Can a battery charge and discharge at the same time?

No, a battery can't be charged and discharged at the same time. If a battery is connected to a charger delivering 1 A and a load drawing 3 A, then the battery will be discharged at 2 A. There is no simultaneous charging and discharging going on. Draw out the circuit and follow the currents

20. How do you calculate battery charging and discharging time?

In the ideal/theoretical case, the time would be $t = \text{capacity}/\text{current}$. If the capacity is given in amp-hours and current in amps, time will be in hours (charging or discharging). For example, 100 Ah battery delivering 1A, would last 100 hours. Or if delivering 100A, it would last 1 hour