CAV Important Questions

Two marks

a. List any three application of CV Technology https://www.digi.com/blog/post/what-is-connected-vehicle-technology-and-use-cases

https://www.acko.com/car-guide/connected-cars-features-benefits/

https://www.its.dot.gov/cv_basics/cv_basics_what.htm

- b. Discuss shortly on Vehicle based sensors https://studentlesson.com/car-sensors-definition-functions-diagram-types-working/
- c. State any two Vehicle-to-Infrastructure Applications <u>https://www.techtarget.com/whatis/definition/vehicle-to-infrastructure-V2I-or-</u> V2X#:~:text=Vehicle%2Dto%2Dinfrastructure%20(V2I,streetlights%2C%20signage%20and%20parking%20meters.
- d. What is Connected vehicle? discuss on need of the day of it. https://www.digi.com/blog/post/what-is-connected-vehicle-technology-and-use-cases
- e. Distinguish Vehicle based and Infrastructure based CV Devices <u>https://www.researchgate.net/publication/301246542_Vehicle-to-vehicle_V2V_and_vehicle-to-</u> infrastructure V2I communication in a heterogeneous wireless network - Performance evaluation
- f. Write short note on challenges of traffic control system in CV https://www.hindawi.com/journals/wcmc/2020/8841893/
- g. How do you interface traffic control with the CV <u>https://www.hindawi.com/journals/jat/2021/3584569/</u>
- h. List any two data standard https://core.ac.uk/download/pdf/141667172.pdf

Big Questions

- a. Discuss Value creation structure for the future https://www.diva-portal.org/smash/get/diva2:949408/FULLTEXT01.pdf
- b. Explain Fundamentals of traffic control systems. https://www.britannica.com/technology/traffic-control
- c. Write Case study on Vehicle-to-Infrastructure Applications (V2I) https://rosap.ntl.bts.gov/view/dot/32031/dot_32031_DS1.pdf?
- d. What does mean by Infrastructure-Based CV Devices https://www.transportation.gov/research-and-technology/how-connected-vehicles-work

https://www.techtarget.com/whatis/definition/vehicle-to-infrastructure-V2I-or-V2X#:~:text=Vehicle%2Dto%2Dinfrastructure%20(V2I,streetlights%2C%20signage%2 0and%20parking%20meters.

- e. Discuss on Deployments of Connected Vehicle Technology <u>https://www.transportation.gov/briefing-room/us-dot-advances-deployment-connected-vehicle-technology-prevent-hundreds-thousands</u>
- f. Write elaborately on Fuel injector for intake-manifold injection Refer Bosh material shared
- g. Elaborate the need of traffic control systems, Discuss https://www.hindawi.com/journals/wcmc/2020/8841893/
- h. What is an autonomous vehicle? How does it work? Relate it with data standards. https://core.ac.uk/download/pdf/141667172.pdf
- i. Discuss on Data standards with possible applications using reliable case studies. https://core.ac.uk/download/pdf/141667172.pdf
- j. Write Case study on Automotive security applications https://resources.sei.cmu.edu/asset_files/webinar/2016_018_100_465585.pdf
- k. Discuss about Data standards https://core.ac.uk/download/pdf/141667172.pdf
- I. Disuses on Motronic engine-management system https://avtotachki.com/en/chto-takoe-sistema-motronic/