32161 - AUTOMOBILE BODY BUILDING

1. CAR BODY BUILDING ENGINEERING Part – A & Part – B Questions

- 1. Define vehicle body?
- 2. What are the necessities for recruitment of a vehicle body?
- 3. What are the classifications of passenger vehicle body construction?
- 4. Define kerb weight?
- 5. What are the safety systems provided in passengers car?
- 6. What is separate body and faces chases?
- 7. What is bonnet?
- 8. What is Centre Pillar?
- 9. What is the importance of space in a car?
- 10. Name the various types of car bodies?
- 11. What is hatchback?
- 12. What is limousine?
- 13. What are car convertibities?
- 14. What is run a pout?
- 15. Mention the special feature of the estate van type body?
- 16. Mention visibility regulations?
- 17. Mention the drivers visibility test?
- 18. Define seat belt?
- 19. Define lap belt?
- 20. What is driver's airbag?
- 21. What is ABS?
- 22. What is roo bar?

Part - C

- 1. Explain the different types of Passenger car bodies with figure?
- 2. Bring out the importance of safety in car body design?
- 3. Explain various safety equipment used?
- 4. Explain about the visibility consideration in body design?
- 5. Describe about safety in passenger car design?
- 6. Discuss about the conventional and integral types bus body construction?
- 7. Explain about the bus body cross section and details of structure members?

2. BODY BUILDING ENGINEERING

Part - A & Part - B Questions

- 1. Define bus?
- 2. Mention the uses of bus?
- 3. How the bus bodies are classified?
- 4. How will you classify the bus body based on materials?
- 5. What is town bus?
- 6. What is mini bus?
- 7. What is single deck bus?
- 8. What is articulated bus?
- 9. What is interior work?
- 10. Name different types of engine location in a bus?
- 11. What is double deck bus?

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Part - C

- 1. Explain briefly about driver cab design?
- 2. What are the various the Aerodynamic forces acting on a vehicle body and mention their effects?
- 3. Explain the flow visualization techniques?
- 4. Explain the various types of light commercial vehicle bodies?
- 5. Explain the various body Optimization techniques for minimum drag?
- 6. Explain in detail about different types of commercial vehicle bodies?

3. COMMERCIAL VEHICLES CONSTRUCTION ENGINEERING Part – A & Part – B Questions

- 1. What are the types of commercial vehicle body?
- 2. Name the types of heavy commercial vehicle body?
- 3. What are the advantages of box van?
- 4. What are the disadvantages of articulated type over rigid type?
- 5. What are cross bar?
- 6. What is normal control?
- 7. What is forward control?
- 8. What is box van?
- 9. What is 6 wheel rigid type vehicle?
- 10. What is 8 wheel rigid type vehicle?
- 11. What is articulated vehicle?
- 12. What is the purpose of tanker body?
- 13. What is knee in a seat?
- 14. What is towing bar?
- 15. Write a note on ergonomically designed driver seat?

Part - C

- 1. Explain the major damage & repair of vehicle body?
- 2. Explain the design features of an integral body frame?
- 3. Explain the various steps to be taken in replacement of the outdoor panel?
- 4. Explain the various types of commercial vehicle bodies?
- 5. Explain about the different engine location entrance and exit location in bus construction?
- 6. Explain different types of metal sections used in bus body?

4. VEHICLE AERODYNAMICS Part – A & Part – B Questions

- 1. What is aerodynamics?
- 2. What are the objectives of aerodynamics?
- 3. What is Aerodynamic drag force?
- 4. What are the effects of Forces?
- 5. What is profile drag and lift drag?
- 6. What is pitching?
- 7. What is rolling?
- 8. What is yawing?
- 9. What is side force?
- 10. What is wind tunnel?
- 11. What are the advantages of wind tunnel test?
- 12. What is pitching moment?
- 13. What is different types of wind tunnel testing?
- 14. What are the different types of Aerodynamic drag?

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- 15. What is surface drag?
- 16. What are the various moments acting on a vehicle body?

Part - C

- 1. Explain the minor damage & repair of a vehicle body?
- 2. Explain the design features of an internal body frame?
- 3. Explain the construction of following types of vehicle body 1 flat plat form -2 tipper?
- 4. Discuss in detail about driver seat and driver cabin in commercial vehicles?
- 5. Explain in detail the tanker body construction with neat sketch?
- 6. Discuss the different materials used for body construction and stay there merits and demerits?

5. BODY MATERIAL, MAINTENACE AND SURFACE FINISH

Part - A & Part - B Questions

- 1. Name the materials used for automobile body?
- 2. Write a note on steel sheet?
- 3. Write a note on timber body material?
- 4. Explain GRP?
- 5. Define corrosion?
- 6. What are the types of corrosion occurs in body?
- 7. What is galvanic corrosion?
- 8. Define crevice corrosion?
- 9. What is galvanization?
- 10. What do you mean by tinkering?
- 11. Define Soldering?
- 12. What is metalloid paste?
- 13. Write a note on and suction cup?
- 14. What is painting?
- 15. What is a pigment?
- 16. What are additives?
- 17. Define paint dving?
- 18. Define degreasing and cleaning process?
- 19. Define electroplating?
- 20. What are the defects occurred during the painting?

Part - C

- 1. Explain different types of body corrosion and their causes?
- 2. Explain four Coat method of vehicle body painting with diagram?
- 3. Explain about the modern painting processes bar vehicle body?
- 4. Explain briefly about electroplating of component and vacuum coating?
- 5. Explain about various vehicle painting method?