

32181 – TWO WHEELER & THREE WHEELER TECHNOLOGY

1. THE POWER UNIT AND FUEL SYSTEM

Part – A

1. Give the examples of two stroke engine using two wheelers?
2. What are the merits of two stroke S.I engines in two wheelers?
3. What is scavenging?
4. What are the types of scavenging?
5. What are the types of scavenging pump?
6. What is gravity fuel system in two wheelers?
7. What is scavenging pump?
8. What are the types of lubrication system used in two wheelers?
9. What are the merits of splash lubrication system?
10. Name the types of fuel system used in two and three wheelers?
11. Name the materials used for making tank?
12. What are the demerits of two stroke S.I engines in two wheelers?
13. What is the use of scavenging pump?

Part –B

1. What is a two stroke engine?
2. What are the merits of four stroke S.I engines in two wheelers?
3. What are the demerits of four stroke S.I engines in two wheelers?
4. What is scavenging efficiency?
5. What are advantages in petrol system of lubrication in two wheelers?
6. What is a four stroke engine?
7. What is the port timing diagram?
8. What is mean by symmetrical port timing?
9. Define delivery ratio?
10. What is the function of fuel feed pump?
11. What are the types of fuel feed system?
12. What is the purpose (or) functions of lubrications?

Part –C

1. Briefly explain symmetrical port timing diagram?
2. Briefly explain un symmetrical port timing diagram?
3. Explain any one types of scavenging system?
4. With neat sketches explain the working of two stroke S.I engine?
5. With neat sketches explain the working of four stroke S.I engine?
6. Explain SU carburetor with neat diagram in two and three wheeler?
7. Explain Fuel injector with neat diagram in two and three wheeler?

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8. Explain the petrol and splash lubrications systems with sketches in two and three wheelers?
9. Explain the full pressure lubrication systems with sketches in two and three wheelers?
10. With neat sketches explain the working of two stroke C.I engine?
11. With neat sketches explain the working of four stroke C.I engine?

2. IGNITION SYSTEMS AND ELECTRICAL SYSTEMS

Part – A

1. What are the merits of magneto coil ignition system?
2. What are the types of kick starting mechanism?
3. Define gear ratio?
4. What are the gear box troubles?
5. Name the components in chain drive mechanism?
6. What are the loads on the frame?
7. What are the types of ignition system?
8. What are the types of spark ignition?
9. What are the types of parts used in digital speedometer?

Part – B

1. Define spark ignition engine?
2. What is a kick starter mechanism?
3. Write a note on hall effect sensor?
4. What are the main components of magneto coil ignition systems?
5. What do you mean by self starter mechanism?
6. Compare battery ignition and magneto ignition systems?
7. What are the battery rating in two and three wheelers?

Part –C

1. Explain battery coil ignition system in two and three wheelers?
2. With neat sketches explain kick starting system?
3. Explain magneto coil ignition system in two and three wheelers?
4. Explain electronic coil ignition system in two and three wheelers?
5. Write in brief about the electric starting mechanism?
6. Explain about DTSI mechanical speedometer?
7. With a neat sketch explain the DTSI digital speedometer?
8. Write a note on electrical system layout of two and three wheelers?

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3. CHASSIS AND SUB SYSTEMS

Part - A

1. What are types of main frame in two wheeler?
2. What are types of clutch is used in two wheeler?
3. What are the types of front suspension system in two wheeler?
4. What are the types of rear suspension system in two wheeler?
5. What is the main purpose of shock absorber?
6. Name few parts used in panel meters?
7. What is the recommended tyre pressure for two wheeler?
8. What is the recommended tyre pressure for three wheeler?
9. Define run out?
10. What is the main purpose of tachometer used in a vehicle?
11. What are the types of main framed and chassis of three wheelers?
12. What are the types of transmission?
13. What are the types of motor cycle speedometer?

Part – B

14. What is main frame?
15. What is chain drive?
16. Write few advantages of torsion bar?
17. What is the main purpose of shock absorber?
18. Name the controls available on the handle bar?
19. Name the different types of brake drum shoes?
20. What are the components of major frame?
21. What is the principle of clutch?
22. What is the function (or) purpose of clutch?
23. What are the types of shock absorber?

Part – C

1. Explain shaft drive in three wheeler?
2. Explain the working of centrifugal clutch?
3. Explain main frames in types?
4. Describe chain drive in two wheeler?
5. Explain the working of single plate clutch with neat diagram?
6. Explain the working of multi plate clutch with neat diagram?
7. Explain the working of sliding mesh gear box?
8. Explain the working of constant mesh gear box?
9. Describe the front and rear suspension system for two wheeler?
10. Describe the front and rear suspension system for three wheeler?
11. Describe the controls on handle bar?
12. Explain the main components attached to the two wheeler frames?
13. Explain the working of continuous variable transmission(CVT) ?

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4. BRAKES AND WHEELS

Part – A

1. What types of brakes is fitted in two and three wheeler?
2. What are the types of disc used in two and three wheeler?
3. What is the recommended tyre pressure of two wheeler?
4. What is the recommended tyre pressure of three wheeler?
5. What are the types of wheels used in two and three wheeler?
6. Which type of tyre is used in two and three wheelers?
7. What is the clearance for inlet and exhaust valves?
8. What is the clearance for CB points?
9. Define puncture?
10. What are the types of caliper assemblies?

Part – B

1. Write few components used in three wheeler disc brake system?
2. What is spokes wheel?
3. What is cast wheel?
4. What is disc wheel?
5. Write main function of tyre?
6. What are the types of tyre?
7. What is the purpose of alloy wheel used in two wheelers?
8. What is the use of inflating valve (tube valve) ?
9. What is the method to adjust idling speed?
10. What is the causes for wheel wobbling?
11. How will you clean the spark plug?
12. What is a function of brakes?
13. Comparison of cross ply and radial ply tyres?
14. Comparison of tube tyre and tubeless tyres?

Part – C

1. Explain drum brake types?
2. Describe front and rear brake link layout for two wheeler?
3. Explain types of wheels used in two and three wheeler?
4. Explain drum brake system in two wheeler?
5. Explain disc brake system in two and three wheeler?
6. Describe front and rear brake link layout for three wheeler?
7. Explain different types of discs used in two and three wheeler?
8. Explain different types of tyres used in two and three wheeler?
9. Explain construction of tyres with neat sketch?

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5. TWO AND THREE WHEELERS

Part – A

1. Name the different types of two wheelers?
2. List down the important components of scooter?
3. List down the important components of motor cycle?
4. Write the troubles shooting on clutch slipping in scooters?
5. What is the clearance for CB points? mention the clearance between the electrodes in spark plug? what is the standard clearance for inlet and exhaust valves?
6. Mention the normal clutch free play for a motor cycle?
7. What is the function of accelerator?
8. Name the types of three wheelers?
9. What are the uses of auto rickshaw and pickup vans?
10. Name three reasons for preventive maintenance?
11. What is wheel wandering?
12. What is preventive maintenance?

Part – B

1. What is a moped?
2. What is a scooter?
3. Define a motor cycle?
4. Write trouble shooting on engine in mopeds?
5. Write trouble shooting on stuck up in scooter?
6. List some maintenance tips in motor cycle?
7. what are the few important components of three wheeler?
8. What are the benefits of auto rickshaw?
9. What is an auto rickshaw?
10. What is the meant by overhauling?
11. What are the causes for spongy pedal?
12. Comparison of moped and motor cycle?
13. Comparison of motor cycle and scooter?
14. Give some maintenance tips for scooter?

Part – C

1. Explain the main components functions of a two wheeler?
2. Describe the maintenance schedules of two wheelers?
3. Discuss about the servicing and maintenance of moped, scooter, motor cycle?
4. Draw the layout of motorcycle and name its parts and their functions?
5. Write mandatory checks of motor cycle?
6. Explain adjustment controls of motor cycle parts?
7. Draw the layout of three wheeler and Name the different components with their functions?
8. Discuss about the case study of motor bikes in terms of service and maintenance?
9. What are the important components and their functions of auto rickshaw?
10. What are the important components and their functions of pickup vans?
11. What are the important components and their functions of delivery vans?
12. What are the component and their functions of trailer?
13. Draw the layout of three wheeler and Name its parts and their function?
14. Discuss above the serving and maintenance of three wheeler?
15. Describe the maintenance schedule of three wheeler?