



Model Question Paper (Mark Evaluation) +2 Basic Automobile Engineering Vocational Theory

Theory Marks – 90

Internal Assessment Marks – 10

Total Marks – 100

Part – A	Choose the best answer	$15 \times 1 = 15$
Part – B	Answer the following Questions (Answer any 10 out of 13 Questions)	$10 \times 3 = 30$
Part – C	Answer the following Questions (Answer any 5 out of 7 Questions)	$5 \times 5 = 25$
Part – D	Answer all the Questions (Either or Type)	$2 \times 10 = 20$

+2 Model Question Paper (English Medium)

(Theory Marks : 90)

Part – A

Choose the correct Answer

Answer all the questions. $15 \times 1 = 15$

- The Transmission system which has good road grip is,
 - Front engine rear wheel drive
 - Rear engine rear wheel drive
 - Front engine front wheel drive
 - Front engine four wheel drive
- Types of Multiplate clutch
 - 3
 - 4
 - 2
 - 5
- In which type of clutch, there is no need of clutch pedal?
 - Single plate clutch
 - Multiplate clutch
 - Diaphragm clutch
 - Centrifugal clutch
- Which type of lubricating oil is used in gear box?
 - S.A.E 30
 - S.A.E 40
 - S.A.E 90
 - S.A.E 120



5. Top Gear ratio is
 - a. 1:2
 - b. 2:1
 - c. 1:1
 - d. 3:1
6. Which device is used to adjust the angle Variation and transmit the power?
 - a. Propeller shaft
 - b. Sliding joint
 - c. Differential
 - d. Universal Joint
7. Tyre strength is indicated by
 - a. Bead
 - b. Tread
 - c. Ply rating
 - d. side wall
8. Brake shoes are made up of
 - a. Asbestos
 - b. Aluminium alloy
 - c. Steel Alloy
 - d. Copper
9. Which type of brake is mostly used in cars?
 - a. Vaccum brake
 - b. Hydraulic brake
 - c. Mechanical Brake
 - d. Air Brake
10. The up and down movement of the vehicle is called
 - a. Rolling
 - b. Skidding
 - c. Bouncing
 - d. Pitching
11. Caster angle is
 - a. 1o to 2o
 - b. 2o to 4o
 - c. 3o to 4o
 - d. 2o to 3o
12. Back bone of the vehicle is
 - a. Chassis frame
 - b. Body
 - c. Engine
 - d. Gear box
13. The number of turns in the primary winding of the ignition coil is
 - a. 100 to 150
 - b. 150 to 300
 - c. above 400
 - d. 600 to 700
14. How does the dynamo (or) Generator get the drive?
 - a. connecting rod
 - b. Piston
 - c. Engine Crank shaft
 - d. Engine Cam shaft
15. The part used to connect front axle and stub axle is
 - a. Piston pin
 - b. King pin
 - c. Cotter pin
 - d. Circlip

Part – B

Answer any ten Questions.
Question number 25 is compulsory

$$10 \times 3 = 30$$

16. Explain Air Resistance.
17. What are the advantages of diaphragm clutch?
18. What are the types of gear box?
19. What are the types of rear axle Shaft?
20. What is the effect of low tyre pressure?



21. What are the properties of brake fluid?
22. What are the advantages of Anti – lock – brake system?
23. What are the types of shock absorber?

24. Define – steering ratio.
25. Define – wheel base.
26. What is the use of cut out unit?
27. What is the use of condenser?
28. State any three types of clutch.

Part - C

Answer any five questions.
Question number 33 is compulsory

$5 \times 5 = 25$

29. Draw and explain briefly the front engine Rear Wheel drive transmission system.
30. Draw and mark the parts of propeller shaft.
31. What are the advantages and disadvantages of independent suspension system?

32. What are the requirements of vehicle body?
33. Draw and label the parts of head lamp circuit.
34. What are the reasons and remedies for clutch slip?
35. What are the advantages and disadvantages of power steering?

Part – D

Answer all the Questions

$2 \times 10 = 20$

36. Explain the construction and working of single plate clutch with neat sketch

(Or)

Draw and explain the construction and working of differential unit.

37. Explain the construction and working of battery coil ignition system with neat sketch

(Or)

Explain the construction and working of master cylinder with neat sketch