aglasem.com

FOR AP CLASS 11 EXAM PREPARATION

AP Class 11 2027 Model Paper · Mechanical, Automobile Technician

EXAM	YEAR	TYPE	SUBJECT
AP Class 11	2027	Model Paper	Mechanical, Automobile Technician

Model Question Paper

MECHANICAL & AUTOMOBILE TECHNICIAN
I YEAR

PAPER-I

WORK SHOP TECHNOLOGY (THEORY)

IME: 3 Hours Max. Marks: 50

SECTION-A

NOTE: 1) ANSWER ALL THE QUESTIONS 10 x 2 = 20
(ii) EACH QUESTION CARRIES TWO MARKS

1. What are the uses of aluminum?
2. List out carpentry joints.
3. Write the types of grinding machines.
4. What is the purpose of mallet?
5. Write the types of welding methods.
6. What is meant by Annealing?
7. What are the types of gas welding flames?
8. What is the importance of surface treatment?
9. List out hand Moulding tools used in foundry shop.
10. Define casting

SECTION-B

NOTE: (i) ANSWER ANY FIVE QUESTIONS 5 x6 = 30
(ii) EACH QUESTION CARRIES SIX MARKS

11. Discus about some mechanical properties and uses of metals.
12. Define file and explain about any four files with sketch.
13. Explain about sensitive drilling machine with neat sketch.
16. Explain TIG welding with sketch.
14. Explain about any four carpentry processes.
15. Explain about any four important sheet metal operations.
17. Explain about Coating and painting process.
18. Explain various defects occur in the casting.

Model Question Paper

MECHANICAL & AUTOMOBILE TECHNICIAN
I YEAR

PAPER-II

BASIC MECHANICAL & ELECTRICAL ENGINEERING (THEORY)

TIME: 3 Hours Max. Marks: 50

SECTION-A

NOTE: (i) ANSWER ALL THE QUESTIONS 10 x 2 = 20
(ii) EACH QUESTION CARRIES TWO MARKS

1. What is intensive property?
2. What is meant by rivet?
3. Write the types of fuels.
4. Define Zeroth law of thermodynamics.
5. Write types of power transmission.
6. Define resistance.
7. State the Ohm's Law.
8. State Fleming left hand rule.
9. List out types of cells.
10. What is the purpose of head lamp?

SECTION-B

NOTE: (i) ANSWER ALL THE QUESTIONS 5 x 6 = 30
(ii) EACH QUESTION CARRIES TWO MARKS

11. Derive all expressions for constant pressure process.
12. Explain about Carnot cycle with P-V and T-S diagram.

13. Explain some solid fuels.

14. Explain about types of belt fasteners.
15. Explain about functions of Basic microprocessor.

16. Briefly explain about D.C Motor.

17. Write about applications of lead acid cell.
18. Explain working of battery ignition system with line diagram.

Model Question Paper

MECHANICAL & AUTOMOBILE TECHNICIAN
I YEAR

PAPER-III

AUTOMOBILE POWER PLANTS (THEORY)

TIME: 3 Hours Max. Marks: 50

SECTION-A

NOTE: (i) ANSWER ALL THE QUESTIONS 10 x 2 = 20
(ii) EACH QUESTION CARRIES TWO MARKS

1. Define scavenging.
2.What is Muffler?
3.How IC Engines are classify.
4. Write types of fuel pumps.
5. Mention the engine parts.
6. Write methods of cooling system.
7. Write various additives of lubricants.
8. Write the parts of Air Conditioning system?
9. Write the differences between axial fan and centrifugal fan.
10. What is necessity for engine performance testing?

SECTION-B

NOTE: (i) ANSWER ANY FIVE QUESTIONS 5 x 6 = 30
(ii) EACH QUESTION CARRIES SIX MARKS

11. Explain connecting rod with neat sketch.
12. Explain the working principle of two stroke petrol engine with sketch
13. Explain comparison between petrol and diesel engine.
14. Explain carburetor with neat sketch.
15. Explain forced feed type lubrication system.
16. Briefly explain about cooling system.
17. Explain construction of air conditions ina car.
18. Write about types of automobile emissions.