

1 ST PUC – MODEL QUESTION PAPER-1

2020-21

NATIONAL SKILL QUALIFICATION FRAME WORK (NSQF)

LEVEL – 3

Subject: **AUTOMOBILE**

Time: 1:30 PM to 3:30 PM

Subject Code No: **63 E**

Max Marks: **60**

PART -A

I. Choose the correct answer.

10 x 1=10

1. The triangle is a plane figure bounded by _____ sides
a) One b) Two c) Three d) four
2. A4 sheet means
A) 841*1189mm B) 420*594mm C) 210*297mm D) 420*594mm
3. Important component of non-ferrous material
a) Aluminum b) Chromium c) Brass d) All of the above
4. Iron containing carbon between 2 & 4 % is called
A) Cast iron B) Alloy steel C) Magnesium D) Copper
5. RPM is used to read
A) Viscosity B) Resistance C) Specific Gravity D) Speed
6. % of heat removed by cooling system is
A) 80% B) 30% C) 50% D) 20%
7. Tube and tubeless tyre also known as
A) Solid tyre B) Pneumatic tyre C) Hybrid tyre D) Traditional Tyre
8. Clutch assembly helps in
A) Transmit total engine power to gear box B) Transmit total engine power to steering
C) Transmit total engine power to engine D) Transmit total engine power to front axle
9. Amount of copper normally used in today's car is approximately.....
A) 20 kilogram B) 19 kilogram C) 23 kilogram D) 30 kilogram
10. Brakes which are assisted to work compressed air are called brakes.
A) Air B) Pneumatic C) Oil D) None of these.

PART -B

II) Answer the following any ten question in one or two sentences each.

10X2=20

11. List out the essential instruments and equipment for geometric construction of drawing?
12. What do you mean by manufacturing process?
13. List the types of basic line?
14. Why engineering drawing are important in manufacturing and assembly?
15. List the basic steps of casting?
16. What is the function of clutch?
17. What is the difference between clutch and gear?
18. Mention the parts of cooling system?
19. Mention the procedure to check the leakage in the vehicle.
20. Write the Steps to clean or washing of the engine in a vehicle.
21. What is tuning?
22. Write the functions of gear box?
23. List the different types of brakes used in automobile?

III) Answer the following any six questions in two or three sentences each.

6x3 = 18

24. Construct an angle of 30 degree?
25. Sketch the layout of drawing sheet?
26. Give the classification of engineering material?
27. What is the difference between oil and coolant?
28. What are the steps to be followed while servicing of mechanical brakes?
29. What are the different joining process used in manufacturing process?
30. Give the difference between clutch and Gear?
31. Write a short note on objective of NSQF project?

IV) Answer the following any two question in five or six sentences each.

2x6 = 12

32. Describe the various production process in manufacturing unit?
33. Describe the regular maintenance of an engine?
34. Draw a diagram of Tube and tubeless tyre?
35. What are the steps to be followed in repair of punctured tube tyre?

-----**ALL THE BEST**-----

PART – A

I. Choose the correct answer

10*1=10

1. A Drawing is a.....representation of a real object.
A) Graphical B) Pictorial C) Accurate D) Shape
2. A synthetic materials consists of.....
A) Ceramics B) Plastic C) Composite D) All of the above
3. The ignition system converts current from.....to..... volts.
A) 22000V to 12V B) 12000V to 22000V C) 20000V to 12V D) 12V to 20000V
4.is the oldest form of manufacturing process.
A) Casting B) Welding C) Machining D) Forming
5. Most automobile engine piston has.....rings
A) Three B) Two C) Four D) Six
6. The cooling system removes.....percentage of the heat of an engine.
A) 100 B) 30 C) 50 D) 80
7.is used for measuring the working speed of an engine.
A) Multi meter B) Tachometer C) Speedo meter D) Ammeter
8. In motor cycle, lubricating oil is changed at..... km
A) 1000 to 2000 B) 2000 to 3500 C) 8000 to 8500 D) 5000 to 6000
9.machine is used for hot patch process.
A) Vulcanizes B) Ammeter C) Wheel Balancer D) Tachometer
10. Alloy wheels are used in.....
A) Cars B) Heavy Vehicles C) Buses D) All of the above

PART – B

II. Answer the following any ten question in one or two sentences each.

10*2=20

11. What is the meaning of engineering drawing?
12. Write the importance of engineering materials.
13. Make a list of important production process used in manufacturing process.
14. List the common leakages take place in an engine.
15. Why engine tuning is important in a vehicle.
16. Write the functions of cooling system.
17. What are the main components of a transmission system?
18. Write the importance of wheel used in automobile.
19. List the types wheels used in automobile.
20. What are the precautions to be taken while hub greasing and bearing ply adjustment?
21. Write the advantages of tubeless tire.
22. List the different types of brakes used in automobile.
23. Write the functions of gear box.

III. Answer the following any six question in two or three sentences each 6*3=18

24. List the importance tools and instruments used while making engineering drawing.
25. Define following.
A) Visible Line B) Section Line C) Centre Line
26. Write the advantages of engine tuning.
27. What are the precautions to be taken while cleaning of an engine?
28. Write a short note on transmission system.
29. Write the difference between disc wheel and alloy wheel.
30. Write the procedure for adjusting the free play of clutch in two wheeler.
31. List the functions of good braking systems in a automobile.

IV. Answer the following any two question in five or six sentences each. 2*6=12

32. Construct a hexagon of a side AB=5cm.
33. Classify engineering materials and explain any two.
34. Write the procedure for puncturing of tube by hot patch process.
35. What are the steps to be followed while checking the lubrication system?

-----**ALL THE BEST**-----