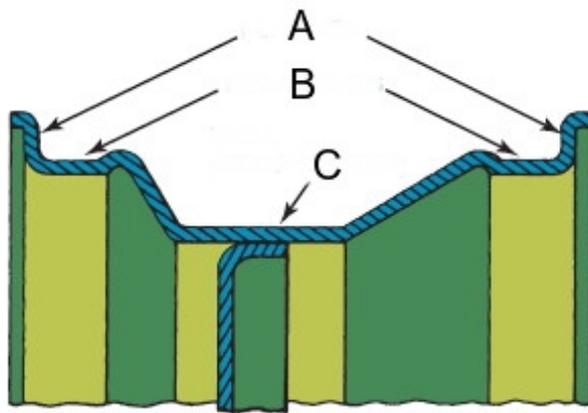


MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Tire inflation is very important to the safe and economical operation of any vehicle. Technician A says that the tire pressure should never exceed the maximum pressure imprinted on the sidewall of the tire. Technician B says to inflate tires to the pressures recommended on the tire information decal or placard on the drivers door. Which technician is correct? 1) _____
- A) Technician A only
 B) Technician B only
 C) Both technicians
 D) Neither technician

- 2) Technician A says to always purchase replacement tires with the same or greater speed rating as when the vehicle was new. Technician B says to install the same type of tire (example: m+s) on all wheels. Which technician is correct? 2) _____
- A) Technician A only
 B) Technician B only
 C) Both technicians
 D) Neither technician

- 3) Which part of the wheel shown is responsible for holding the tire beads in place? 3) _____



- A) B
 B) C
 C) A
 D) None of these

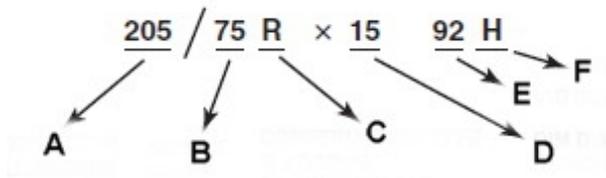
- 4) Which of these is (are) a main function of tires? 4) _____
- A) Serve as shock absorbers to cushion the vehicle ride
 B) Provide friction (traction) between the vehicle and the road
 C) Both A and B
 D) Neither A nor B

- 5) Which of the following is not part of the UTQG system? 5) _____
- A) Temperature
 B) Traction
 C) Speed rating
 D) Treadwear

- 6) Radial tires can cause a vehicle to pull to one side while driving. This is called "radial tire pull" and is often due to _____. 6) _____
- A) Tire conicity
 B) Tread design
 C) The angle of the body (carcass) plies
 D) Bead design

7) Which number or letter indicates the tire height?

7) _____



- A) D B) F C) C D) E E) A F) B

8) The dot painted on many tires near the major splice indicates _____.

8) _____

- A) The smallest diameter of the tire B) A sipe
C) The largest diameter of the tire D) None of these

9) Kevlar is the brand name for which fiber used in tire construction?

9) _____

- A) Nylon B) Polyester C) Aramid D) None of these

10) What do the letters JJ mean in a wheel designation size labeled 14x7JJ?

10) _____

- A) The bolt circle code B) The shape of the flange area
C) The back spacing of the rim D) The offset of the rim

11) Hydroplaning can occur at speeds as low as _____.

11) _____

- A) 55 mph B) 30 mph C) 40 mph D) 45 mph

12) Technician A says that the load index marked on the tire indicates the maximum load the vehicle can carry. Technician B says that the load index marked on the tire indicates the maximum load each tire is designed to carry. Which technician is correct?

12) _____

- A) Technician A only B) Technician B only
C) Both technicians D) Neither technician

13) High flotation truck tires are designed for _____.

13) _____

- A) Superior traction in sand or mud B) Superior off-road performance
C) Both A and B D) Neither A nor B

14) Technician A says that grooves in the tire tread are necessary for excellent dry traction. Technician B says that grooves in the tire tread are necessary for wet traction, to prevent hydroplaning. Which technician is correct?

14) _____

- A) Technician A only B) Technician B only
C) Both technicians D) Neither technician

15) The part of the tire that is just under the tread of a radial tire is called the _____.

15) _____

- A) Bead B) Belt
C) Inner liner D) Body (carcass) ply

16) During tire construction, after the tire has been heated to 300 degrees F (150 degrees C) for 30 minutes, it is called a _____.

16) _____

- A) Cured tire B) Green tire C) Both A and B D) Neither A nor B

- 17) The aspect ratio of a tire means _____. 17) _____
A) The ratio of height to width B) The ratio of rolling resistance
C) Its width to diameter of a wheel ratio D) The ratio of width to height

- 18) The difference between a conventional tire and a run-flat tire is the _____. 18) _____
A) Amount of air pressure B) Type of construction
C) Size D) All of the above

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 19) All radial tires are belted. 19) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 20) Technician A says that a damaged bead can be repaired. Technician B says that tires with damaged beads must be replaced. Which technician is correct? 20) _____
A) Technician A only B) Technician B only
C) Both technicians D) Neither technician

- 21) Technician A says that backspacing is the same as offset. Technician B says that backspacing is the distance between the back rim edge and the wheel center section. Which technician is correct? 21) _____
A) Technician A only B) Technician B only
C) Both technicians D) Neither technician

- 22) Technician A says that the bolt circle is the diameter of a circle that can be drawn through the center of each lug hole or stud. Technician B says that lug nuts have different tapers to fit different wheel lug holes. Which technician is correct? 22) _____
A) Technician A only B) Technician B only
C) Both technicians D) Neither technician

- 23) A tire is labeled 215/60R_x15 92T; the T indicates _____. 23) _____
A) Its load rating B) Its speed rating
C) Its temperature resistance rating D) Its tread wear rating

- 24) Wheel back spacing is also called _____. 24) _____
A) Positive offset B) Rear spacing C) Negative offset D) Offset

- 25) Which of the following may be part of a radial tire belt? 25) _____
A) Steel mesh B) Rayon
C) Nylon D) All of these are correct

- 26) If the center section of a wheel is outward from the wheel center line, it has _____. 26) _____
A) Neutral offset B) Flatness C) Negative offset D) Positive offset

- 27) When purchasing replacement tires, do not change tire width from the stock size by more than _____. 27) _____
A) 15 mm B) 20 mm C) 25 mm D) 10 mm

- 28) Technician A says that all tires sold for passenger vehicle use must be approved by the DOT. Technician B says that the DOT code will indicate the build date of the tire. Which technician is correct? 28) _____
- A) Technician A only B) Technician B only
C) Both technicians D) Neither technician
- 29) Front-wheel drive vehicles usually use what type of wheel? 29) _____
- A) Negative offset B) Either one, depending on the tire size
C) Positive offset D) Neither of these
- 30) A tire is labeled 215/60R15 92T; the 92 indicates _____. 30) _____
- A) Speed rating B) Temperature resistance rating
C) Tread wear rating D) Load rating