

Loyola ITI

MMV 2nd YEAR

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Student Name	PRAVEEN LAMANI	Access Code	1662
Attempt No.	#1	Completion Time	03:20 PM
Rank	#24	Total Questions	44

12 SCORE

44 MAX MARKS

12 CORRECT

32 INCORRECT

Answer Review

Q1 **INCORRECT** What is the name of distance between most protruding portions on both sides of tyre?

A. Tyre outer diameter ☐

B. Tyre height ☐

C. Tyre width ☒

D. Thread radius ☐

Q2 **INCORRECT** Which is the heart of integral power steering system?

A. Flow control valve ☐

B. Rotary control valve ☒

C. Pressure relief valve ☐

D. Unloading valves ☐

Q3 **CORRECT** What is the advantage of coil spring?

A. Good load carrying capacity

B. High steering and stability

C. Low space requirement ☒

D. Provide greater pay load

Q4 **INCORRECT** Which system provided between axles and chassis frame?

A. Braking system

B. Suspension system ☒

C. Steering system

D. Cooling system ☐

Q5 **INCORRECT** Which is not the function of suspension system?

A. It maintains body level

B. It gives cushioning effects

C. It transfer braking torque to the chassis ☐

D. It increase steering stability ☒

Q6 **CORRECT** What is the purpose of castor in wheel alignment?

A. Maintain directional stability and control ☒

B. Reduce tyre wear

C. Reduce abnormal vibration

D. Convert steering torque input into voltage signal

Q7 **INCORRECT** Where the airbags are located in the air suspension system?

A. Between frame and vehicle axle ☐

B. Between high control valve and frame ☐

C. Between air pressure regulator and front axle

D. Between brake tank and vehicle axle

Q8 **CORRECT** What is the purpose of air suspension?

A. Used for leveling purpose ☐

B. Reduce the suspension weight

C. Increase the directional stability

D. Reduce the space occupation

Q9 **INCORRECT** What is the disadvantage of rigid axle suspension system?

A. Spring weight is less

B. Vibration damping is less effective ☐

C. This is a complicated arrangement

D. Maintenance cost is more ☐

Q10 **INCORRECT** What is the advantage of using nitrogen in the tyres?

A. Provide positive road grip

B. Increase the tyre life ☐

C. Provide cushioning effect on the vehicle

D. Observe shocks and vibration ☐

Q11 **INCORRECT** When the driver is warned of difference in tyre pressure?

A. Difference in pressure exceeds 30% ☐

B. Difference in pressure more than 10%

C. Difference in pressure more than 20% ☐

D. Difference in pressure exceeds 40%

Q12 **INCORRECT** What is the cause of noise in steering?

A. High fluid level

B. Presence of air in the fluid ☐

C. Defective flow control valve ☐

D. Defective torsion bar

Q13 **INCORRECT** What is the impact of larger scrub radius?

A. Wear on the outer edge of tyre

B. Unequal braking on the front wheel ☐

C. Wear on the centre part of tyre ☐

D. Bending of steering linkage point

Q14 **CORRECT** What causes abnormal tyre wear, tyre slip and poor steering stability?

A. Incorrect toe - in and toe - out ☐

B. Malfunctioning of torsion bar

C. Presence of air in the brake fluid

D. Front axle bend/twist

Q15 **INCORRECT** What is the main cause for wear on one side of tyre?

A. Improper camber ☐

B. Improper caster

C. Over inflation

D. Under inflation ☐

Q16 **CORRECT** What is the cause of ?Poor self centering? in a vehicle?

A. Filter choked

B. Improper wheel alignment ☐

C. Loose wheel level

D. Low oil level

Q17 **INCORRECT** What causes the defect of ?Hard steering? in the hydraulic power steering system?

A. Improper position of drop arm

B. Tie rod loose fitting ☐

C. Band axle beam ☐

D. Improper size of tyre

Q18 **INCORRECT** What is the cause of ? low pressure? in the hydraulic power steering system?

A. Low oil level ☐

B. Wrong flow control valve setting ☐

C. Air in the system

D. Wornout sealing ring

Q19 **INCORRECT** What is the material used to make brake drum?

A. Stainless steel

B. High carbon steel ☐

C. Special type castiron ☐

D. High speed steel

Q20 **CORRECT** Where the non-return valve is located in the centre feed master cylinder?

A. On the reservoir

B. On the cylinder head

C. On the bypass port

D. On the pistons head ☐

Q21 **CORRECT** What is the recommended valve of combined angle in the steering system?

A. 5 - 8 Degree

B. 9 - 10 Degree ☐

C. 12 - 15 Degree

D. 15 - 18 Degree

Q22 **CORRECT** How the tyre height is calculated?

A. Rim dia - tyre outer dia

B. Tyre outer dia - Rim dia ☐

C. Thread width + Tyre width

D. Tyre width + Bead circle dia

Q23 **CORRECT** Which part of tyre referred as 'Crown'?

A. Thread width

B. Rim width

C. Tyre width

D. Thread radius ☒

Q24 **INCORRECT** Which type of wheel consist two separate discs are clamped together?

A. Split wheel ☒

B. Wire wheel

C. Disc wheel

D. Heavy vehicle ☐

Q25 **INCORRECT** Which part of integral power steering reduce fluid pressure?

A. Torsion bar ☐

B. Rotary valve

C. Unloading valve ☒

D. Flow control valve

Q26 **INCORRECT** Which is the heart of integral power steering system?

A. Flow control valve

B. Rotary control valve ☒

C. Pressure relief valve

D. Unloading valves ☐

Q27 **INCORRECT** What is the advantage of coil spring?

A. Good load carrying capacity ☐

B. High steering and stability

C. Low space requirement ☐

D. Provide greater pay load

Q28 **INCORRECT** Which type of independent suspension system simple in construction and allow more deflection of the front wheel without effect on the steering?

A. Torsion bar suspension ☐

B. Strut type suspension ☐

C. Coil spring suspension

D. Conventional suspension

Q29 **CORRECT** What is the advantage of using independent suspension system?

A. This is simple arrangement

B. Shocks are transmitted from one wheel to other

C. Spring weight is less ☐

D. Maintance cost is less

Q30 **INCORRECT** Which rating indicate the braking capabilities of the tire to the consumer?

A. Ply rating

B. Tyre rating

C. Traction rating ☐

D. Temperature rating ☐

Q31 **INCORRECT** What is the purpose of beads and plys provided in the tyre?

A. Provide strength to tyre ☐

B. Provide grippiness on the surface ☐

C. Prevent tyre slip

D. Resist vibration

Q32 **INCORRECT** What is the function of Rim in the wheel construction?

A. Support the axle

B. Provides balancing of vehicle ☐

C. Holds the tyre in correct position ☐

D. Distribute the load equally

Q33 **INCORRECT** When the driver is warned of difference in tyre pressure?

A. Difference in pressure exceeds 30% ☐

B. Difference in pressure more than 10%

C. Difference in pressure more than 20% ☐

D. Difference in pressure exceeds 40%

Q34 **INCORRECT** What will be the effect of negative camber excessive in the wheel alignment?

A. Outer edge of tyre wearout faster ☐

B. Centre of tyre wearout faster

C. Inner edge of tyre wear out faster ☐

D. Cracks developed in the tyre tread

Q35 **CORRECT** What is the cause of noise in steering?

- A. High fluid level
- B. Presence of air in the fluid ☒
- C. Defective flow control valve
- D. Defective torsion bar

Q36 **INCORRECT** What will be effect of unequal castor in the vehicle?

- A. Vehicle pull to one side wheel ☒
- B. Vehicle will not move
- C. Driver have to use less effort on steering ☐
- D. Increase steering stability

Q37 **CORRECT** Why rubber buffer is provided in the main spring of suspension system?

- A. Transfer pay load smoothly
- B. Protect chassis frame from heavy jerk ☒
- C. Transfer the load equally
- D. Provide steering control stability

Q38 **INCORRECT** Why the alternate spokes are screwed to slope forward and backward towards the rim in the wire wheel?

- A. To take the uneven load ☐
- B. To provide cushioning effect
- C. To observe braking and driving torque ☒
- D. To distribute the load evenly

Q39 **INCORRECT** What is the maximum percentage of stretch of its original length is allowable for elastic materials?

A. 100%

B. 200% ☐

C. 300% ☐

D. 400%

Q40 **INCORRECT** What is the unit of strain?

A. Kg/cm^2

B. Newton/metre^2

C. Metre ☐

D. No unit ☐

Q41 **INCORRECT** Which force acts on rivets?

A. Tensile force

B. Compressive force ☐

C. Shear force ☐

D. Bending force

Q42 **INCORRECT** What is the term used for maximum stress attained by a material before rupture?

A. Tensile stress

B. Compressive stress

C. Working stress ☐

D. Ultimate stress ☐

Q43 **INCORRECT** What is the ratio between ultimate stress to working stress?

- A. Bulk modulus
- B. Young's modulus
- C. Factor of safety ☐
- D. Modulus of rigidity ☐

Q44 **INCORRECT** What is the safe stress if the ultimate stress of a material is 35 kg/mm^2 and factor of safety is 5?

- A. 0.143
- B. 0.7
- C. 1.43 ☐
- D. 7 ☐