

Loyola ITI

MMV 2nd YEAR

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Student Name	abdul rehman peerjade	Access Code	2866
Attempt No.	#1	Completion Time	12:01 PM
Rank	#7	Total Questions	44

20 SCORE

44 MAX MARKS

20 CORRECT

24 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 **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

Q4 **CORRECT** 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 **CORRECT** 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 **INCORRECT** 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 **CORRECT** 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 **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

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 **CORRECT** 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 deffect 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 **CORRECT** 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 **CORRECT** 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 **CORRECT** 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 **INCORRECT** 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 **CORRECT** 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 **CORRECT** 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 **CORRECT** 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 **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

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 **CORRECT** 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 ☒