

Govt. ITI Bidkalkatte

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19.35% 18 / 93

Student Name	Shravantha	Access Code	1319
Attempt No.	#1	Completion Time	02:41 PM
Rank	#6	Total Questions	93

18 SCORE

93 MAX MARKS

18 CORRECT

75 INCORRECT

Answer Review

Q1 **INCORRECT** 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

Q2 **INCORRECT** What is the steering linkage ratio if the pitman arm length twice of steering arm length?

A. 02:01 ☐

B. 02:01

C. 01:02 ☒

D. 02:03

Q3 **CORRECT** What is the average power steering gear ratio followed in general?

- A. 40% less than manual steering
- B. Equal to manual steering
- C. 20% less than manual steering ☒
- D. 10% more than manual steering

Q4 **INCORRECT** What is the range of steering ratio available in general?

- A. 8 : 2 to 22 : 2 ☐
- B. 11 : 2 to 22 : 2
- C. 11 : 1 to 24 : 1 ☒
- D. 10 : 1 to 18 : 1

Q5 **INCORRECT** What is the maximum air pressure supplied by the compressor in the air suspension system?

- A. 100 to 115 PSI
- B. 180 to 210 PSI ☐
- C. 120 to 125 PSI ☒
- D. 200 to 215 PSI

Q6 **INCORRECT** What is the aspect ratio in the tyre structure?

- A. Percentage ratio of tyre height to Rim width ☐
- B. Ratio between tyre height to tyre dia
- C. Percentage ratio of tyre height to tyre width ☒
- D. Ratio between tyre width to Rim width

Q7 **INCORRECT** 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

Q8 **CORRECT** Which part of tyre referred as 'Crown'?

A. Thread width

B. Rim width

C. Tyre width

D. Thread radius ☐

Q9 **CORRECT** 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

Q10 **INCORRECT** What does the no: 14PR denotes in the tyre specification 9? x 14 - 14PR?

A. Shoulder width ☐

B. Bead circle dia

C. Ply rating ☐

D. Tyre thickness

Q11 **CORRECT** How the tyre is specified?

- A. Shoulder width, Boad circle dia. Ply rating ☐
- B. Shoulder dia, Bead circle dia, Ply rating ☐
- C. Shoulder width, Tyre thickness ☐
- D. Ply rating, tyre inner circle dia, shoulder width ☐

Q12 **INCORRECT** Which type of wheel consist two separate discs are clamped together?

- A. Split wheel ☐
- B. Wire wheel ☐
- C. Disc wheel ☐
- D. Heavy vehicle ☐

Q13 **INCORRECT** Which advantage does not suit to wheel alignment?

- A. Minimise tyre wear ☐
- B. Reduce driver effort ☐
- C. Achieve self centering after turning ☐
- D. Achieve easy torque transmission ☐

Q14 **INCORRECT** Which part of electronic power steering revert back to manual steering in case of failure in power steering?

- A. Solenoid valve ☐
- B. Phase compensator ☐
- C. Fail safe relay ☐
- D. Current controller ☐

Q15 **INCORRECT** Which device in electronic power steering converts the steering torque input and its direction in to voltage signals?

A. Rotation sensor

B. Torque sensor ☒

C. Hall effect sensor

D. Temperature sensor ☐

Q16 **INCORRECT** What is the advantage of electronic power steering?

A. Compact in size

B. Energy being consumed only while steering ☒

C. Less occupation of space

D. Number of components are less ☐

Q17 **INCORRECT** Which steering system will provide assistance even when the engine is not running?

A. Integral power steering

B. Linkage power steering ☐

C. Electronic power steering ☒

D. Manual steering

Q18 **CORRECT** Which part of integral power steering reduce fluid pressure?

A. Torsion bar

B. Rotary valve

C. Unloading valve ☒

D. Flow control valve

Q19 **CORRECT** What is the role of recirculating balls in the integral power steering?

- A. Affect steering stability
- B. Prevent control in event of hydraulic failure
- C. Combine high mechanical efficiency with smooth operation ☒
- D. Provide hard steering

Q20 **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

Q21 **INCORRECT** Which is not the benefit of power steering?

- A. Effort less steering ☐
- B. Quick response
- C. Absolute control during driving
- D. Positive breaking system ☒

Q22 **INCORRECT** Which type of suspension spring can not transfer wheel guidance forces?

- A. Helical springs ☒
- B. Coil springs
- C. Leaf springs ☐
- D. Compression springs

Q23 **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

Q24 **INCORRECT** Which type of suspension spring made of fibre glass, laminated and bonded together by tough polyster resins?

A. Coil springs ☐

B. Multiple leaf springs

C. Monoleaf springs

D. Fiber composite springs ☐

Q25 **CORRECT** Which type of spring will have good load carrying capacity and do not have noise in the suspension system?

A. Monoleaf springs

B. Coil spring

C. Multiple - leaf spring ☐

D. Fibre composite springs

Q26 **INCORRECT** Which system provided between axles and chassis frame?

A. Braking system

B. Suspension system ☐

C. Steering system ☐

D. Cooling system

Q27 **CORRECT** 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 ☒

Q28 **INCORRECT** Why light weight cars use low steering ratio?

- A. To obtain low steering effect
- B. To obtain large steering effect ☒
- C. To obtain constant steering effect
- D. To obtain no steering effect ☐

Q29 **INCORRECT** Which angle helps in self centering of wheels after negotiating a turn?

- A. Castor angle ☐
- B. King pin inclination ☒
- C. Camber angle
- D. Included angle

Q30 **INCORRECT** 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

Q31 **INCORRECT** What is the advantage of using non reactive suspension arrangement on multi-axle vehicles?

A. Good braking efficiency in both rear wheels ☐

B. Better riding comfort ☐

C. Increased spring life

D. Prevention of ratting

Q32 **CORRECT** 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

Q33 **INCORRECT** Which part of coil spring allows angular movement of linkages?

A. Ball joint ☐

B. Stabiliser bar

C. Torsion bar

D. Lower control arm ☐

Q34 **INCORRECT** Which type of spring suspension responds quickly to road shocks? |

A. Compression spring

B. Coil spring ☐

C. Helical spring

D. Transverse spring ☐

Q35 **INCORRECT** Which type of shock absorber maintain vehicle ride at a pre - set level according to the load placed over the rear axle?

A. Gas pressurised shock absorber

B. Hydraulic shock absorber ☐

C. Automatic load adjustable shock absorber ☐

D. Mechanical shock absorber

Q36 **INCORRECT** What is the effect of weak suspension?

A. Directional instability of vehicle ☐

B. Carrying excessive payload of vehicle

C. Unequal weight distribution of weight ☐

D. Vibration damping is more effective

Q37 **INCORRECT** Which type of shock absorber is easy for replacement and handling?

A. Vane type

B. Piston type

C. Mechanical type ☐

D. Telescopic type ☐

Q38 **CORRECT** Which type of shock absorber absorbs shocks with the help of friction disc and spring?

A. Hydraulic type

B. Electrical type

C. Mechanical type ☐

D. Pneumatic type

Q39 **CORRECT** Which device in the air suspension system observe vibration of low amplitude and high frequency?

A. Shock absorber ☐

B. Suspension spring

C. Air bags in the system

D. Leaf spring

Q40 **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 ☐

Q41 **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

Q42 **CORRECT** What is the disadvantage of independent suspension system?

A. More maintainance cost ☐

B. Vibration damping is less effective

C. Shocks transmitted from one wheel to other

D. Spring weight is more

Q43 **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. Maintenance cost is less ☐

Q44 **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

Q45 **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. Absorb shocks and vibration

Q46 **INCORRECT** What is the use of compact spare tyres?

- A. Used for breakdown ☐
- B. Used for high altitude ☐
- C. Withstand heavy load
- D. Withstand high temperature

Q47 **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

Q48 **INCORRECT** What is the advantage of using run flat tyres?

A. Less cost and maintance

B. Eliminate need for spare tyre and jack ☐

C. Resist vibration

D. Provide equal distribution of load ☐

Q49 **INCORRECT** What will effect in case of over inflated tyres?

A. Tyre will wearout at centre ☐

B. Tyre will wear out at edges ☐

C. Tyre will crack at edges

D. Tyre will crack at centre

Q50 **INCORRECT** What is the purpose of beads and plies provided in the tyre?

A. Provide strength to tyre ☐

B. Provide grippness on the surface ☐

C. Prevent tyre slip

D. Resist vibration

Q51 **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

Q52 **INCORRECT** What is the purpose of spokes provided in the wheel?

A. Provide accurate rounds of rim ☐

B. Distribute pre load evenly

C. Provide directional stability of vehicle

D. Support the chassis frame of vehicle ☐

Q53 **CORRECT** Where the tyre pressure sensor secured in the wheel assembly?

A. Secured in the wheel hub

B. Secured in the tyre outer edges

C. Bolted to metal valve ☐

D. Bolted to the rim centre

Q54 **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%

Q55 **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

Q56 **INCORRECT** What is the disadvantage of excessive positive camber in the wheel alignment?

A. Tyre outer edge will wearout fast ☐

B. Tyre centre will wearout ☐

C. Tyre bleeding wire wear out

D. Tyre thread wear out

Q57 **INCORRECT** How to rectify the defect of noise in hydraulic steering?

A. Replace the with new fluid

B. Fill fluid to correct level and bleed the system ☐

C. Adjust the torsion bar linkage

D. Replace the flow control valve ☐

Q58 **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

Q59 **CORRECT** Why vibration damper are not used inside the helical spring?

A. Possibility of stuck in one position

B. Not economical

C. Fitting and removing time consuming ☒

D. No effect on load carrying capacity

Q60 **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 ☐

Q61 **INCORRECT** What will be the effect of negative scrub radius?

A. Wheel is caused to toe - out ☐

B. Wheel is kept in straight position

C. The tyre centre portion wear out

D. Wheel is caused to toe - in ☒

Q62 **INCORRECT** 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

Q63 **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

Q64 **INCORRECT** 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 ☐

Q65 **CORRECT** Which facor affecting suspension?

A. Damaged chassis frame

B. Wornout spring ☐

C. More shocks, uncomfortable riding

D. Abnormal tyre wear

Q66 **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

Q67 **INCORRECT** What is the reason of faster wear out of tyre edges?

- A. Under inflated tyre ☐
- B. Over inflated tyre ☐
- C. Un equal load distribution ☐
- D. Defective suspension system ☐

Q68 **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 ☐

Q69 **INCORRECT** 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 ☐

Q70 **INCORRECT** What will be the result of improper brake adjustment?

- A. Hard steering ☐
- B. Wheel wobbling ☐
- C. Steering wheel play ☐
- D. Vehicle pulling to one side ☐

Q71 **INCORRECT** What is the reason of steering wheel play excess?

A. Improper pre load defective steering ☐

B. Low oil level

C. Drop in pressure ☐

D. Wornout sealing rings

Q72 **INCORRECT** What is the cause of 'Wheel wobbling'?

A. Improper tyre pressure ☐

B. King pin wornout ☐

C. Drop in pressure

D. Wrong hose size

Q73 **INCORRECT** Why tyre wear found abnormal in the vehicle?

A. Loose wheel nut ☐

B. Improper linkage adjustment

C. Improper tol-in and tol - out ☐

D. Improper tyre pressure

Q74 **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 ☐

Q75 **INCORRECT** What causes 'Air suction' in pump of hydraulic power steering system?

A. Noise ☐

B. High fluid level ☐

C. Low pressure

D. Steering wheel play

Q76 **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

Q77 **CORRECT** Which principle is applicable for hydraulic brakes?

A. Pascal's law ☐

B. Boyle's law

C. Newton's law of motion

D. Hooke's law

Q78 **INCORRECT** Which device permits air to the air brake system?

A. Hand control valve

B. Spring brake actuator

C. System protection valve ☐

D. Brake valve ☐

Q79 **CORRECT** Which material is used for brake rotors and brake pads for aircraft and racing cars?

A. Sintered alloy

B. Carbon fiber reinforced carbon composite ☒

C. Asbestos

D. Copper, brass, steel

Q80 **CORRECT** What is the material constituent of semi metallic brake lining?

A. Carbon fiber

B. Aluminium oxide

C. Fine polished steel wool ☒

D. Carbon composite

Q81 **INCORRECT** What is the binding material used in organic brake lining?

A. Resin ☐

B. Mica

C. Asbestos ☐

D. Fibre glass

Q82 **INCORRECT** What is the permitted brake pedal travel in the hydraulic brake system?

A. 2 to 12 mm

B. 6 to 12 mm ☐

C. 7 to 12 mm ☒

D. 9 to 12 mm

Q83 **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 ☐

Q84 **INCORRECT** What is the purpose of brake proportioning valves in the braking system?

- A. Reduces brake pedal effort
- B. Increase braking efficiency ☐
- C. Provide balanced braking ☐
- D. Prevent front wheel lockup

Q85 **INCORRECT** 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 ☐

Q86 **INCORRECT** What is the brake pedal free play range permitted while adjusting?

- A. 4 mm to 8 mm
- B. 8 mm to 10 mm ☐
- C. 6 mm to 12 mm ☐
- D. 13 mm to 18 mm

Q87 **INCORRECT** What is the precautionary measures to be adapted while removing secondary piston to prevent damage

- A. Remove the circlip before ☐
- B. Remove the retaining spring before ☐
- C. Remove the stopper bolt before ☒
- D. Remove the return spring before ☐

Q88 **INCORRECT** What is the purpose of 'G' sensor

- A. Locking pressure inside wheel cylinder ☐
- B. Measuring deceleration rate of vehicle ☒
- C. Reduce pressure at wheel cylinder ☐
- D. Detect wheel lock up condition ☐

Q89 **INCORRECT** Which device detect the driven wheel spin through sensor?

- A. EBD ☐
- B. ECU ☒
- C. TCS ☐
- D. ELSD ☐

Q90 **INCORRECT** How the EBD (Electronic Brake Force Distribution) failure indicated to the driver?

- A. Peep sound in the cabin ☐
- B. Indication lamp the dash board ☐
- C. Glowing the parking lamp ☒
- D. Flickering the tail lamp ☐

Q91 **INCORRECT** What is the advantage of TCS/ELSD brake circuit of wheel?

A. Reduce the pressure at wheel cylinder

B. Reduce fluid pressure ☐

C. Automatic adjustment of engine torque to the grip rates ☐

D. Avoid wheel lockup by releasing pressure

Q92 **INCORRECT** What is the function of traction control system?

A. Prevent wheel spinning ☐

B. Release the pressure to expansion tank

C. Reduce the engine torque

D. Reduce steering effort ☐

Q93 **INCORRECT** What is the function of EBD (Electronic Brake - Force Distribution) in anti lock brake system?

A. It control the slip of the front wheel

B. It controls the slip of the rear wheel ☐

C. It increase brake pressure to the rear wheel

D. It improve directional stability of vehicle ☐