

Syllabus for Computer Based Test- II (द्वितीय चरण)

A. DRIVING THEORY—I		
1	Know your vehicle:	Simple introduction to automobile engines and their working
2	Vehicle control	
	Foot controls	Foot brake, accelerator, clutch-dipper (not in present models).
	Hand controls	Steering wheel, hand brake, horn, light, wipers, ignition, switch, starter, dipper and indicators.
	Other controls	Rear-view mirror (right and left side), instrument cluster, gauges, dials, windscreen—their purpose
3	Pre-driving checks	Before sitting on driver's seat and After sitting on driver's seat.
4	Beginning to drive	Precautions just before moving, While moving Bitting point, Moving, Steering control, Changing of gear, Stopping, Braking, Accelerator (gradual, sudden) Traffic sense, road sense, judgment, parking and positioning according to road users, Reversing.
5	Driving on the road	Anticipation, judgment and road positioning according to other road users.
6	Driving at inter-sections	Mirror Signal and Maneuver (MSM) and Position Speed and Look (PSL) Zone of vision:
7	Maneuvers	Merging and diverging maneuvers—turning maneuvers to left, right, about, 3-point turn, 5-point turn and U-turn, overtaking stationary vehicle, moving vehicle in left side and right side.
8	Reversing	Locating reverse gear in sitting position, speed control, steering in reverse gear, weaving the 'S' bend and common errors.
9	Parking	Parallel, angular, perpendicular, parking facing uphill, parking facing downhill, common errors.
10	Driver's responsibility on the road	Driving behavior, consideration for other road users, courtesy and cooperativeness, over-confidence, impatience and defensive driving Distance between cars while driving at Railway crossing
11	Priority for certain vehicles	Emergency vehicles Fire engines, and Ambulance.
B. TRAFFIC EDUCATION—I		
1	Driving regulations	Road use regulations made under section 118 of the Motor Vehicles Act, 1988
2	Hand signals	
3	Traffic signs	Schedule of Motor Vehicles Act, 1988

4	Hand signals of Traffic constables/Traffic warden.	
5	Introduction to automatic light signals.	
6	Introduction to road markings.	
7	Speed regulations on highways and city roads.	
8	Parking at objectionable places.	
9	Some important provisions of the Motor Vehicles Act, 1988—Sections 122, 123, 125, 126 and 128 of the Motor Vehicles Act, 1988.	Sub-rule (3) of Rule 15 of the Central Motor Vehicles Rules, 1989
10	Test of competence to drive	
C. LIGHT VEHICLES DRIVING PRACTICE		
1	Identification of various parts of the vehicles.	
2	Pre-driving checks	(i) Before seating on Driver's seat, and (ii) After seating on Driver's seat
3	Steering practice	—Push and pull method
4	Bitting point	
5	Moving and gear changing	
6	Stopping:	—Normal stopping —Emergency stopping.
7	Developing judgment and anticipation to drive on road.	
8	Reversing	—In straight —in S bends.
9	Turning about and parking.	
10	Licensing.	
D. VEHICLE MECHANISM AND REPAIRS		
1	Layout of vehicle	
2	Function of diesel and petrol engines	
3	Fuel system	Fuel lines —Fuel injection pump —Automiser —Airlock —Oil block.
4	Cooling system	—Purpose —Radiator —Water pump—Fan leaf/fan belt —Radiator water boiling—Rectification.
5	Lubrication system	—Purpose

		<ul style="list-style-type: none"> —Engine lubrication —Chassis lubrication —Oil grade numbers unitwise.\
6	Transmission system	<ul style="list-style-type: none"> (a) Clutch <ul style="list-style-type: none"> - Function - Slip - Rising - Linkages (b) Gearbox: <ul style="list-style-type: none"> —Function —Purpose —Parts (c) Propeller shaft: <ul style="list-style-type: none"> —Function / purpose —Yoke joint —C.J. bearing slip —"U" joint —Lubrication (d) Differential: <ul style="list-style-type: none"> —Purpose —Function/Noise.
7	Suspension system	<ul style="list-style-type: none"> —Purpose —Springs —Shackle, shackle pin bushes —Shock absorber and its bushes.
8	Steering system	<ul style="list-style-type: none"> -Purpose —Steering geometry —Steering linkages —Steering box
9	Brake system	<ul style="list-style-type: none"> —Purpose —Hydraulic brake and its know-how —Air assisted hydraulic brake and its know-how —Air brake and its know-how —Brake adjustment of the entire system.
10	Electrical system	<ul style="list-style-type: none"> —Battery and its condition —Dynamo/Alternator —Self motor—Starter motor regulators —Lights—Knowledge to read the charging rate in the Ampere meter.
11	Tyres	<ul style="list-style-type: none"> —Study of tyres —Maintenance —Effect of defective tyres and wheel alignment
12	Instruments cluster, dash board meters and their purposes and functions	