

THE NSSR ROAD SAFETY/SUPPORT PROGRAMME



Road Safety / Support is a mainline National Safety and Social Responsibility

MONTHLY
BULLETIN

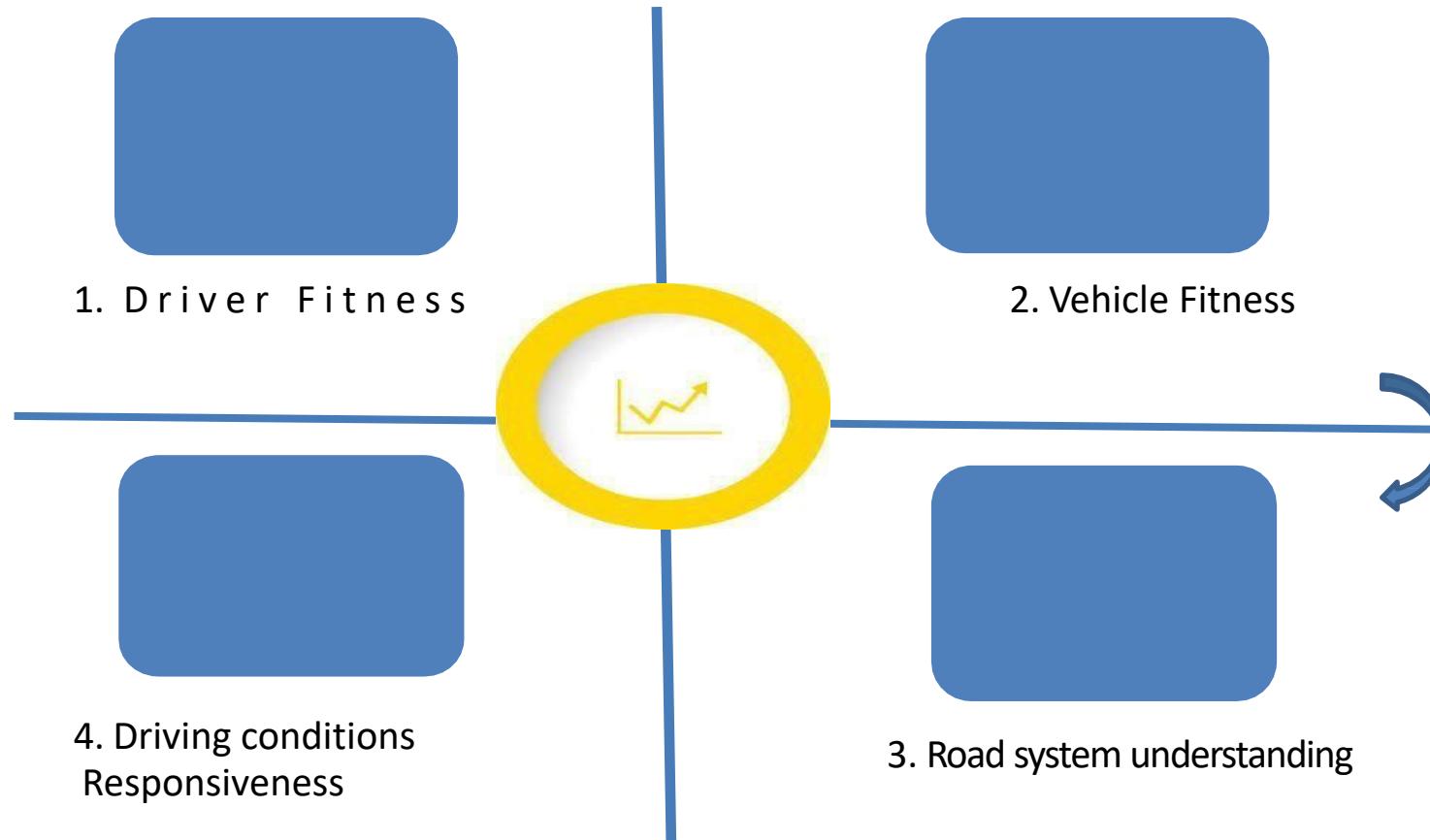
**DASHBOARDING ROAD SAFETY / SUPPORT
BY
VENKATRAM K S, AOEC 2026-2027**

January
2026

Dashboarding Road Safety/Support

- AOEC finds that safety while commuting on road, depends upon the automobile manufacturer's quality assurance, driver fitness, vehicle fitness, driving conditions dimensioning, and road system responsiveness, where driving conditions need us as commuters/road-system-infrastructure stakeholders to fine focus and design capability for improved road safety.

Driving conditions dimensioning
JOURNEY/TRIP
Route
Road Surface, Distance, Drive time, and Correlation for Responsiveness, Safety and Reliability



COMMUTING AND 5R(S)
Relate
Respond
Reduce Risk
Reciprocal Driving insights
TMS Resilience for route designed RADIUS and CIZ

CIZ : CRITICAL INTERACTION ZONE IN A JOURNEY/TRIP

Dashboarding Road Safety/Support

- AOEC finds that instrumentally, Dashboarding Road Safety / Support (DRSS) projects must
- define a TMS workflow for accentuating
- 1. Driver Fitness
- 2. Vehicle Fitness
- 3. Road system understanding
- 4. Alpha Assistance
- 5. 5R(s) SMART(ness) for a safer journey

CRITICAL
INTERACTION
DETERMINERS

ROAD SURFACE
COVERINGS,
LIGHT / SHADE
ISSUES,
CURVES,
MEANDERS,
INCLINES,
BOTTLENECKS,
CLOSE PROXIMITY
REGIONS

SMART(ness) :
SPECIFIC CRITICAL
INTERACTION FOR
MEETING NEED WITH
APPLICABLE INSIGHT
RESPONSE AND
TEMPERAMENT



CRITICAL
INTERACTIONS

EXPECTED LICENSE,
PROBABLE
INCIDENCE/HAZARD/
RISK/RULE
COMPLIANCE,
PRECISE DRIVING,
ENDURANCE
DRIVING,
INTERCEPTING
CURVES,
MANEUVERING
OPTIONS,
RESPONSE,
RAPID RESPONSE,
UNDERSTANDING
SERVICE ANYWHERE
ANYHOW
ASSISTANCE,
EMERGENCY
RESPONSE / SPECIFIC
NEEDS

Dashboarding Road Safety/Support

- DRSS SMART(ness) for a journey/trip and virtual POINT SLOPE INTERCEPTION can make it simpler to identify the tangible correlation between driving conditions dimensioning of a route/road system/road with a DRSS Workflow to help and improve safer commuting
- This DRSS Workflow plus NSSR RS programme teamwork can
- Record-or-review,
- Relate,
- Reduce risk,
- Reciprocate response and
- Design Resilience for any journey/trip and its dimensions like the
- road surface,
- distance,
- drive time,
- commute reliably factors, where there is universal or brand specific service centre-assessable part-lifetime mitigation, condition monitoring, traceable fault tolerance/preventive and corrective action, where this DRSS Workflow development can help a NSSR participant define/use a NSSR RS index for a journey/trip/TMS radius, where the index can be simply (1), (2), (3), (4) or combinations of them

The DSSR project recommends the use of different assistants to help commuters improve their experience

Dashboarding Road Safety/Support

- **(1) NRRS-I1:** where this workflow will need to address History of interaction & Foreseeable needs and 5R(s)
- **(2) NRRS- I2:** = this workflow will need to address Critical Interaction Zone needs and 5R(s)
- **(3) NRRS- I3:** this workflow will need to address Road/Route dynamics and 5R(s)
- **(4 NRRS- I4:** this workflow will need to address Advanced safetyneeds and 5R(s)
 - (like air quality, unregulated climate intolerance, temperature/humidity, road system or road or terrain safety, with more than an expected driving style for commuting with safety, reliability & timing and with more than programmed gear changes, or braking or drive distribution between the front and rear wheels as expected in 4WD modes)
 - The bulletin looks at the different assistants that can help a commuter's 5R(s). The editions that follow will delve into details of each of them to help a commuter/stakeholder ramp up scores in a dashboard

Dashboarding Road Safety/Support

- The DRSS Data Analysis Channel Building for an **automobile manufacturer's quality assurance, driver fitness, vehicle fitness, driving conditions dimensioning, and road system responsiveness** for deteriorating or changing driving conditions dimensioning of the needed SMART(ness for safer commuting will need to
- **1. Improve Sensitization and Awareness for Road Safety**
- **2. Develop issue/feedback/data channelization for safer commuting**
- **3. Provide handbooks/guides/planners for such planning/ incorporation**
- **4. Promote quality for road safety and infrastructure via NSSR guided methodologies like the training programmes/monthly bulletins & quizzes/dashboarding of experience or incidences**

DRSS Lifecycle and
NSSR RS Teamwork for
the DRSS Workflows

DRSS Data Analytics
and
Drive Performance
SMART(ness)

Accentuated
to enable
The Extra
Mile

Road safety and Accountability Dashboard for the Year 2026

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
- Traffic Engineering Assets planning YES / NO / NOT SATISFACTORY
- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
- Cost of Quality /Cost of Poor-Quality Project Assistance YES / NO / NOT SATISFACTORY
- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY

Year:



**STRATEGIC
PLANNING**



**TACTICAL
PLANNING**

**OPERATIONAL
PLANNING**

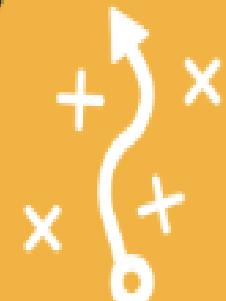


Road safety and Accountability Dashboard for the Year/Season 1

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
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STRATEGIC PLANNING



TACTICAL PLANNING



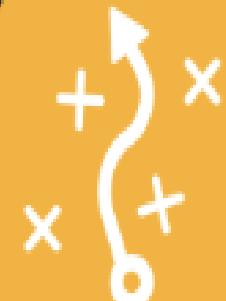
OPERATIONAL PLANNING

Road safety and Accountability Dashboard for the Year/Season 2

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
- Traffic Engineering Assets planning YES / NO / NOT SATISFACTORY
- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
- Cost of Quality /Cost of Poor-Quality Project Assistance YES / NO / NOT SATISFACTORY
- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY



STRATEGIC PLANNING



TACTICAL PLANNING



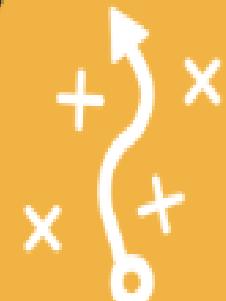
OPERATIONAL PLANNING

Road safety and Accountability Dashboard for the Year/Season 3

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
- Traffic Engineering Assets planning YES / NO / NOT SATISFACTORY
- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
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- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY



STRATEGIC PLANNING



TACTICAL PLANNING



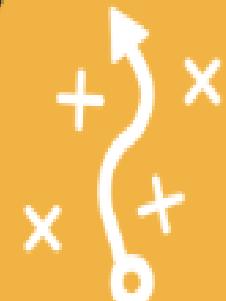
OPERATIONAL PLANNING

Road safety and Accountability Dashboard for the Year/Season 4

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
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- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
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- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY



STRATEGIC PLANNING

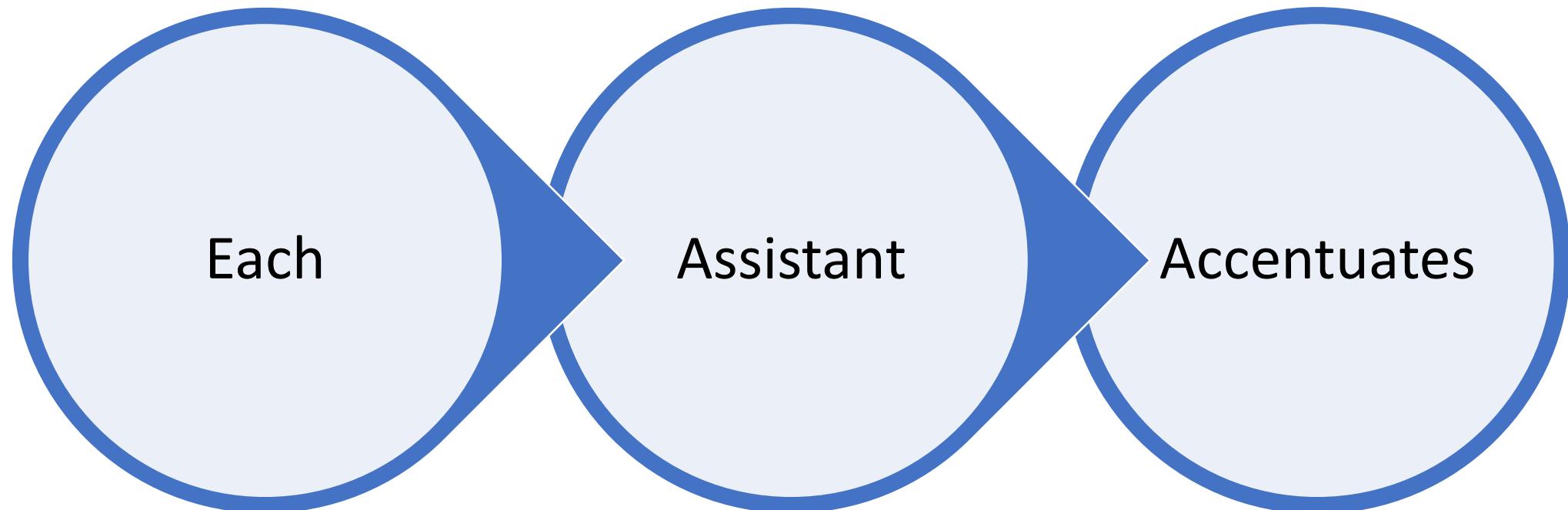


TACTICAL PLANNING



OPERATIONAL PLANNING

DRSS Assistants – Driver Fitness





DRIVER FITNESS

Driver Fitness while at the wheel

Contents

1. Self-acknowledgement of driver fitness
2. Continual undertaking for driving
3. Continual awareness of mandatory traffic signs
4. Continual awareness of cautionary traffic signs
5. Continual awareness of warning or hazard signs
6. Continual awareness of adherence to norms for fatigued/drowsy driving
7. Fitness report for a road system
8. Fitness ticket for a road system

DRIVER FITNESS NOTIFIER

The acknowledgement of driver fitness can be done via the race /journey organizing network.

What are the hazardous factors for the route/road system/road (where the applicability differs)?

There are many different factors such as

1. Sudden bends or curves where it is not possible to ensure clear visibility
2. Needing immediate repair roads/tracks with or without signs
3. Sudden vehicle/vehicles stopping with or without signs
4. Sudden crossings with or without signs
5. Sudden Speed regulators with or without signs
6. Sudden Medians or missing Barricades with or without signs
7. Unexpected road/track surface deterioration

DRIVER FITNESS NOTIFIER

What are the hazardous factors for route/road system/road (where the applicability differs)?

8. Poorly maintained septic systems

9. Driving guidelines or identified-rules-violators and lack of driving norms

10. Route/Road System/Road Hotspots

11. Lack of self-assessments of driver fitness with Route/Road System/Road guidance

12. Lack of feedback systems that alert or mitigate risks and hazards

13. Controlling of undue deviations in driving or undue colliding

14. Google Map inconsistencies for real world road system/route factors.

15. Google Map's limited awareness of road fitness or relevance for the journey/route and any in location codification etc.

DRIVER FITNESS NOTIFIER

Continual undertaking for driving (Tick as applicable)

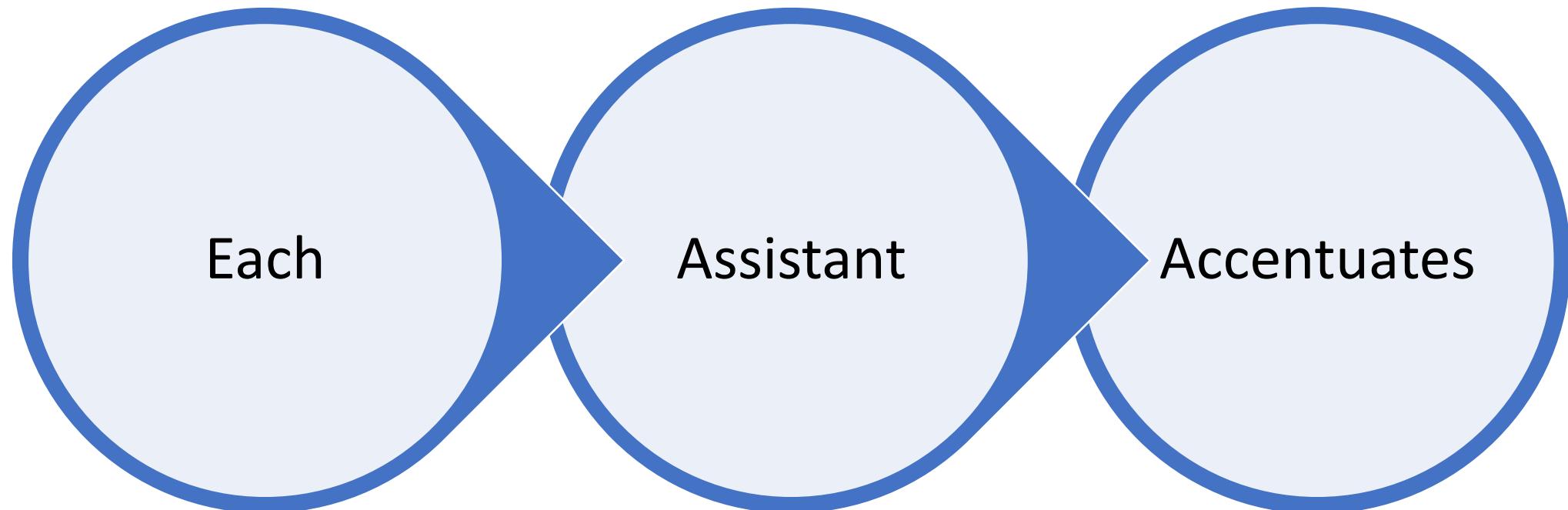
- I am not under the influence of alcohol & will not consume any while driving
- I am not under the influence of drugs & will not use any while driving
- I am as deemed physically fit to drive
- I am as deemed mentally fit to drive
- I will adhere to the rule of fastening seatbelts
- I will adhere to the rule of wearing protective headgear (driver & co-driver)
- I am driving a vehicle of permissible weight (as mentioned in the license/cleared to race assessment)
- I am aware and will comply with the duty of the driver to stop or remain stationery (when required to do so by a RTO/police officer in uniform, an alarmed driver/co-driver or unmanageable vehicle, or when there is an accident)
- I am aware and will comply with the duty of the driver in case of an accident and injury to a person/person(s) (exceptions only as mentioned in the rules and regulations for a driver by the RTO/transport authorities)

DRIVER FITNESS NOTIFIER

Continual awareness of warning signs (Tick as applicable)

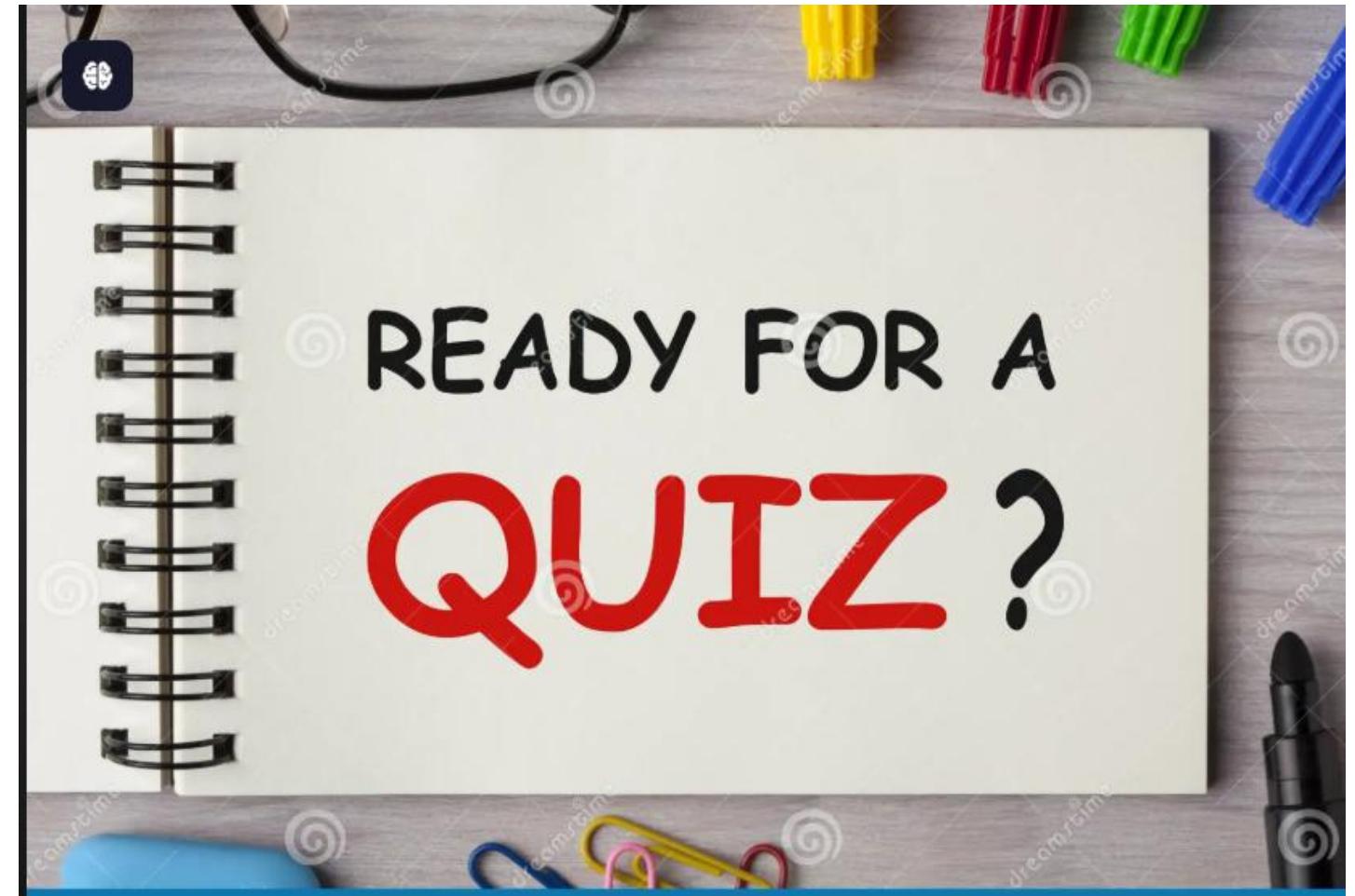
- Yawning
- Inability to keep eyes open
- Talking incoherently or inability to respond to questions from assisting team co-drivers
- “Nodding off” and trouble keeping your head up
- Inability to remember driving the last few laps
- Ending up too close to nearby cars
- Missing route/road system/road signs or guided turns
- Drifting into other lanes or onto rumble strips

DRSS Assistants – Driver Fitness



Quiz

DRSS
Assistants –
Driver
Fitness



DRSS Assistants – Driver Fitness

Q1: Accidents are mainly due		Response
1. Driver Negligence	<input type="checkbox"/>	1
2. Lack of driving norms	<input type="checkbox"/>	2
3. Lack of awareness of road system	<input type="checkbox"/>	3
4. Lack of awareness of hazardous condition of the road system	<input type="checkbox"/>	4
5. Due to being unfit to drive	<input type="checkbox"/>	5
6. Lack of any knowledge pool for self-awareness of traffic signs/norms	<input type="checkbox"/>	6
Score:	<input type="checkbox"/>	All of the above

DRSS Assistants – Driver Fitness

Q2: Driver Negligence is		Response
1. Not having a valid driver license	<input type="checkbox"/>	1
2. Careless or sudden lane changes	<input type="checkbox"/>	2
3. Driving when drowsy or fatigued	<input type="checkbox"/>	3
4. Driving when under the influence of alcohol or drugs	<input type="checkbox"/>	4
5. Being distracted due to visuals or sudden medical condition	<input type="checkbox"/>	5
6. Careless driving amidst road works/repairs/deterioration	<input type="checkbox"/>	6
Score:	<input type="checkbox"/> All of the above	

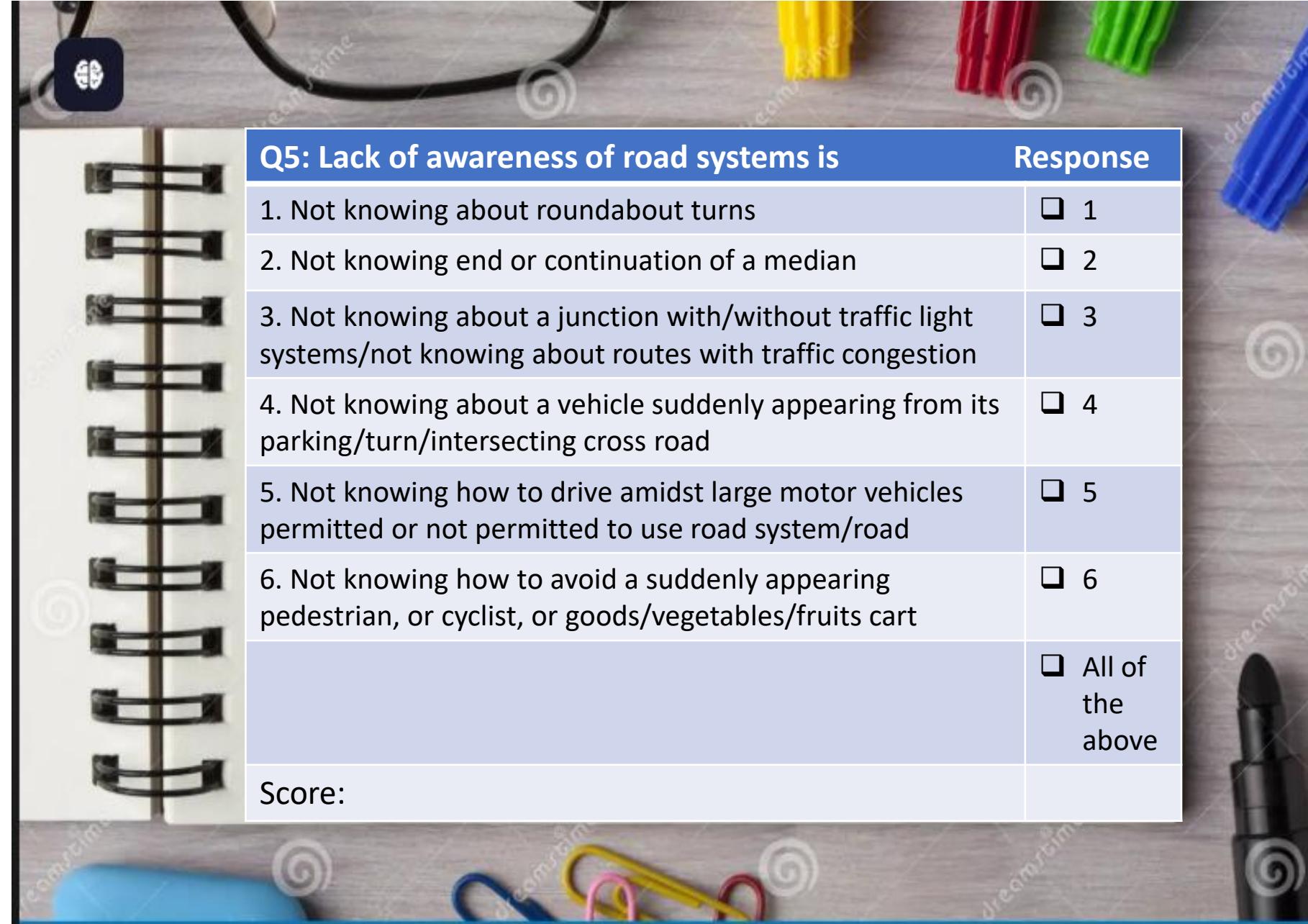
DRSS Assistants – Driver Fitness

Q3: Lack of driving norms is		Response
1. Not wearing the seat belt/ helmet	<input type="checkbox"/>	1
2. Sudden lane changes	<input type="checkbox"/>	2
3. Sudden speeding	<input type="checkbox"/>	3
4. Not putting a warning sticker on the windshield for having a baby on board, for driving around debilitated/differently able passengers or when with a medical condition	<input type="checkbox"/>	4
5. Due to a sudden medical condition	<input type="checkbox"/>	5
6. Lack of awareness of driving at night or in foggy conditions	<input type="checkbox"/>	6
All of the above	<input type="checkbox"/>	
Score:		

DRSS Assistants – Driver Fitness

Q4: Lack of self-awareness of		Response
1. Giving way for overtaking vehicles		<input type="checkbox"/> 1
2. Giving way for avoiding collisions		<input type="checkbox"/> 2
3. Managing driving norm violations of other vehicles/drivers		<input type="checkbox"/> 3
4. Knowing how to help a baby on board, or how to help a debilitated/differently able passengers or how to respond for a sudden change in weather		<input type="checkbox"/> 4
5. Knowing how to manage a sudden medical condition		<input type="checkbox"/> 5
6. Lack of awareness of handling vehicle fires/nearly overturning/sliding backwards in ascent/slipping or skidding in descent		<input type="checkbox"/> 6
Score:		<input type="checkbox"/> All of the above

DRSS Assistants – Driver Fitness



Q5: Lack of awareness of road systems is

Response
<input type="checkbox"/> 1
<input type="checkbox"/> 2
<input type="checkbox"/> 3
<input type="checkbox"/> 4
<input type="checkbox"/> 5
<input type="checkbox"/> 6
<input type="checkbox"/> All of the above
Score:

1. Not knowing about roundabout turns

2. Not knowing end or continuation of a median

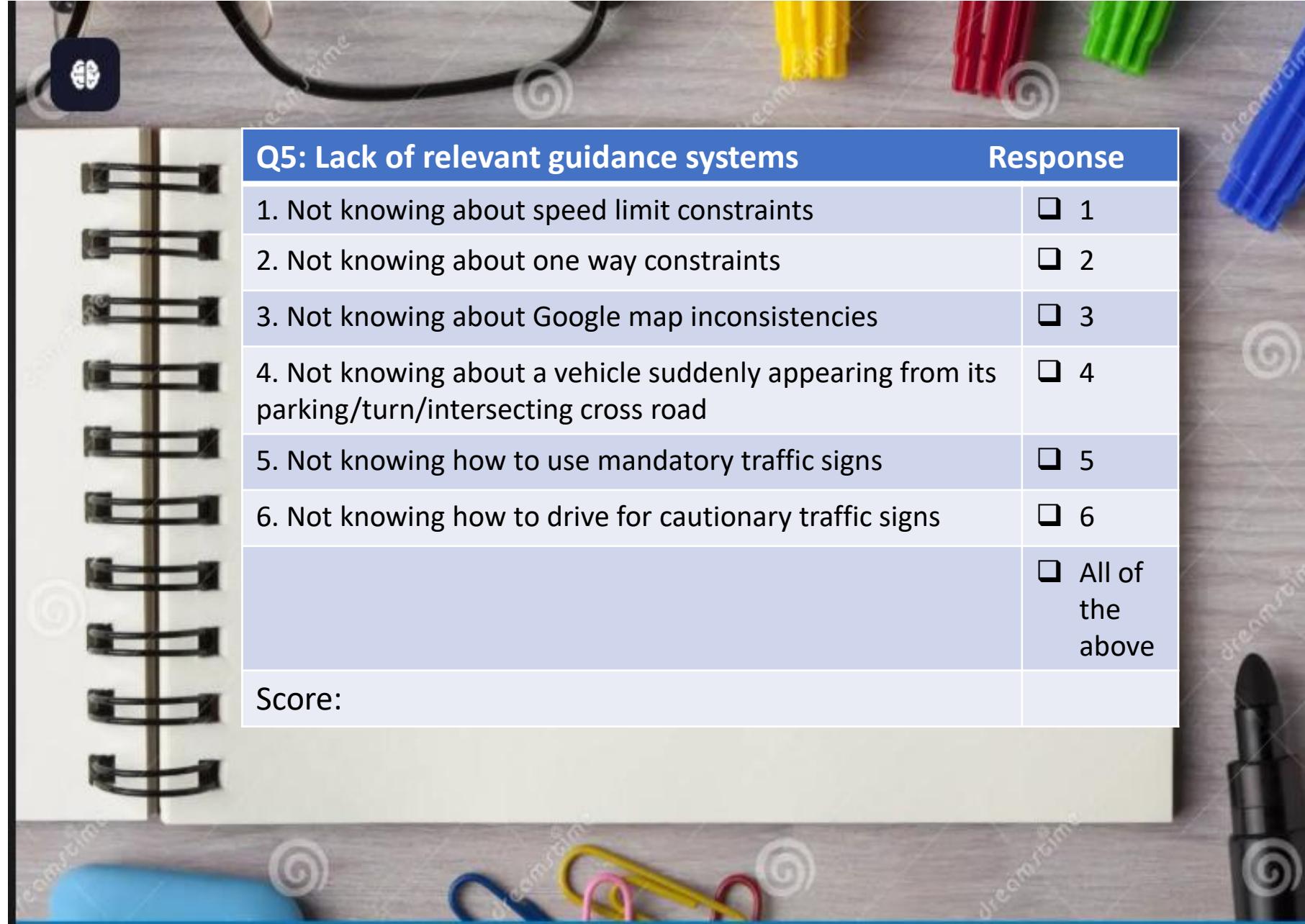
3. Not knowing about a junction with/without traffic light systems/not knowing about routes with traffic congestion

4. Not knowing about a vehicle suddenly appearing from its parking/turn/intersecting cross road

5. Not knowing how to drive amidst large motor vehicles permitted or not permitted to use road system/road

6. Not knowing how to avoid a suddenly appearing pedestrian, or cyclist, or goods/vegetables/fruits cart

DRSS Assistants – Driver Fitness



Q5: Lack of relevant guidance systems		Response
1. Not knowing about speed limit constraints	<input type="checkbox"/>	1
2. Not knowing about one way constraints	<input type="checkbox"/>	2
3. Not knowing about Google map inconsistencies	<input type="checkbox"/>	3
4. Not knowing about a vehicle suddenly appearing from its parking/turn/intersecting cross road	<input type="checkbox"/>	4
5. Not knowing how to use mandatory traffic signs	<input type="checkbox"/>	5
6. Not knowing how to drive for cautionary traffic signs	<input type="checkbox"/>	6
	<input type="checkbox"/>	All of the above
Score:		

Mandatory traffic signs



STOP



GIVE WAY



ONE WAY



NO ENTRY



ONE WAY



NO WAY
BOTH DIRECTION



RIGHT TURN
PROHIBITED



LEFT TURN
PROHIBITED



U-TURN
PROHIBITED



OVER TAKING
PROHIBITED



HORNS
PROHIBITED



SPEED
LIMIT



COMPULSORY
TURN LEFT



COMPULSORY
AHEAD ONLY



COMPULSORY
TURN RIGHT AHEAD



COMPULSORY AHEAD
OR TURN RIGHT



COMPULSORY AHEAD
OR TURN LEFT



COMPULSORY
KEEP LEFT

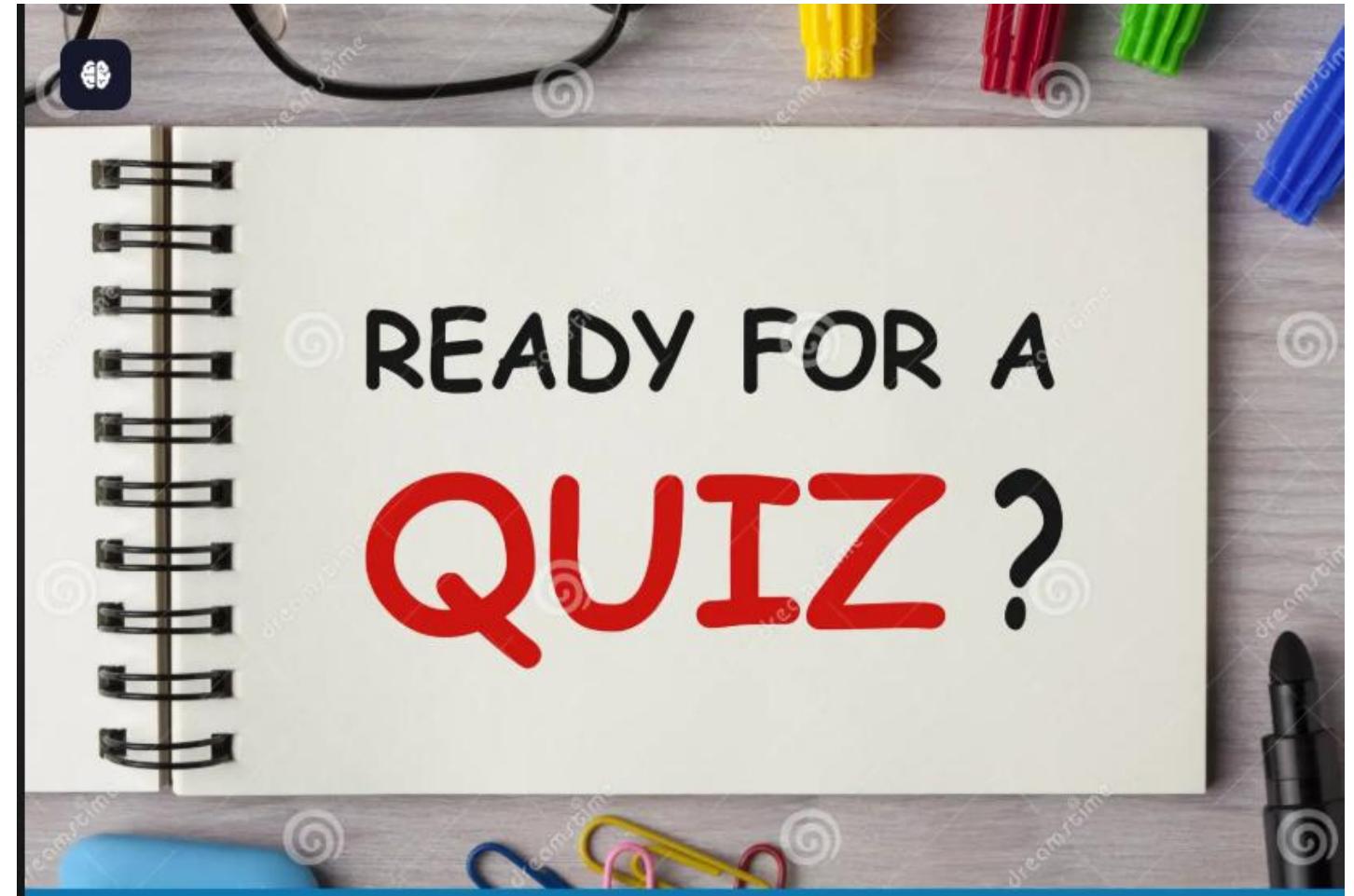


COMPULSORY
SOUND HORN

Cautionary traffic signs

				
Right Hand Curve	Left Hand Curve	Right Hair Pin Bend	Left Hair Pin Bend	Right Reverse Bend
				
Left Reverse Bend	Steep Ascent	Steep Descent	Narrow Road Ahead	Road Wideness Ahead
				
Narrow Bridge	Slippery Road	Loose Gravel	Cycle Crossing	Pedestrian Crossing
				
School Ahead	Men at Work	Cattle	Falling Rocks	Ferry

DRSS
Assistants –
Driver
Fitness



Google form URL: