

OUSSSC Driver PMT & Firefighting Driver Special Paper 2026

FREE DEMO

10 Important Questions from 10 Full Mock Tests

Special Paper C (Driver PMT & Firefighting Driver) – with Full Solutions

MOCK TEST DETAILS	
Paper	Special Paper C – Driver PMT & Firefighting Driver
Total Mock Tests	10 Full Mock Tests
Mock Level	Easy – 4 · Moderate – 4 · Hard – 2
Questions per Test	50 MCQ – Vehicle & Maintenance 25, Traffic Signal, Road Safety & Rules 25
Marks & Time	50 marks · 60 minutes · –0.25 per wrong answer
Total Questions	500 questions, each with full explanation
Language	Odia + English
Available in App	Mock Test (Exam) + Quiz – Tech Of World App

MOCK LEVEL BREAK-UP

4 Easy Mock Tests	4 Moderate Mock Tests	2 Hard Mock Tests	10 Total
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This demo: 10 questions – Easy 7 · Moderate 3 – with full solutions

10 IMPORTANT MOCK TEST QUESTIONS – FREE DEMO

Hand-picked from 7 of the 10 Special Paper C Full Mock Tests (Easy & Moderate) – Vehicle Knowledge & Maintenance and Traffic Signals, Road Safety & Rules – with the same solutions you get in the full pack.

Q-1 How is the fuel ignited in a diesel engine?

ଡିଜେଲ୍ ଇଞ୍ଜିନରେ ଇନ୍ଦନ କିପରି ପ୍ରଜ୍ୱଳିତ ହୁଏ ?

- (A) By a spark from the spark plug
- (B) By a glowing exhaust valve
- (C) By the heat of the silencer
- (D) By the heat of highly compressed air

ANS- (D) By the heat of highly compressed air

Explanation: A diesel engine has no spark plug. It draws in only air and compresses it very strongly, with a compression ratio (volume squeeze) of about 15:1 to 22:1. This squeezing heats the air to roughly 500-800 °C. Near the end of compression, the injector sprays fine diesel into this hot air, and the fuel catches fire on its own. This method is called compression ignition.

Key Points:

- ✦ *Fuel pump:* Sends diesel at very high pressure
- ✦ *Glow plug:* Warms the cylinder for cold-weather starting
- ✦ *Inventor:* Rudolf Diesel filed his engine patent in 1892

Other Options:

(A) Spark from the spark plug — A spark plug gives an electric spark and is fitted in **petrol engines** to light the air-fuel mixture.

(B) Glowing exhaust valve — The exhaust valve opens to let burnt gases leave the cylinder during the **exhaust** stroke.

(C) Heat of the silencer — The silencer (muffler) is fitted at the end of the exhaust pipe to **reduce engine noise**.

Q-2 What is the main function of a shock absorber?

ଶକ୍ ଅବଜର୍ବର୍ (shock absorber)ର ମୁଖ୍ୟ କାର୍ଯ୍ୟ କ'ଣ ?

- (A) To damp the up-and-down movement of the springs
- (B) To transmit power to the wheels
- (C) To stop the vehicle quickly
- (D) To cool the engine

ANS- (A) To damp the up-and-down movement of the springs

Explanation: When a wheel hits a bump, the spring squeezes and then bounces back again and again. A shock absorber (damper) is fitted between the axle and the

body to stop this bouncing. It is an oil-filled cylinder in which a piston pushes oil through tiny holes. This changes the spring movement into heat, so the bounce dies out quickly. Tyres stay in contact with the road, giving better grip, steering and braking.

Key Points:

- ✦ *Types:* **Telescopic oil type and gas-filled type**
- ✦ *Weak damper:* **Car keeps bouncing and oil leaks on the body**
- ✦ *Load:* **It does not carry the weight; the spring does**

Other Options:

(B) To transmit power to the wheels — The **propeller shaft** and axle shafts carry engine power through the gearbox and differential to the wheels.

(C) To stop the vehicle quickly — The **brake system** stops the vehicle by pressing friction pads or shoes on discs or drums.

(D) To cool the engine — The **water pump** circulates coolant between the engine and the radiator to remove extra heat.

Q-3 What does this sign mean?

ଏହି ଚିହ୍ନର ଅର୍ଥ କ'ଣ ?



- (A) No entry
- (B) One way
- (C) Hospital ahead
- (D) Give way

ANS- (A) No entry

Explanation: The sign shows a **red circle with a white horizontal bar** across the middle. This is the **No Entry** sign. It is placed where vehicles may not enter from that side, such as the exit of a one-way road. It is a regulatory (mandatory) sign under IRC:67.

Key Points:

- ✦ *Colours:* **Red background with a white bar**
- ✦ *Placement:* **Fixed facing traffic that could enter the wrong way**

♦ *Meaning of circle:* **Round signs give orders to the driver**

Other Options:

(B) One way — The One Way sign shows a white arrow pointing in the only direction in which traffic may move.

(C) Hospital ahead — A hospital is shown by a **blue** rectangular informative sign placed on the road near it.

(D) Give way — The Give Way sign is an **inverted triangle** with a red border, asking the driver to let main road traffic pass first.

Q-4 What does this sign mean?

ଏହି ଚିହ୍ନର ଅର୍ଥ କ'ଣ ?



- (A) Maximum speed limit is 50 km/h
- (B) Minimum speed limit is 50 km/h
- (C) Next junction is 50 m ahead
- (D) Road width ahead is 50 m

ANS- (A) Maximum speed limit is 50 km/h

Explanation: The sign is a **circle with a red border and a white centre**, with the number 50 in black. It is the **Speed Limit** sign, and it means the maximum speed allowed on that stretch is **50 km/h**. The driver must not go faster than the number shown. It is a regulatory sign under IRC:67, and the limit applies until another speed sign is seen.

Key Points:

- ♦ *Unit:* **The number is always in kilometres per hour**
- ♦ *Safety:* **Higher speed gives longer braking distance**
- ♦ *Enforcement:* **Speed cameras and radar guns check the limit**

Other Options:

(B) Minimum speed limit is 50 km/h — A minimum-speed sign is a **blue circle** with a white number, used on fast roads.

(C) Next junction is 50 m ahead — Distances ahead are given on plates fixed below warning signs, written in metres.

(D) Road width ahead is 50 m — A width limit is shown on a separate regulatory sign giving the vehicle width in metres.

Q-5 With which foot is the clutch pedal operated?

କ୍ଲଚ୍ ପେଡାଲ୍ (clutch pedal) କେଉଁ ପାଦରେ ଚଳାଯାଏ ?

- (A) Right foot
- (B) Left foot
- (C) Either foot
- (D) Both feet together

ANS- (B) Left foot

Explanation: A manual car has three pedals. The clutch pedal is pressed with the left foot. Pressing it separates the engine from the gearbox for a moment, so the driver can change gears smoothly or stop without stalling the engine. Releasing it slowly lets the clutch plate grip the flywheel again and power flows to the wheels.

Pedal position	Pedal	Foot
Left	Clutch	Left
Middle	Brake	Right
Right	Accelerator	Right

Key Points:

- ✦ *Clutch riding:* Resting the foot on the pedal wears the clutch plate quickly
- ✦ *Free play:* A small free movement at the top of the pedal is needed
- ✦ *Release bearing:* Holding the pedal down for long wears this bearing

Other Options:

(A) Right foot — The right foot works the **accelerator** and the **brake**, moving between these two pedals.

(C) Either foot — Many automatic cars have only two pedals, and the right foot handles both the **brake** and the **accelerator**.

(D) Both feet together — In an emergency stop in a manual car, the right foot presses the **brake** and the left foot presses the **clutch**.

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Q-6 What does this sign mean?

ଏହି ଚିହ୍ନର ଅର୍ଥ କ'ଣ ?



- (A) Pedestrian crossing ahead
- (B) School ahead
- (C) Footpath for pedestrians
- (D) Pedestrians prohibited

ANS- (D) Pedestrians prohibited

Explanation: The sign shows a black walking person inside a red-ringed white circle, with a red diagonal bar across it. It is a prohibitory sign, and it means pedestrians are not allowed on this stretch of road. It is used on fast roads where walking is unsafe. Walkers must use a footpath or another route.

Key Points:

- ◆ **Red bar:** The slanting bar bans what the symbol shows
- ◆ **Same family:** Right turn prohibited and horn prohibited signs
- ◆ **Drivers:** Still watch for people near the road edge

Other Options:

(A) Pedestrian crossing ahead — This warning sign is a red-bordered triangle with a walking figure on a zebra crossing.

(B) School ahead — This warning sign is a red-bordered triangle showing two children, and it asks drivers to slow down near a school.

(C) Footpath for pedestrians — This blue compulsory sign shows a white walking person and sets aside a path only for people on foot.

Q-7 What is the main job of the exhaust manifold?

ଏକ୍ସହାସ୍ଟ ମ୍ୟାନିଫୋଲ୍ଡ (exhaust manifold)ର ମୁଖ୍ୟ କାର୍ଯ୍ୟ କ'ଣ ?

- (A) To supply air to the cylinders
- (B) To mix fuel with air
- (C) To store the burnt gases
- (D) To collect the exhaust gases from the cylinders and lead them into the exhaust pipe

ANS- (D) To collect the exhaust gases from the cylinders and lead them into the exhaust pipe

Explanation: The exhaust manifold is bolted to the side of the cylinder head. It has separate branches, one from the exhaust port of each cylinder, and these join into a single outlet. This outlet is connected to the exhaust pipe. Burnt gases leave each cylinder at high temperature, so the manifold is made of strong heat-resistant metal. The gases then flow on through the rest of the exhaust system and leave at the rear of the vehicle.

Key Points:

- ✦ **Material:** Cast iron or stainless steel
- ✦ **Gasket:** A metal gasket seals the joint with the head
- ✦ **After it:** Catalytic converter, silencer and then tail pipe

Other Options:

(A) To supply air to the cylinders — The inlet (intake) manifold carries fresh air or the air-fuel mixture to the cylinders.

(B) To mix fuel with air — A carburettor mixes fuel with air in older petrol engines, while modern engines use fuel injectors.

(C) To store the burnt gases — The tail pipe at the rear of the vehicle releases the burnt gases into the open air.

Q-8 What does this sign mean?

ଏହି ଚିହ୍ନର ଅର୍ଥ କ'ଣ ?



- (A) Truck parking
- (B) Truck prohibited
- (C) Heavy vehicles must keep left
- (D) Loading and unloading area

ANS- (B) Truck prohibited

Explanation: This is a prohibitory sign (it forbids an action). It is a circle with a thick red ring and a black goods truck, crossed by a red diagonal bar. It is the Truck Prohibited sign of IRC:67. It is placed where goods vehicles are not allowed, such as a city centre street or a weak bridge, so trucks must take another route.

Key Points:

- ✦ *Sign group:* **Red-ring circles are regulatory signs**
- ✦ *Legal duty:* **Section 119 of the MV Act requires drivers to follow them**
- ✦ *Diagonal bar:* **A red slanting bar bans the action shown**

Other Options:

(A) Truck parking — A **blue rectangular** informative board with the letter P and a truck symbol marks a place where trucks may park.

(C) Heavy vehicles must keep left — A **blue circle** with a white arrow is a compulsory sign that orders drivers to follow the direction shown.

(D) Loading and unloading area — A blue board with a white symbol marks a zone where goods vehicles may stop to load or unload.

Q-9 What does this sign mean?

ଏହି ଚିହ୍ନର ଅର୍ଥ କ'ଣ ?



- (A) Cycles prohibited
- (B) Compulsory cycle track
- (C) Cycle parking
- (D) Cycle crossing ahead

ANS- (B) Compulsory cycle track

Explanation: This sign is a blue circle with a white cycle (bicycle) in the middle. In IRC:67 (the Indian sign code), a blue circle is a mandatory sign, which gives an order to follow. This one means a compulsory cycle track: the lane is meant only for cycles. Other vehicles use the normal carriageway (the main road for motor traffic), so cyclists stay away from fast vehicles.

Key Points:

- ✦ *Shape:* **Circle means a mandatory or regulatory sign**
- ✦ *Colour:* **Blue background with white symbol means a compulsory action**
- ✦ *Purpose:* **Keeps slow cycles apart from motor traffic**

Other Options:

(A) Cycles prohibited — This sign is a red-bordered white circle with a black cycle

and a red diagonal bar.

(C) Cycle parking — A cycle parking area is a marked place, often near stations and markets, where bicycles are left safely.

(D) Cycle crossing ahead — This is a red-bordered warning triangle with a black cycle, and it tells drivers to expect cyclists crossing the road.

Q-10 What does the octane number of petrol indicate?

ଘେଡ଼ାଇଲର ଅକ୍ଟେନ୍ ନମ୍ବର (octane number) କ'ଣ ସୂଚାଏ ?

- (A) Its colour
- (B) Its resistance to knocking (detonation)
- (C) Its price
- (D) Its weight per litre

ANS- (B) Its resistance to knocking (detonation)

Explanation: The octane number of petrol shows how well the fuel resists knocking (also called detonation). Knocking is the sharp metallic pinging sound heard when part of the mixture burns by itself before the flame reaches it. A higher octane number means the petrol can be squeezed more before it burns by itself. High-compression engines need high-octane petrol. The scale is set by comparing the fuel with iso-octane, which is given the value 100.

Key Points:

- ✦ *Normal petrol:* **Roughly 91 RON**
- ✦ *Premium petrol:* **Roughly 95 to 98 RON**
- ✦ *Diesel:* **Its ignition quality is shown by cetane number**
- **Memory Hook:** Octane = Anti-knock.

Other Options:

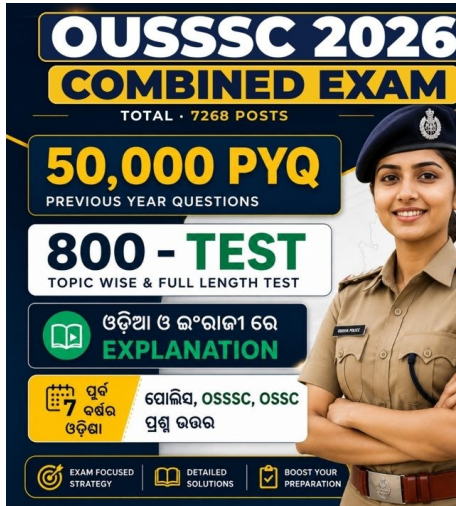
(A) Its colour — Dyes may be added to fuels, and the colour helps people tell one fuel type from another.

(C) Its price — The price of petrol is fixed by oil companies according to crude oil cost, taxes and dealer margin.

(D) Its weight per litre — The weight of a litre of fuel is known as its density, and it is measured with a hydrometer.

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