Sample Question Paper- Automobile Mechanic Level 4

Instruction

There are 16 multiple choice questions & essay type questions which cover all 16 modules included for NVQ Level 4 qualification.

But, the common question paper contains 25 multiple choice questions (1.5 marks for each question) & several essay type questions (62.5 marks) which covers all 16 modules of NVQ Level 4 qualification.

Multiple Choice Questions

Underline most suitable answer.

- 1) Which is the advantage of using coolant than water?
 - i. Able to identify when leaking.
 - ii. Avoid rusting
 - iii. Avoid evaporation
 - iv. Above all
- 2) What is the suitable lubrication oil to be use for very new petrol engine?
 - i. SAE 40
 - ii. SAE 30
 - iii. DS 30
 - iv. DS 40
- 3) What is the purpose of needle valve & floater in a carburetor?
 - i. Control the speed of fuel flow.
 - ii. Give required fuel for high speed.
 - iii. Control fuel limit when engine is cold.
 - iv. Control the flow of fuel into floating chamber.

- 4) What is the correct fuel injection position in diesel engine?
 - i. When suction stroke in bottom dead center.
 - ii. When compression stroke in top dead center.
 - iii. When compression stroke in before top dead center.
 - iv. When power stroke in after top dead center.
- 5) How wire winding in ignition coil?
 - i. Primary winding in thin wire with many rounds.
 - ii. Secondary winding in thick wire with fewer rounds.
 - iii. Primary winding in thick wire with fewer rounds.
 - iv. Secondary winding in thick wire with many rounds.
- 6) Correct way of fixing the bolts in cylinder head?
 - i. From center to sideways.
 - ii. From sideways to center.
 - iii. Spirally
 - iv. As per the workshop manual.
- 7) Brass cone in a gear box?
 - i. Temporary separate engine & gear box.
 - ii. Equal the speed between gear wheel & sliding sleeve.
 - iii. Minimize the space between gear wheel & sliding sleeve.
 - iv. Stop the disengage of gear wheel & sliding sleeve.
- 8) What are the factors affected to change the gear in Automatic gear box?
 - i. Engine load & vehicle load.
 - ii. Engine speed & vehicle load.
 - iii. Engine load & vehicle speed.
 - iv. Vehicle load & vehicle speed.

	i.	500						
	ii.	1000						
	iii.	1500						
	iv.	2000						
10)	10) How operates brake booster in brake system?							
	i.	Hydraulic presser.						
	ii.	Air presser						
	iii.	Air vacuum.						
	iv.	Not from all.						
11) What type of lubrication oil is used in manual steering box?								
	i.	SAE 140						
	ii.	SAE 40						
	iii.	SAE 50						
	iv.	SAE 30						
12)	If tyre pres	sure is high in a vehicle?						
	i.	Waste in both sides of tyre.						
	ii.	Waste of inner side line of tyre						
	iii.	Waste in the middle of tyre.						
	iv.	Waste in outside line of tyre.						
13)	13) The standard position of the front wheels of front wheel drive vehicle is?							
		i. Toe out						
		ii. Toe in						
		iii. Parallel						
		iv. Horizontal						

9) In a vehicle the rotated speed of crown wheel is 1000 revolutions per minute. If it's left wheel

the it's right wheel speed?

which is rotated with the live axle, rotates the speed of 1000 revolution per minutes. What is

15) What is the rail pressure of common rail diesel system?						
	i.	600 – 700 bar				
	ii.	900 – 1000 bar				
	iii.	1500 – 2400 bar				
	iv.	Above 2400 bar				
16) Which Senso	r doe	s not included in ABS system?				
	i.	Air Temperature Sensor				
	ii.	Water Temperature Sensor				
	iii.	Fuel Temperature Sensor				
	iv.	Above all				
Essay Questions.						
01.						
01.						
i. Name the pa	rts in	following ignition system.				
ii. What is Dwe	II Ang	el?				

14) What instrument use to measure battery specific gravity ?

i.

ii. iii.

iv.

Multimeter

Hydrometer

Dynamometer.

Ammeter

iii. W	hy ignition knock happens. Give reaso	ns?							
02. I.	Name the parts in following suspension	n system?							
ii How to toot condition of chook absorbor, evaloir briefly?									
ii. How to test condition of shock absorber, explain briefly?									
03.A. What is the formula use to find cylinder volume?									
B. A four stroke four cylinder engine speed is 2600rpm. Its bore diameter is 80mm. If its stroke is									
100mm, calculate engine capacity in (m³)?									
04. Which data obtain from following sensors and also give the electronic systems?									
Number	Sensor	Data obtained	Related Electronic						
			system						
01	Crank sensor	Ex. Give Engine RPM	Ex. EGR, EFI, Common						
			Rail						
02	Knock sensor								
03	Steering angle sensor								
04	Hall effect sensor								
05	Tyre air Pressure Sensor								

05. Stall test is done for Automatic gear box.

When this test done for an Automatic gear box?

i.

- ii. What are the safety procedures taken within this test?
- iii. List out the way of doing this test?

06.

- i. Draw valve timing diagram & name its stages?
- ii. What is the mean of 165/65 R/4 in a tyre?
 - iii. Write down chemical formula of led acid battery charging?