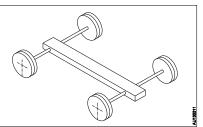
# Mechanic Diesel 1<sup>st</sup> Semester - Module 1 : Safety Workshop Practice

Que	estions: Level 1	8	Which type of personal protection
			recommended to handle loads with rough
1	Which is chemical Hazard?		surfaces and pointed projections?
A	Noise	Α	Paper gloves
В	Explosive	В	Rubber gloves
С	Vibration	С	Leather gloves
D	Radiation	D	Polythene gloves
2	Which type of occupational health hazards	9	Which is toxic in the automobile workshop?
	involves "Toxic"?	Α	Old bearings
Α	Physical hazard	В	Paper wrappers
В	Chemical hazard	С	Used lubricant
С	Biological hazard	D	Old washer, bolts and nuts
D	Mechanical hazard	10	Which is harmful to human health?
3	Which is the motive of occupatioual health	Α	Oxygen
	and safety?	В	Water vapour
Α	Decrease employee morale	С	Carbon di oxide
В	Decreasing the quality	D	Carbon mono oxide
С	Reducing absentism	11	Which gas is harmfull to human health?
D	Minimising productivity	Α	Nitrogen
4	What type of safety covers the wearing of	в	Water Vapour
	safety shoes in workshop?	С	Carbon-di-oxide
Α	General safety	D	Carbon- monoxide
в	Personal safety	12	What is the effect of air borne dust in
С	Machine safety		workshop?
D	Occupational safety	Α	Diarrhoea
5	Which is the occupational mechanical	в	Dehydration
	hazard?	С	Throat infection
Α	Sickness	D	Rise in blood pressure
в	Current leakage	13	Which device is used to remove toxic
С	Unguarded machinery		waste?
D	Wrong layout of machinery	Α	Water wash
6	Which is the Biological hazard?	В	Incinerators
Ă	Smoking	c	Compressed air
В	Sickness	D	Vacuum cleaner
С	Infection		
D	Poor discipline	14	What is the name of safety device?
7	Which fire extinguisher used for flamable		
•	liquid fires?		
Α	Halon extinguisher		
В	Dry powder extinguisher		
c	CTC extinguisher		
D	Water extinguisher		
		A	Goggle
		B	Hand gloves
		C	Hand screen
		D	Helmet screen

**15** Which distance is known as wheel base of the vehicle?



- A Centre to centre distance between front wheels
- B Centre to centre distance between rear wheels
- **C** Centre to centre distance between front and rear wheels
- **D** End to end distance between front and rear wheels

Questions: Level 2		9	How the waste oil is disposed?
		Α	Hand over back to the customer
1	Which part of body is bleeding profusely is	в	Throw the removed oil in the drain
	considered serious and need professional	С	Keep in small containers in remote corners
	attention?	D	Collect waste oil container and dispose to
Α	Leg of the human body		register vendors
в	Knee of the human body	10	Which type of energy to mimimize the waste
С	Wrist of the human body		without affecting production?
D	Thigh of the human body	Α	Utilization of energy
2	How to treat burns and scalds?	В	Modification of energy
A	Blow hot air to the burnt hand	С	Conservation of energy
В	Blow cool air to the burnt hand	D	Manipulation of energy
С	Covering with water	11	What type of energy reduce consumption by
D	Covered hot water to the burnt hand		replacing old bulb with new LED?
3	What is first aid?	Α	Utilization of energy
Ă	It is the emergency medical treatment	В	Modification of energy
В	It is an immediate life saving treatment	c	Manipulation of energy
C	It is the intensive medical treatment	D	Conservation of energy
D	It is the rule to assessing the treatment	12	Which is the major energy conservation
4	What will you do if an electric shock victim		opportunities?
	unable to release his grip from the	Α	Stopping of leakage
	conductor?	В	Replacement machineries
Α	Make sure the power is turned off	c	Replacement of house hold appliance
В	Cover all burns with a dry loose dressing	D	Laps in house keeping
С	Place the victim on one side with head down	13	Which type of energy conservation comes
D	Ask a by stander to help you to move the		under the replacement of old machineries?
	victim	Α	Minor energy conservation opportunities
5	Which class of fire involes liquified gases?	В	Major energy conservation opportunities
Α	Class A	С	Medium energy conservation opportunities
в	Class B	D	Very minor energy conservation
С	Class C		opportunities
D	Class D	14	Which type of energy conservation
6	Which fire extinguisher sutiable for class "C"		opportunity involves stopping of water
	fire?		leakage points?
Α	Foam filled extinguisher	Α	Minor energy conservation opportunities
В	Water filled extinguisher	в	Major energy conservation opportunities
C	Dry powder fire extinguisher	С	Medium energy conservation opportunities
<u>D</u>	Carbon-di-oxide fire extinguisher	D	Extra major energy conservation
7	Which factor isolate the fire from oxygen by		opportunities
۸	blanketing?	15	Which is medium energy conservation
A B	Cooling starving		opportunities?
C	Misfiring	Α	House keeping
D	Smothering	в	Stoping of water leakage
8	Which class of fire involves wood?	С	Renovation of the old building
Α	Class 'A' fire	D	Replacement of existing house hold
В	Class 'B' fire		appliances
С	Class 'C' fire		
D	Class 'D' fire		

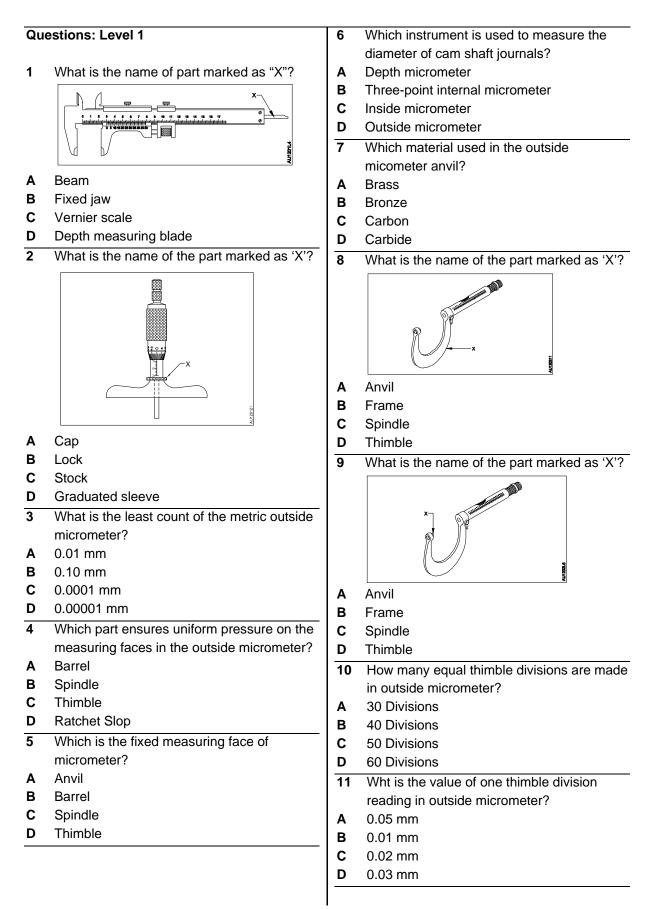
## Module 1 : Safety Workshop Practice - Key paper

### Questions: Level 1

SL.No	Key
1	B
	В
2 3 4 5 6	С
4	В
5	С
6	В
7	В
8	С
9	С
10	D
11	A C
12	С
13	D
14	A C
15	C

SL.No	Key
1	C C
2	С
3	В
4	A
5	A C
6	C D
7	D
8	A
9	D
10	C D
11	D
12	В
13	В
14	A
15	D

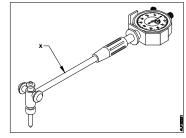
### Mechanic Diesel - 1<sup>st</sup> Semester - Module: 2 - Measuring, Marking and Practice



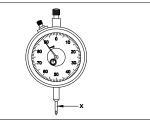
- 12 What is the name of the measuring instrument? Α В Α Depth gauge С В Bore dial gauge D С Telescopic gauge D Vernier gauge 13 What is the name of the part marked as 'X'? Α В С D Α В Spindle С В Plunger D Centring shoes Fixed anvil insert What is the name of the part marked as 'X'? Α В С Spindle D Plunger **Fixed Anvil Insert** Centering shoes Α
- Α
- С
- D
- 14

- Α
- В
- С
- D

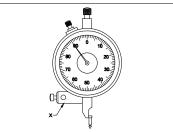
15 What is the name of the part marked as 'X'?



- Stem
- Plunger
- **Fixed Anvil Insert**
- Centering shoes
- 16 Which part actuates the movement of the dial for reading measurement of dial bore gauge?
- Stem
- Plunger
- Fixed anvil
- Centring shoe
- 17 Which instrument used to read the telescopic gauge measurement?
- Depth micrometer
- Inside micrometer
- Outside micrometer
- Three point internal micrometer
- 18 What is the name of the part marked as 'X'?

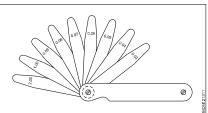


- Anvil
- Stem
- Plunger
- Pointer
- 19 Name the part marked as 'X'.



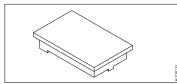
- Anvil
- В Clamp
- С Plunger
- D Stem

- **20** Which instrument is used to check the end-play of crank shaft?
- A Dial test indicator
- B Telescopic gauge
- C Bore dial gauge
- D Slip gauge
- 21 What is the name of the gauge?

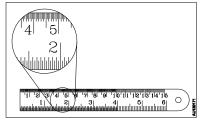


- A Feeler gauge
- B Snap gauge
- C Telescopic gauge
- D Plug gauge
- 22 Which can be measured by feeler gauge?
- A Radius
- B Screw pitch
- **C** Surface roughness
- **D** Gap between mating parts
- **23** Which marking media is used on the rough surfaces?
- A White wash
- B Prussian blue
- C Copper Sulphate
- D Cellulose lacquer
- 24 Which marking media used to mark in the finished surfaces?
- A White wash
- B Prussian blue
- **C** Copper Sulphate
- D Cellulose lacquer
- 25 Which marking media is poisonous?
- A White wash
- B Prussian blue
- C Copper sulphate
- D Cellulose lacquer

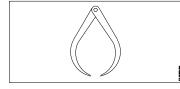
26 What is the name of equipment?



- A Surface plate
- **B** Angle plate
- C 'V' Block
- D Parallel Block
- 27 What is the basic unit of length as per SI unit?
- A Mm
- B Cm
- **C** Meter
- D Km
- **28** What is the least count of engineer steel rule?

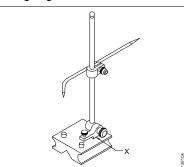


- **A** 1 mm
- **B** 0.5 mm
- **C** 2 mm
- **D** 3 mm
- **29** Which marking device used to scribe circle?
- A Jenny caliper
- B Inside caliper
- C Spring divider
- D Out side caliper
- **30** Which instrument is used to check the right angle?
- A Steel rule
- B Try square
- **C** Firm joint caliper
- D Spring Joint caliper
- 31 What is the use of outside calliper?



- A Check the flatness
- B Check the angle
- C Check the internal dia of the job
- D Check the external dia of the job

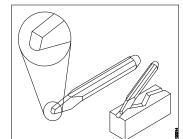
- 32 What is the name of the calliper? Inside caliper Α в Outside caliper С Firm joint caliper Spring joint outside caliper D 33 What is the name of calliper? Firm joint caliper Α В Spring joint caliper С Inside caliper D Jenny caliper 34 Name the part marked as 'X' Α Snug В Spindle С Guide pin D Rocker arm
- **35** Name the part marked 'X' in universal surface gauge?



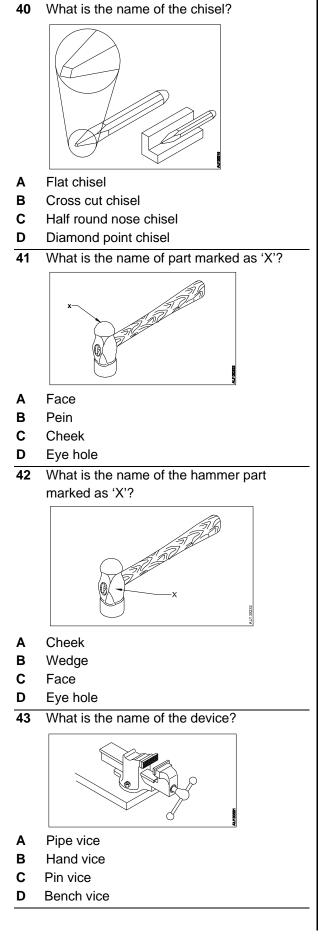
- A Snug
- B Scriber
- **C** Rocker arm
- **D** Vee groove
- **36** What is the point angle of centre punch?
- **A** 30°
- **B** 45°
- **C** 60°
- **D** 90°
- 37 What is the angle of prick punch?
- **A** 60°
- **B** 90°
- **C** 120°
- **D** 180°
- 38 What is the name of the chisel?



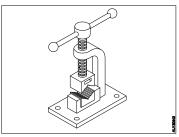
- A Flat chisel
- B Cross cut chisel
- C Half round nose chisel
- D Diamond point chisel
- **39** What is the name of the chisel?



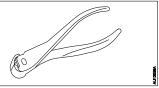
- A Flat chisel
- B Cross cut chisel
- **C** Half round nose chisel
- **D** Diamond point chisel



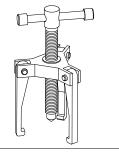
44 What is the name of the vice?



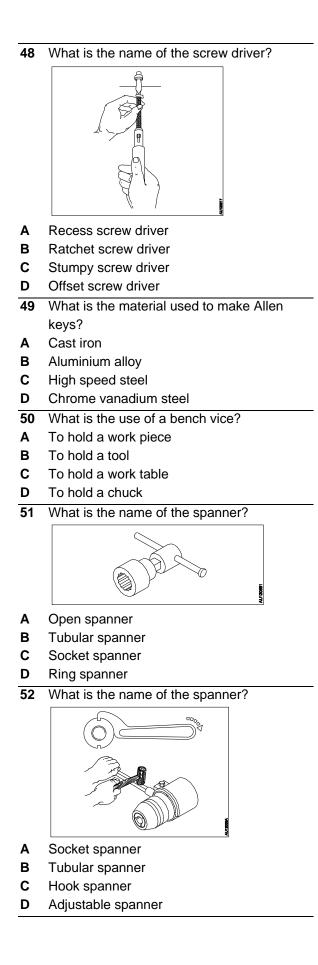
- A Pipe vice
- B Hand vice
- C Tool maker vice
- D Bench vice
- 45 What is the name of the plier?



- A Slip-joint plier
- B End cutting plier
- **C** Flat nose plier
- **D** Side cutting plier
- 46 What is the name of the tool?

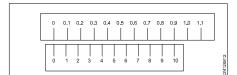


- A Jack
- B Puller
- C Wrench
- **D** Extractor
- **47** What is the working media of pneumatic tool?
- A Oil
- B Air
- C Water
- D Kerosene

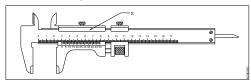


#### **Questions Level 2**

1 Calculate the value of 1 vernier scale in the figure.

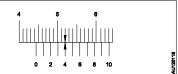


- 0.06 Units Α
- В 0.07 Units
- С 0.08 Units
- D 0.09 Units
- 2 What is the name of the part marked as 'X' in vernier caliper?



- Α Beam
- Lock screw В
- С Sliding unit
- D Movable jaw
- What is the least count of vernier caliper in 3 metric system?
- Α 0.1 mm
- В 0.01 mm
- 0.02 mm С
- D 0.001 mm
- Which measuring instrument used to 4 measuring inside, outside and depth of work piece?
- Α Steel rule
- В Micrometer
- С Dail caliper
- D Vernier caliper
- 5 Which part of vernier caliper used to measure internal and external measurement?
- Α Beam
- В Sliding unit
- С Fixed jaw
- D Movable jaw

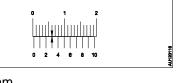
6 What is the reading of vernier caliper with the least count of 0.1 mm?



- 44.8 mm
- В 44.4 mm

Α

- С 44.6 mm
- D 45.2 mm
- 7 What is the reading of vernier caliper with the least count of 0.1 mm?



- 0.03 mm Α
- В 0.3 mm
- С 0.003 mm
- D 1.03 mm
- 8 Name the part marked 'X' in vernier calliper.





- 54.0 54.2
- С 54.4
- D 55.4

Α

В

- What is the smallest possible measurement 9 that can be taken with the depth micrometer?
- Α 0.01 mm
- В 0.02 mm
- С 0.001 mm
- D 0.002 mm
- **10** What is the measuring instrument used to measure diameter of a piston pin?
- Α Depth micrometer
- В Inside micrometer
- С Outside micrometer
- D 3 point internal micrometer

11 What is the reading of the outside 17 Which type of chisel used for squaring micrometer? material at the corners? Α Flat chisel В Half round chisel ∪ 5 |<sub>1</sub>|<sub>1</sub>|<sub>1</sub>|<sub>1</sub>|<sub>1</sub>|<sub>1</sub>|<sub>1</sub>| С Cross cut chisel D Diamond point chisel 18 What is the purpose of the eye hole in an Α 8.20 mm hammer? R 8.59 mm Α Strike the job 8.69 mm С В Fix the handle D 8.44 mm С Reduce the weight 12 What is the reading of the out side D Stamp the details micrometer (0-25 mm)? 19 What is the use of lump hammer? 25 Α 2.25 В 2.50 Strike the metal Α С 2.75 В Punch the metal С D 20.75 Spread the metal D Light demolition work 13 Which instrument used to check inside size 20 What is the purpose of mallets? of slots? Α Vernier caliper Α **Riveting operation** В Outside micrometer В Strike on soft metal С С Inside micrometer Strike on hard metal D Spread the metal to all sides D Telescopic gauge 14 21 Which screw driver is used in the space What is to be checked with vaccum gauge? Α Leak in the cooling system limitation? В Leak in the air brake system Α Cross-recers screw driver С Leak in the inlet-manifold system В Ratchet screw driver С D Leak in the hydraulic brake system Stumpy screw driver 15 What is the Purpose of chisel? D Offset screw driver Α Grinding 22 Which vice is used to hold a very small В Machining diameter job? С Reaming Α Pipe vice В Hand vice D Chipping С Pin vice 16 Which chisel is used to remove metal from D Tool maker's vice large flat surface? Α Flat chisel В Cross cut chisel С Half round nose chisel D Diamond point chisel

- 1 Which condition the tyre pressure not to be checked?
- A Tyre is cold
- **B** Tyre is carrying load
- **C** Before start of journey
- **D** Tyre is hot after long run

## Module: 2 - Measuring, Marking and Practice - Key paper

### Questions: Level 1

Questions: Level 2

Question: Level 3

SL.No 1

Key

D

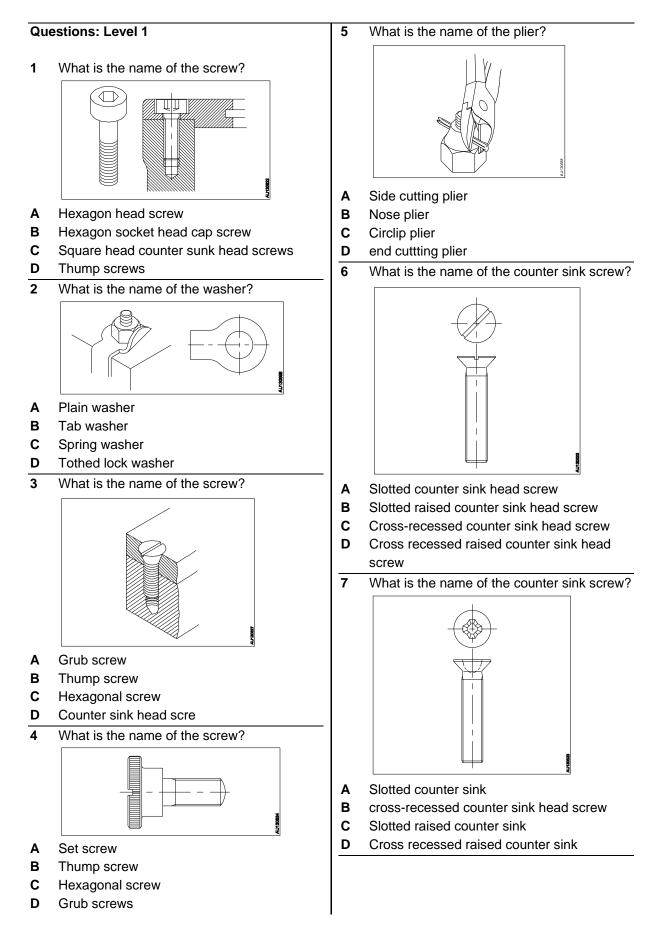
SL.No	Key
1	D
	В
3	А
2 3 4 5 6 7 8	D
5	А
6	D
7	D
8	В
9	A
10	C
11 12	В
12	В
13	С
14	В
15	А
16	В
17	B         A         D         A         D         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         A         D         A         B         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A <td< td=""></td<>
18	С
19	В
19         20         21         22         23         24         25         26         27         28	А
21	A
22	D
23	A
24	В
25	С
26	А
27	С
28	В
29	С
30	В
31	D
32	D
33	D D C C
34 35	С
36	D
37	А
38	В

SL.No	Key
39	С
40	D
41	В
42	А
43	D
44	А
45	В
46	В
47	В
48	В
49	D
50	А
51	С
52	С

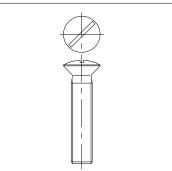
SL.No	Кеу
1	D
1 2 3 4 5 6 7 8 9	C
3	C
4	D
5	D
6	В
7	В
8	C
9	A
10	C
11 12	C
12	С
13	D
14	D C C D D B B B C C C C C C C C C C C C
15	D
16	A
17	D
18	В
19	D
20	D B C C
21	С
22	С

- NIMI Question Bank	-
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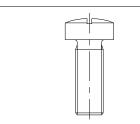
### Mechanic Diesel - 1<sup>st</sup> Semester - Module 3 : Fastening and Fitting



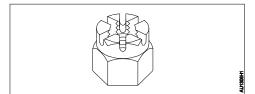
8 What is the name of the counter sunk screw?



- A Slotted counter sunk screw
- B cross-recessed counter sunk head screw
- C Slotted raised counter sunk head screw
- D Cross recessed raised counter sunk head screw
- **9** What is the type of the machine screw head?

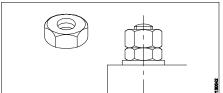


- A Pan head
- B Round head
- **C** Cheese head
- D Raised cheese head
- 10 What is the name of the nut?

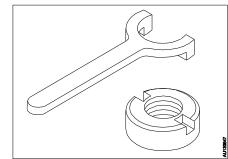


- A Square nut
- B Lock nut
- C Castle nut
- D Self locking nut

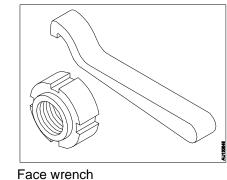
**11** What is the name of nut?



- A Lock nut
- B Castle nut
- C Square nut
- D Sloted round nut
- **12** Which nut is used for structural and machine tool construction?
- A Square nut
- B Hexagonal nut
- **C** Wing nut
- D Castle nut
- **13** What is the name of the tool?

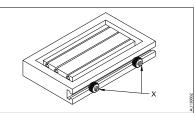


- A Face wrench
- B Hook wrench
- C Pin wrench
- **D** Face pin wrench
- **14** What is the name of the tool?

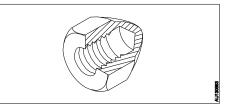


- A Face wrenchB Hook wrench
- C Pin wrench
- **D** Face pin wrench

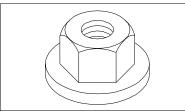
15 What is the name of the nut marked 'X'?



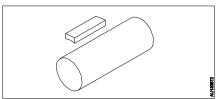
- A Chuck nut
- B Thumb Nut
- C Domed cap nut
- D Hexagonal nut with coller
- 16 What is the name of the nut?



- A Lock nut
- B Thumb nut
- C Domed cap nut
- D Hexagonal nut with collor
- 17 What is the name of the nut?

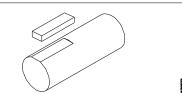


- A Thumb nut
- B Domed cap nut
- C Hexagonal nut with collor
- D chuck nut
- **18** Which type of nut required to align the axle shaft hole and slot of the nut for locking?
- A Castle nut
- B Chuck nut
- C Thumb nut
- D Self lock nut
- 19 What is the name of the key?

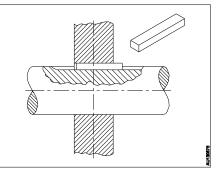


- A Hollow saddle key
- B Flat saddle key
- C Circular taper key
- D Parallel sunk key

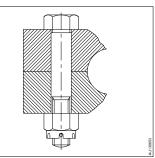
20 What is the name of the key?



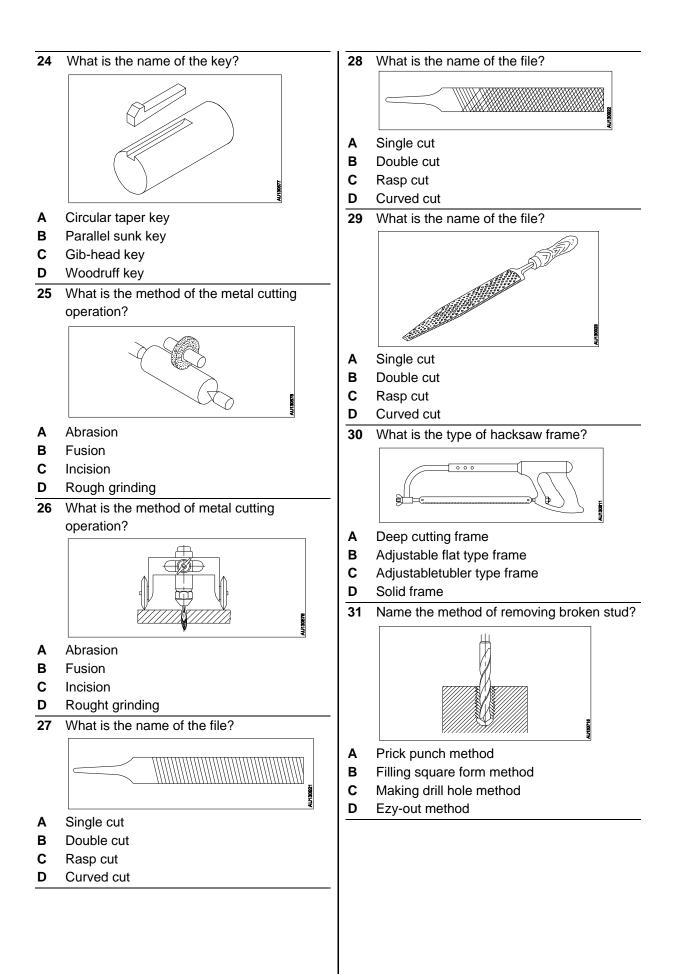
- A Hollow saddle key
- B Flat saddle key
- C Circular taper key
- D Parallel sunk key
- 21 Which type of locking device used on shaft and similar parts?
- A Split pin
- B Wire lock
- **C** Internal circlip
- D External circlip
- 22 Which type of the key used on the shaft and hub?



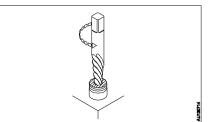
- A Hollow saddle key
- B Flat saddle key
- **C** Circular taper key
- D Parallel sunk key
- **23** What is the name of bolt?



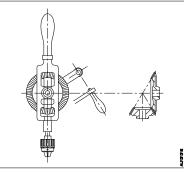
- A Anti fatigue bolt
- B Bolt with clearance hole
- C 'T' Bolt
- **D** Body fit bolt



**32** Name the method of removing broken stud?

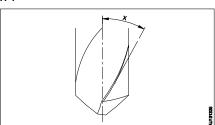


- A Making drill hole method
- B Ezy-out method
- **C** Filling square form method
- D Prick punch method
- 33 What is the name of drilling machine?



- A Ratchet drilling machine
- B Bevel gear drilling machine
- **C** Pneumatic drilling machine
- D Breast drilling machine
- **34** Which type of portable drilling machine have variable speed?
- A Breast hand drill
- **B** Heavy duty electric hard drill
- **C** Ratchet hand drill
- **D** Bevel gear hand drill
- **35** Which part of drill bit fits in to the slot of drilling machine spindle?
- A Body
- B Tang
- C Flute
- D Web

**36** What is the name of the angle marked as 'x'?



- A Helix angle
- B Rake angle
- C Point angle
- D Clearance angle
- 37 What is the material of the hand tap?
- A Cast Iron
- B Low carbon steel
- C High speed steel
- D Stainless steel

-		1 -	
Qu	estions: Level 2	8	Which type of fit will have maximum size
	Million with a new interdentiation. Notice with a size of the	•	hole and minimum size shaft? Interference fit
1	Which nut provided with Nylon ring in the	A B	Clearance fit
	groove?	C	Transition fit
A	T-nut		
3	Castle nut	D	Shrinkage fit
2	Slotted nut	9	Which type of fit represent the tolerance
D	Self locking nut		zone of the hole and shaft over lap each
2	Which key used for easy fixing and		other?
	removing?	Α	Transition fit
1	Feather key	В	Clearance fit
3	Gib-Head key	С	Shrinkage fit
;	Hollow saddle key	D	Interference fit
)	Circular tapper key	10	How to hold the small jobs while working o
3	Which key is used while hub slides axially in		bench grinder?
	the shaft?	Α	Hold the job with cotton waste
1	Woodruff key	в	Hold the job with gloves
3	Gib-Head key	С	Hold the job with pliers
;	Feather key	D	Hold the job with hand
)	Hollow saddle key	11	What type of operation carried out on
			grinding wheel?
	Which key is used for tapered shaft fitting?		
1	Woodruff key		
3	Feather key		
)	Flat saddle key		
)	Hollow saddle key		
5	What is the pitch of hacksaw blade?		
1	Distance between adjacent teeth		
3	Distance between pin holes	Α	Glazing
)	Distance between edges of blade	в	Loading
)	Distance between Top and bottom edges	С	Dressing
;	Which type of the file used for filling wood	D	Pinning
	and leather?	12	What is the recommended gap between to
1	Rasp cut file	12	post and grinding wheel?
3	Basterd file	•	1 mm
;	Second cut file	A	2 mm
)	Smooth file	B	
•	What is Tolerance of limits and fits system?	C	3 mm
1	Difference between actual size and basic	D	4 mm
•	Size	13	What is the pitch of wave set hacksaw
3	Difference between standard and minimum	1	blade?
J		Α	0.4 mm
	size	В	0.8 mm
;	Difference between standard and maximum	С	1.2 mm
	size	D	Over 1.0 mm
)	Difference between maximum and minimum	14	Which drilling machine is used to drill holes
	size	1	between 6mm to 12 mm?
		Α	Breast drill
		В	Ratchet hand drill
		c	Pneumatic hand drill
		-	

15	What are the tools are used to remove the
	drills and sockets from the machine spindle?

- A Screw driver and hammer
- **B** Spanner and hammer
- C Punch and hammer
- D Drift and hammer
- **16** Which angle helps in the penetration of the cutting edges in the material?
- A Helix angle
- **B** Point angle
- **C** Clearance angle
- D Rake angle
- **17** Which tap in a set have 20° chamfer at its end?
- A Intermediate tap
- B Taper tap
- C Plug tap
- **D** Second tap

- 1 Why alternate teeth are staggered in hacksaw blade?
- A For free cutting action
- **B** For curve cutting action
- **C** For coarse cutting action
- **D** For straight cutting action

## Module 3 : Fastening and Fitting - Key paper

### **Questions: Level 1**

### Questions: Level 2

Question: Level 3

SL.No	Key	
1	B	
	B	
3	D	
2 3 4	D B	
5 6	A A	
	А	
7	B C A C A B	
8	C	
9	A	
10	C	
11	A	
12		
13	А	
14	В	
15	В	
16	С	
17	С	
18	C A	
19	А	
20	В	
21	D	
22	D	
23	D	
24	С	
25	A B	
26		
27	А	
28	В	
29	С	
30	C C	
31	С	
32	В	
33	В	
34	В	
35	В	
	-	

36

37

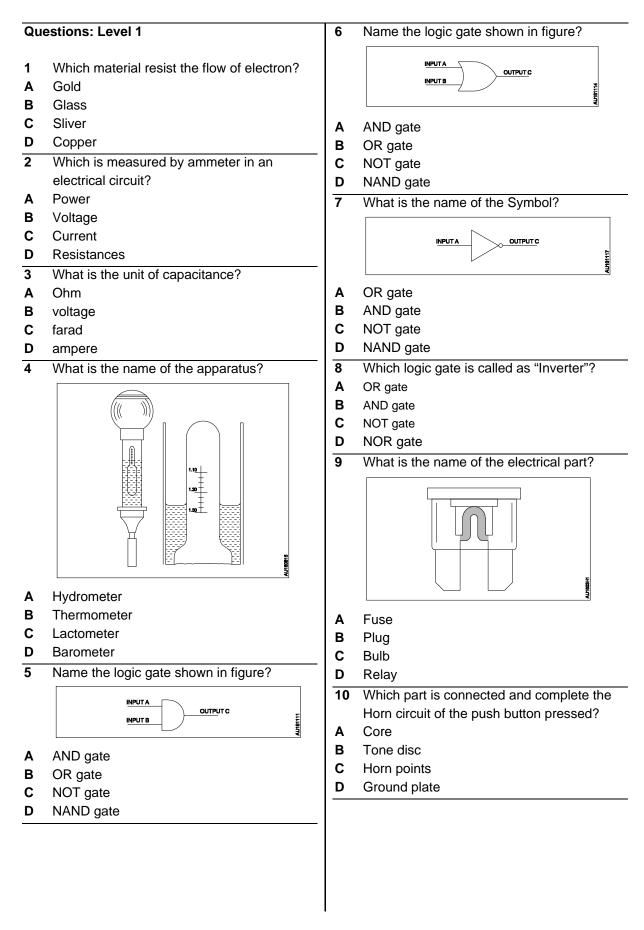
В

С

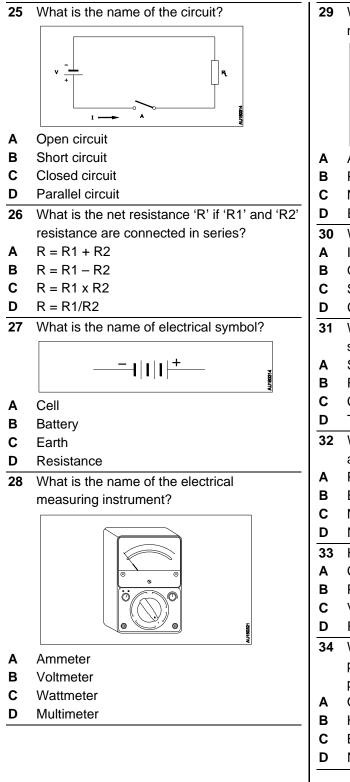
SL.No	Key
1	D
2 3 4	В
3	С
4	A
5	А
6 7	A A D
	D
8	В
9	А
10	C C
11	С
12	В
13	В
14	A
15	D
16	С
17	С

SL.No	Key
1	А

## Mechanic Diesel - 1<sup>st</sup> Semester - Module 4 : Electrical and Electronics



11	What does number 25 in the cable size	19	What type of emf is produced if the
	(25/0.012) indicate?		conductor moved and cut the magnetic fied?
Α	Length of the strand	Α	Dynamically induced emf
в	Number of the strand	в	Statistically induced emf
С	Diameter of the strand	С	Electro-chemical induced emf
D	Thickness of the cable	D	Electro-magnetic induced emf
12		20	What is the effect of the soft Iron bar in a
12	What is the purpose of colour code in cables?	20	closed circuit?
A	Colour refers the current rating		
В	Colour refers the voltage rating		
С	Easy identification of each circuit		
D	Refers the size of the wire		
13	Which device have the ability to store		
	electrical charge?	Α	Shock effect
Α	Capacitor	В	Heating effect
В	Resistor	C	Magnetic effect
С	Insulator	D	Chemical effect
D	Conductor		
14	What is the energy conversion of battery	21	What is the name of the Electronic Symbol?
	during discharge?		
Α	Electrical energy into heat energy		
в	Chemical energy into electrical energy		₹
С	Electrical energy into chemical energy	Α	Diode
D	Electrical energy into mechanical energy	В	Switch
		С	Battery
15	What is the energy conversion of battery	D	Transistor
		22	
	during charging?	~~~	Which electronic component is used as a
A	Electrical energy into chemical energy	~~~	Which electronic component is used as a solid state switch?
в	Electrical energy into chemical energy Electrical energy into heat energy	A	-
B C	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy		solid state switch?
B C D	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy	А	solid state switch? Inductor
B C	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the	A B	solid state switch? Inductor Resistor
B C D	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery?	A B C	solid state switch? Inductor Resistor Capacitor
B C D	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin	A B C D	solid state switch? Inductor Resistor Capacitor Transistor
B C D 16	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery?	A B C D 23	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor?
B C D 16	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin	A B C D 23 A	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode
B C D 16 A B	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide	A B C D 23 A B	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor
B C D 16 A B C	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony	A B C D 23 A B C D	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor
B C D 16 A B C D	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony Spongy lead	A B C D 23 A B C	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor What is the ampere hour rating of battery
B C D 16 A B C D 17	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony Spongy lead Which acid is used in the lead acid battery?	A B C D 23 A B C D 24	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor What is the ampere hour rating of battery deliver 5 ampere and period of 20 hours?
B C D 16 A B C D 17 A	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony Spongy lead Which acid is used in the lead acid battery? Nitric acid	A B C D 23 A B C D 24 A	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor What is the ampere hour rating of battery deliver 5 ampere and period of 20 hours? 80 Ampere hour
B C D 16 A B C D 17 A B	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony Spongy lead Which acid is used in the lead acid battery? Nitric acid Sulphuric acid	A B C D 23 A B C D 24 A B	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor What is the ampere hour rating of battery deliver 5 ampere and period of 20 hours? 80 Ampere hour 90 Ampere hour
B C D 16 A B C D 17 A B C	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony Spongy lead Which acid is used in the lead acid battery? Nitric acid Sulphuric acid Hydro bromic acid	A B C D 23 A B C D 24 A B C	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor What is the ampere hour rating of battery deliver 5 ampere and period of 20 hours? 80 Ampere hour 90 Ampere hour
B C D 16 A B C D 17 A B C D	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony Spongy lead Which acid is used in the lead acid battery? Nitric acid Sulphuric acid Hydro bromic acid Hydro chloric acid	A B C D 23 A B C D 24 A B	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor What is the ampere hour rating of battery deliver 5 ampere and period of 20 hours? 80 Ampere hour 90 Ampere hour
B C D 16 A B C D 17 A B C D	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony Spongy lead Which acid is used in the lead acid battery? Nitric acid Sulphuric acid Hydro bromic acid Hydro chloric acid	A B C D 23 A B C D 24 A B C	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor What is the ampere hour rating of battery deliver 5 ampere and period of 20 hours? 80 Ampere hour 90 Ampere hour
B C D 16 A B C D 17 A B C D 18	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony Spongy lead Which acid is used in the lead acid battery? Nitric acid Sulphuric acid Hydro bromic acid Hydro chloric acid What is the specific gravity of fully charged battery? 1.170 - 1.200	A B C D 23 A B C D 24 A B C	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor What is the ampere hour rating of battery deliver 5 ampere and period of 20 hours? 80 Ampere hour 90 Ampere hour
B C D 16 A B C D 17 A B C D 18 A	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony Spongy lead Which acid is used in the lead acid battery? Nitric acid Sulphuric acid Hydro bromic acid Hydro chloric acid What is the specific gravity of fully charged battery?	A B C D 23 A B C D 24 A B C	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor What is the ampere hour rating of battery deliver 5 ampere and period of 20 hours? 80 Ampere hour 90 Ampere hour
B C D 16 A B C D 17 A B C D 18 A B	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony Spongy lead Which acid is used in the lead acid battery? Nitric acid Sulphuric acid Hydro bromic acid Hydro chloric acid What is the specific gravity of fully charged battery? 1.170 - 1.200 1.210 - 1.230 1.240 - 1.250	A B C D 23 A B C D 24 A B C	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor What is the ampere hour rating of battery deliver 5 ampere and period of 20 hours? 80 Ampere hour 90 Ampere hour
B C D 16 A B C D 17 A B C D 18 A B C	Electrical energy into chemical energy Electrical energy into heat energy Chemical energy into electrical energy Electrical energy into mechanical energy What is the material of possitive plate in the lead acid battery? Tin Lead peroxide Antimony Spongy lead Which acid is used in the lead acid battery? Nitric acid Sulphuric acid Hydro bromic acid Hydro chloric acid What is the specific gravity of fully charged battery? 1.170 - 1.200 1.210 - 1.230	A B C D 23 A B C D 24 A B C	solid state switch? Inductor Resistor Capacitor Transistor Which is a temperature sensitive resistor? Diode Thyristor Thermistor Transistor What is the ampere hour rating of battery deliver 5 ampere and period of 20 hours? 80 Ampere hour 90 Ampere hour



What is the name of the part marked 'X' in nuclecus? Atom Proton Neutron Electron Which is the semi conductor material? Iron Gold Silicon Carbon Which component is made by semiconductor material? Switch Resistor Capacitor Transistor What is the name of central part of an atom? Proton Electron Neutron Nucleus How the flow of Electron is called Current Power Voltage Resistance Which Law state that "The current indirectly propotional to the voltage and inversely propotional to the resistance" Ohm's Law Hook's Law Boyle's Law Newton's Law

- Which electrical measuring instruments is fitted on the vehicle panel board?
   A Ammeter
- B Voltmeter
- **C** Wattmeter
- D Ohm meter
- **2** Which circuit the ballast resistor is used?
- A Horn circuit
- B Wiper circuit
- **C** Flasher circuit
- **D** Head lamp circuit
- **3** What type of resistor is used in the vehicle flasher unit?
- A Ballast resistor
- B Film resistor
- **C** Printed resistor
- D Integrated resistor
- 4 What is the advantage of free maintenance sealed battery?
- A No need for check and top up distilled water
- **B** No need for recharging of battery
- **C** No chance for sulphation of battery terminals
- **D** No need for disconnect the terminals to remove battery
- 5 How the battery capacity is expressed?
- A Ampere hour rating
- **B** Voltage hour rating
- **C** Ampere rating
- **D** Voltage rating
- 6 Which is the semi conductor materials?
- A Arsenic and boron
- **B** Gallium and indium
- C Germanium and silicon
- D Aluminium and antimony

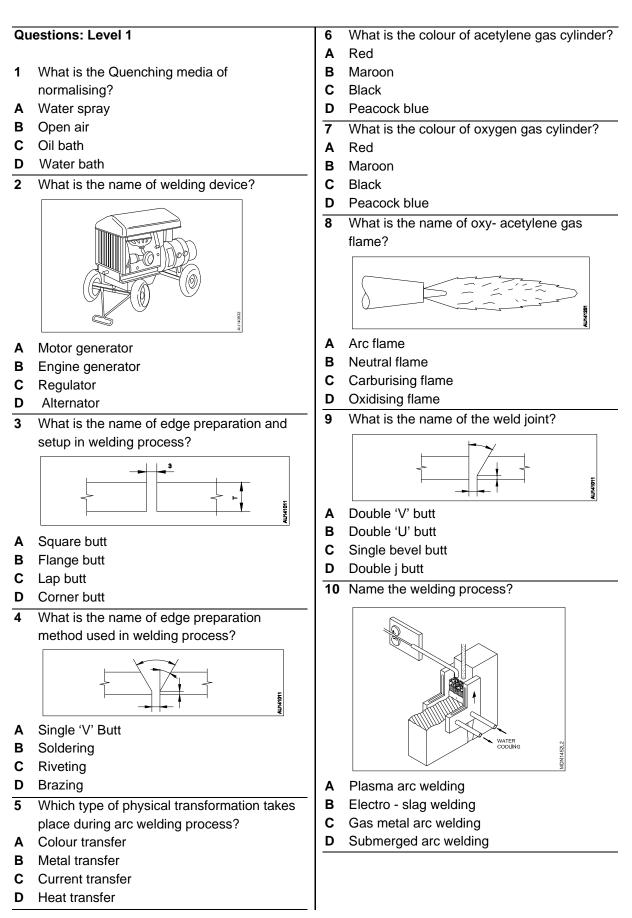
# Module 4 : Electrical and Electronics - Key paper

#### Questions: Level 1

SL.No	Кеу
1	В
2	С
3	С
4	A
2 3 4 5 6 7	A
6	В
/	C
8 9	
9 10	A
10	Δ
12	<u>с</u>
12	<u>ر</u>
13 14 15	A
14	В
15	A
16	В
17	В
17 18	D
19	А
20	С
21	А
22	D
23	С
24	С
25	А
20 21 22 23 24 25 26 27	B         C         A         B         C         A         D         A         D         A         B         C         A         D         A         D         A         D         A         D         A         D         A         D         A         D         C         A         D         C         A         D         A         B         B         A         C         A         D         C         A         D         C         A         B         B         B         A         C         A         B         B         B         A         B         B <td< td=""></td<>
27	В
28	D
29	В
30	С
31	D
32	D
33	А
34	А

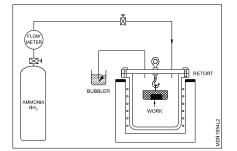
SL.No	Key
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2	С
3	А
4	А
5	А
6	С

## Mechanic Diesel - 1<sup>st</sup> Semester - Module 5 : Arc and Gas Welding

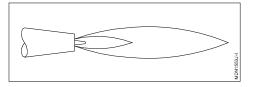


11	What is the dia of medium coated MS	16	Which solution is used for acetylene gas
	electrode used in fillet weld lap joint with		connection leakage test?
	110/120 Amps welding current?	Α	Kerosene
Α	1.0 mm	в	Naked fire
В	1.5 mm	С	Soap water
c	2.5 mm	D	Fresh water
D	3.15 mm	17	
	What is the electrode angle with weld line?	Α	Red
A	70° to 80°	В	Black
В	50° to 60°	C	Maroon
c	45° to 50°	D	Peacock blue
D	35° to 40°		
		10	, , ,
13	Which is protecting the eyes from harmful	•	acetylene? Red
•	rays of the electric arc welding?	A	Black
A	Helmet	B	
B	Lather apron	C	Maroon Peacock blue
C D	Lather gloves	D	
	Welding helmet screen	19	What is the name of part marked as 'X'?
14	What is the name of equipment?		
			9
			NI1553
			· •
	100	Α	Safety plug
	I NOW	В	Valve socket
Δ	Motor generator set	С	Valve spindle
В	Engine generator set	D	Dissolved acetylene
c	DC generator machine	20	What is the name of process?
D	Alternating current welding machine		
15	What is the name of part marked as 'X'?		
-			
	A A		
		Α	Annealing
		В	Carburising
		С	Normalising
	Tessindw	D	Case hardening
Α	Regulator		
В	Blow pipe		
С	Spark lighter		
D	None - return disc		
_		I	

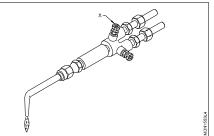
- **21** Which type of hardening used eddy current in the metal bar?
- A Flame hardening
- B Nitriding hardening
- C Induction hardening
- D Annealing hardening
- **22** Which type of hardening used for cam shaft production?
- A Annealing
- B Carburising
- C Normalising
- D Induction hardening
- 23 What is the name of process?



- A Nitriding
- **B** Annealing
- C Carburising
- D Induction hardening
- 24 What is the name of gas flame?

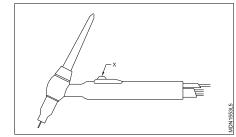


- A Neutral flame
- B Starting flame
- C Oxidising flame
- D Carburising flame
- **25** What is the name of part marked as 'X'?

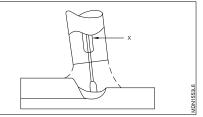


- A Nozzle
- B Handle
- C Oxygen control valve
- D Acetylene control valve

26 What is the name of part marked as 'X'?



- A Switch
- B Ceramic nozzle
- **C** Welding current
- **D** Tungsten electrode
- 27 What is the name of part marked as 'X'?



- A Pilot arc
- B Electrode
- **C** Weld pool
- D Contact tube

Qu	estions: Level 2	8 Which machine can be used any where in the
	Which are in the best treatment process?	field for welding away from electric main
1	Which one is the heat treatment process?	supply?
A B	Casting	<ul> <li>A Motor generator set</li> <li>B Engine generator set</li> </ul>
	Machining Welding	<ul><li>B Engine generator set</li><li>C AC arc welding machine</li></ul>
C D	Annealing	<ul> <li>D AC welding transformer with a rectifier</li> </ul>
2	Which quenching media applied in the flame hardening process?	
Α	Still air	welded by AC welding machine?
B	Oil bath	B Cast iron
C	Brine solution bath	C Mild steel
D	Water spray	D High carbon steel
3	What is the purpose of hardening?	<b>10</b> Which is the safety method for carry the oxy-
A	Increase ductility	
B	Increase malleability	acetylene gas cylinders?  A Rolling
C	Increase strength	B Sliding
D	Increase britlenesss	C Dragging
		D Use a trolly
4 A	What is the purpose of annealing? Improve hardness	11 Which is the stage of heat treatment process?
B	Improve machinability	A Cooling the metal
C	Improve brittleness	<ul><li>B Heating the metal slowly</li></ul>
D	Improve billity	<b>C</b> Hold at a given temperature
5	What is the advantage of AC arc welding	<b>D</b> Heat and cool the metal as soon as possible
5	machine?	<b>12</b> What is the importance of case hardening?
Α	More initial cost	A To increase softness
В	Freedom from arc blow	B To withstand wear resistance
C	More maintenance cost	<b>C</b> To withstand heavy load
D	Un suitable for non ferrous metal	<b>D</b> To decrease the brittleness
6	What is the advantage of using rectifier set in	
Ũ	arc welding machine?	
Α	Suitable for all ferrous and non-ferrous	
В	Initial cost is higher	
С	Maintenance cost is more	
D	Special safety precaution required	
7	What is the name of welding process?	
	Power supply (AC or DC)	
Α	Arc welding	
в	Carbon arc welding	
С	Plasma arc welding	
D	Submerged arc welding	

- 1 Which valve to be closed first while gas flame snaps out and back fire?
- A Oxygen valve in cylinder
- **B** Oxygen valve at blow pipe
- **C** Acetylene valve in cylinder
- **D** Acetylene valve at blow pipe
- **2** Which gas cutting process is suitable for all position, location and under water?
- A Gas cutting
- B Plasma cutting
- **C** Manual cutting
- **D** Machine cutting

## Module 5 : Arc and Gas Welding - Key paper

### Questions: Level 1

### Questions: Level 2

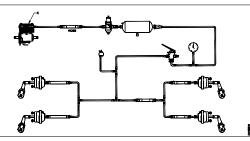
SL.No	Кеу
1	В
2	В
2 3 4 5 6 7	A
4	A
5	В
6	В
7	C
8 9 10	В
9	C
10	D
11	D
12	A
13	D
11 12 13 14 15	D
15	С
16	C
16 17	В
18	С
19	А
20	В
21 22 23	С
22	D
23	A
24 25	D
25	B         A         A         B         C         D         D         C         D         C         B         C         D         C         B         C         B         C         B         C         A         D         C         A         D         C         A         D         C         A         D         C         A         D         C         A         D         C         A         D         C         A         D         C         A         D         C         A         D         C         A         D          C          A
26	A
27	D

SL.No	Key
1	D
2	D
3	С
4	В
5	В
6	А
7	В
8	В
9	А
10	D
11	В
12	В

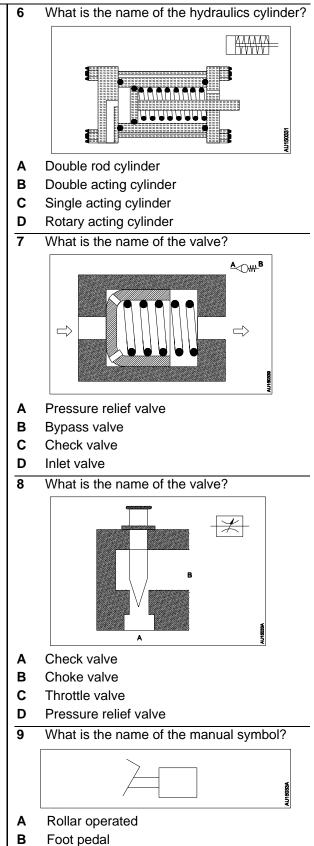
SL.No	Кеу
1	В
2	В

### Mechanic Diesel 1<sup>st</sup> Semester - Module 6 : Hydraulics and Pneumatics

- 1 Which device is used in hydraulic brake system?
- A Air tank
- B Master cylinder
- **C** Pressure gauge
- D Un loader cylinder
- 2 What is the name of the part marked as 'X'?

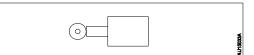


- A Air tank
- B Air pressure gauge
- C Brake valve
- D Compressor
- **3** Which type of pump used in the hydraulic jack?
- A Gear pump
- B Plunger pump
- **C** Vane pump
- D Internal gear pump
- 4 Which device converts mechanical into pneumatic energy?
- A Actuator
- B Generator
- C Altenation
- D Compressor
- 5 Which device converts hydraulic energy into mechanical energy?
- A Actuator
- B Regulator
- C Compressor
- D Control Valve

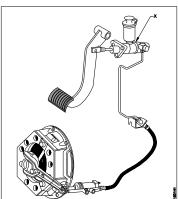


- C Push Button
- **D** General button

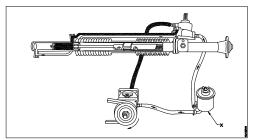
**10** What is the name of the mechanical symbol?



- A Plunger
- B Push button
- C Rollar
- D Foot Pedal
- **11** What is the name of the part marked as 'X'?

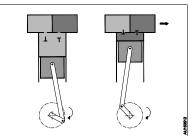


- A Slave cylinder
- B Master cylinder
- **C** Air cylinder
- D Wheel cylinder
- **12** What is the name of the part marked as 'X'?

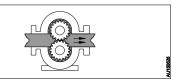


- A Steering gear
- B Piston rod
- C Pressure line
- D Fluid reservoir
- **13** Which is the power source of the pneumatic system?
- A Actuator
- B Control value
- **C** Air Compressor
- D Air Service unit

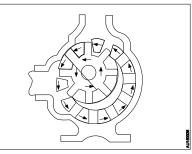
14 What is the type of the compressor?



- A Gear type
- B Vane type
- C Rotary type
- D Reciprocating type
- **15** Which law is applied in hydraulic brake system?
- A Boyle's law
- B Charles law
- C Pascal's law
- D Newton's law
- **16** Which act as a seal in the external gear pump?
- A Housing
- B Drive gear
- **C** Driver gear
- D Gear meshing
- **17** What is the name of drive pump?

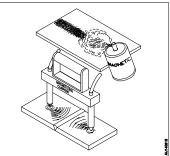


- A Van pump
- B Plunger pump
- C Internal gear drive pump
- **D** External gear drive pump
- **18** What is the name of pump?

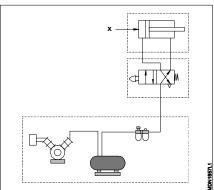


- A Rotor Pump
- B Plunger pump
- **C** Internal gear pump
- D External gear pump

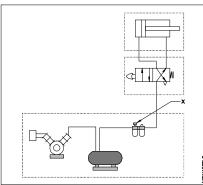
- **19** Which type of clutch system used in the slave cylinder?
- A Vacuum clutch
- **B** Hydraulic clutch
- C Over running clutch
- D Electro magnetic clutch
- 20 What is the name of NDT method?



- A Ultrasonic test
- **B** Eddy current test
- **C** Magnetic particle test
- **D** Radio graphic test
- **21** What is the name of pneumatic component marked as 'X'?

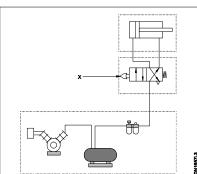


- A Actuator
- B Compressor
- C Control valve
- D Reservoir tank
- 22 Name the pneumatic component marked as 'X'?

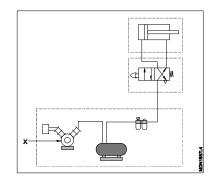


- A FRL
- **B** Actuator
- **C** Compressor
- D Reservoir tank

**23** Name the pneumatic component marked as 'X'?



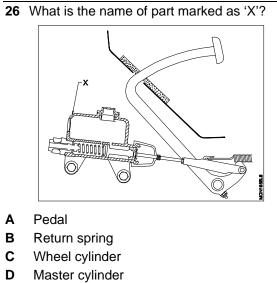
- A Actuator
- **B** Compressor
- **C** Control valve
- **D** Reservoir tank
- **24** Name the pneumatic component marked as 'X'?

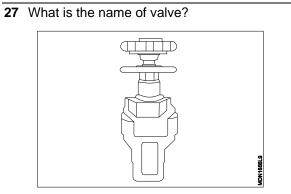


- A Actuator
- B Compressor
- C Control valve
- D Reservoir tank
- 25 What is the name of NDT method?



- A Ultra sonic testing
- B Radiographic testing
- C Liquid penetrate testing
- D Electro magnetic yoke testing





- Non return valve Α
- В Flow control valve
- С 4/2 normally open
- Pressure relief valve D

- 1 What the function of brake valve in the pneumatic brake system?
- **A** Allow the air pressure to the system
- **B** Release the air to the atmosphere
- **C** Maintain air pressure in the tank
- **D** Allow air pressure to pressure gauge
- 2 What is the direction of rotation of driven gear meshing in the external driving gear?
- A Same direction
- B Inclined direction
- **C** Opposite direction
- D Perpendicular direction
- **3** Which part in the internal gear pump act as seal?
- A Gears
- B Gasket
- **C** Sealing ring
- D Cresent-shaped spacer
- 4 Which type of NDT method used ferrous particles are applied to the area between the poles?
- A Ultra sonic testing
- **B** Radiographic testing
- **C** Liquid penetrate testing
- D Electro magnetic yoke testing

## Module 6 : Hydraulics and Pneumatics - Key paper

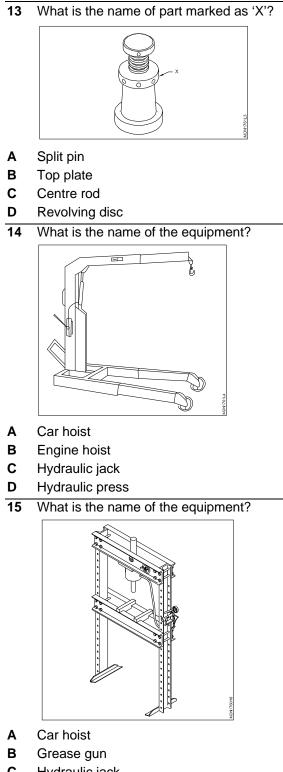
### Questions: Level 1

SL.No	Key
1	В
2	D
3	В
4	D
1 2 3 4 5 6 7	А
6	С
7	С
8	С
9	В
10	С
11 12 13 14	В
12	D
13	С
14	D
15	С
16	D
17 18	D
18	С
19	В
20	С
21	А
22	A
19 20 21 22 23	С
24	В
25	С
26	B D A C C C B C B D C D C D C D C D C D C D C
27	D

SL.No	Key
1	А
2	С
3	D
4	D

# Mechanic Diesel - 1<sup>st</sup> Semester -Module: 7 Specification and Service Equipments

Qu	estions: Level 1	8	Which is the digit indicate the engine type in the groups of VDC 17 digit of VIN number?
1	When did first car rolled out in the street of	Α	2
•	calcutta?	B	3
Α	1810	C	5
В	1887	D	8
C	1910	9	What is indicate 12 - 17 digit in 17 digit VIN
D	1950	5	number?
2		Α	Body type
2	Which year Hindustan motor established	B	Vehicle type
	Ambassador car industry in India? 1900	C	Serial number
A D		D	
B	1920		Plant of product
C	1940	10	Which is the Ministry of India regulate the
D	1980		motor vehicle activities?
3	When did maruti car launched in India?	A	Minister of finance
A	1920	B	Minister of defence
В	1940	С	Minister of rural and development
С	1983	D	Minister of road transport and highways
D	1990	11	What is the name of part marked as 'X'?
4	What is indicate 2498 CC in vehicle		
	specification?		
Α	Engine capacity		
В	Full tank capacity		
С	Single bore capacity		
D	Master cylinder capacity		
5	What is the term for 2 WD in vehicle		
	specification?		L χ γ
Α	Two wheel drive	Α	Belt
В	Four wheel drive	В	Cock
С	Rear wheel drive	С	Motor
D	Front wheel drive	D	Drain plug
6	Which increasing the torque in the steering	12	What is the name of equipment?
	system?		
Α	Drop arm		
в	Gear box		
С	Fluid plump		000
D	Knuckle arm		
7	What is the information given by 6J x 15?	·	Sur 2
A	Rim size		
В	Tyre size	Α	Jack stand
c	Engine size	в	Hydraulic Jack
D	Vehicle size	С	Mechanical Jack
_		D	Hydraulic car hoist



- C Hydraulic jack
- D Hydraulic press

- 1 Which type of vehicle capable of sensing its environment and navigating without human input?
- A Diesel car
- B Petrol car
- C Electric car
- D Driver less car
- 2 Which type of service equipment used to hold the lifted vehicle for a long period?
- A Hoist
- B Jack stand
- **C** Arbor press
- **D** Hydraulic jack
- **3** Which type service equipment used in car service station to lift the car?
- **A** Arbor press
- **B** Hydraulic jack
- **C** Hydraulic hoist
- D Hydraulic press
- 4 Which is used for quick inspection under the chassis of a car?
- A Stands
- B Screw jack
- C Trolley jack
- D Two post hoist

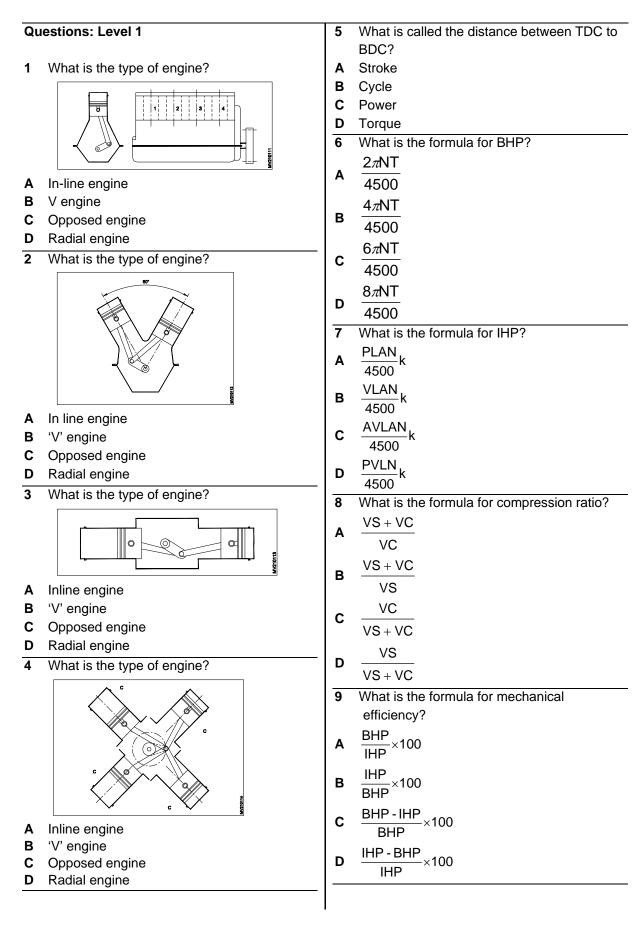
## Module 7 : Specification and Service Equipments - Key paper

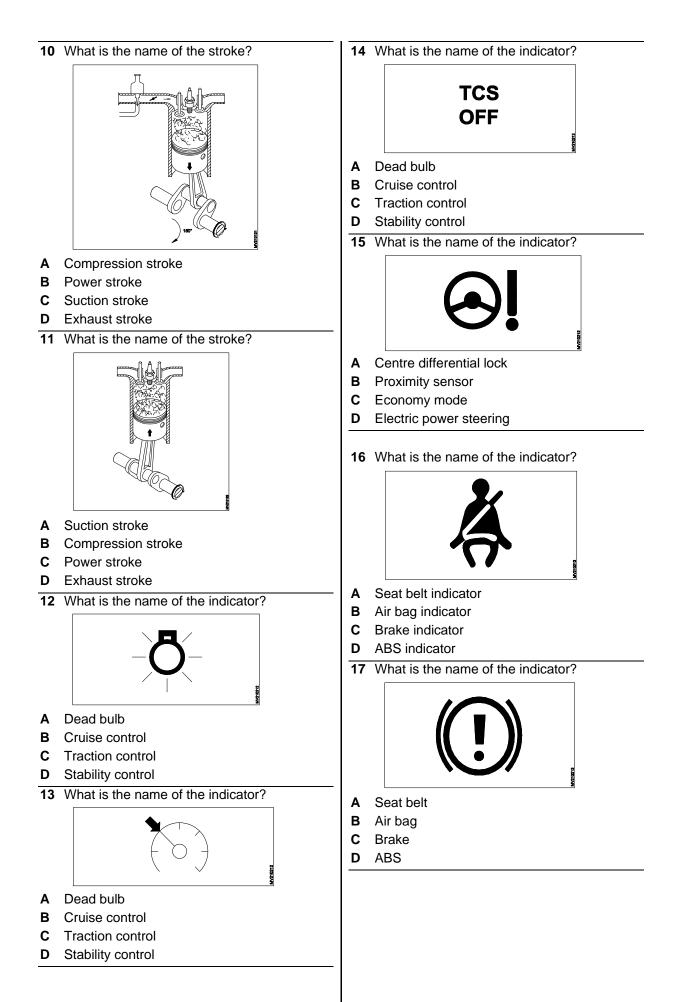
#### Questions: Level 1

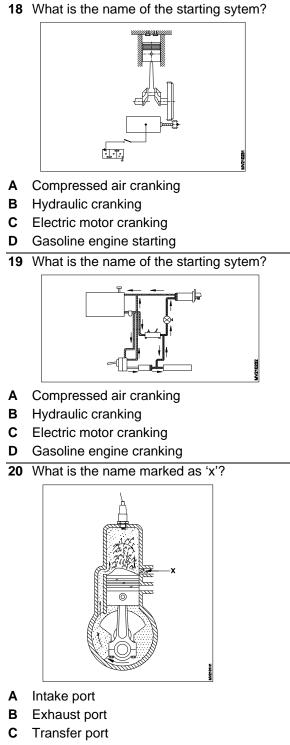
SL.No	Key
1	В
2	C C
3	
4	A
5	A
6	В
7	A
8	D
9	C
10	D
11	D
12	С
13	D
14	В
15	D

SL.No	Key
1	D
2	A
3	С
4	С

# Mechanic Diesel 2<sup>nd</sup> Semester - Module 1 : Diesel Engine Overview







**D** Injection port

1		Α	Double the throw
-			List states the second
	Which is the engine having cylinders at 60°?	B	Half of the throw
Α	Inline	C	Equal to the throw
В	'V' engine	D	4 times of throw
C	Opposed engine	10	What is firing order?
D	Radial engine	Α	Sequence of power stroke occurrence
2	Which is the engine having cylinders in 90°	в	Sequence of suction stroke occurrence
	each of 4 cylinders?	С	Sequence of compression stroke occurrence
Α	Inline engine	D	Sequence of exhaust stroke occurrence
В	'V' engine	11	What is the use of bourdon gauge?
С	Opposed engine	A	To measure pressure
D	Radial engine	В	To measure temperature
3	Which is the engine most preferred in	C	To measure volume
•	aeroplanes?	D	To measure heat
^	Inline engine		
A B	'V' engine	12	Which is used to start a heavy earth moving
Б С	Opposed engine		engines?
D	Radial engine	Α	Hand cranking
		В	Electric motor cranking
4	Which type of engine has more engine	С	Compressed air cranking
	speed and more combustion pressure?	D	Gasoline engine cranking
Α	Radial engine	13	Which is the engine adopts hand cranking?
В	'V' engine	Α	Small engine
С	Opposed engine	в	LMV engine
D	Inline engine	С	Heavy vehicles
5	Which engine is more economical and	D	Stationary engine
	compact?	14	Which is the most preferred staring system in
Α	Radial engine		LMV?
в	Opposed engine	А	Hand cranking
С	'V' engine	В	Compressed air cranking
D	Inline engine	c	Gasoline engine cranking
6	Which is the high fuel efficient engine?	D	Electric motor cranking
Ă	Opposed engine		
R	'V' engine		
c	Radial engine		
D	Inline engine		
7	Which is the engine also called as constant		
	pressure cycle engine?		
A	Otto cycle		
B	Diesel cycle		
C	Dual cycle		
D	Rankave cycle		
8	What is called the distance between centre		
	of the crank pin to the centre of the main		
	journal?		
Α	Stroke		
В	Cycle		
С	Throw		
D	Efficiency		

# Module 1 : Diesel Engine Overview - Key paper

## Questions: Level 1

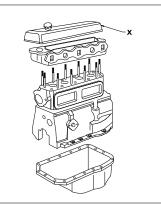
SL.No	Key
1	A B C D
2 3 4	В
3	С
4	D
5	А
6	А
7	A A A C B
8	А
9	А
10	С
11	В
12	А
13	B C D
14	С
15	D
16	А
17	С
18	С
19	В
20	В

SL.No	Key
1	В
2	D
3	D
4	А
5	С
6	С
7	В
8	С
9	А
10	А
11	А
12	D
13	А
14	D

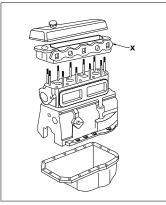
# Mechanic Diesel 2<sup>nd</sup> Semester - Module 2 : Diesel Engine components

## **Questions: Level 1**

- 1 What is the material of cylinder block?
- A Cast iron
- B Bronze
- C Brass
- D Zinc alloy
- 2 What is the name of the part marked as 'x'?

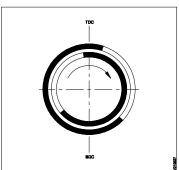


- A Valve door cover
- B Cylinder head
- C Engine block
- D Oil pan
- **3** What is the name of the part marked as 'x'?

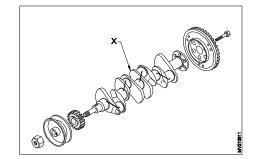


- A Valve door cover
- B Cylinder head
- **C** Engine block
- D Oil pan

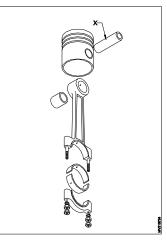
4 What is the name of the diagram?



- A Injection timing
- B Port timing
- **C** Valve timing
- **D** Ignition timing
- **5** What is the name of the part marked as 'x'?



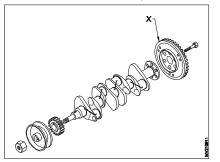
- A Crank pin
- B Crank arm
- C Balancing weight
- D Main journal
- 6 What is the name of the part marked as 'X'?



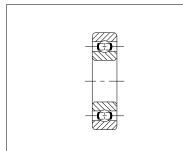
- A Gudgeon pin
- B King pin
- **C** Connecting rod
- D Piston pin hole



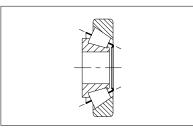
- A Nickel chromium steel
- B Cast iron
- C HSS
- D Bronze
- 8 What is the name of the part marked as 'X'?



- A Drive product
- B Vibration damper
- C Fan pulley
- D Fly wheel
- **9** What is the material used to produce crank shaft?
- A Chromium vanadium nickel steel
- B High speed steel
- C Cast iron
- D Wrought iron
- 10 What is the name of the bearing?

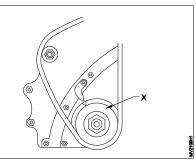


- A Ball bearing
- B Roller bearing
- **C** Needle bearing
- D Tappet roller bearing
- **11** What is the name of the bearing?

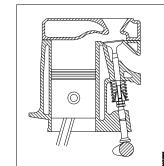


- A Ball bearing
- **B** Roller bearing
- **C** Needle bearing
- **D** Tapper roller bearing

- **12** What is the name the portion below the piston boss?
- A Land of the piston
- B Ring section of the piston
- **C** Crown of the piston
- **D** Skirt of the piston
- **13** Which part is connect the piston with crank pin?
- A Push rod
- B Connecting rod
- C Cam Shaft
- D Crank Shaft
- 14 What is the name of part marked as 'X'?

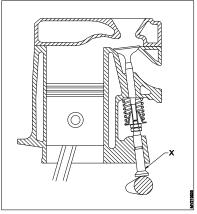


- A Alternator pully
- B Water pump pully
- **C** Crank shaft pully
- D Dynamo pully
- **15** Which tool used to remove the crank shaft pully?
- A Double and spanner
- B Ring spanner
- **C** Pipe wrench
- D Puller
- 16 What is the material of inlet valve?
- A Nickel steel alloy
- B Aluminium alloy
- C Copper alloy
- D Chromium alloy
- 17 What is the nameof the valve mechanism?

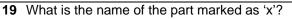


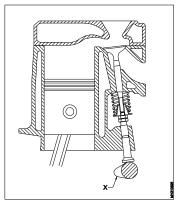
- A Over head valve
- B Side head valve
- **C** Rotary valve
- D Reed valve

**18** What is the name of the part marked as 'x'?

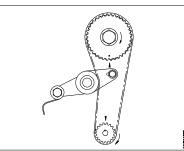


- A Cam lobe
- B Tappet
- C Valve seat
- D Rocker arm



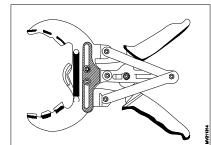


- A Cam lobe
- B Tappet
- C Valve seat
- D Rocker arm
- 20 What is the material of cam shaft?
- A Forged alloy steel
- B Copper alloy
- **C** Aluminium alloy
- D Zinc alloy
- 21 What is the name of the drive?



- A Belt drive
- B Chain drive
- C Rope drive
- D Gear drive

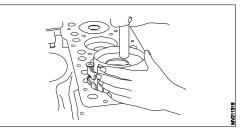
22 What is the name of the tool?



- A Torque wrench
- **B** Piston ring compressor
- **C** Piston ring expander
- D Circlip player
- **23** Which measuring instrument used to check the fly wheel face out?
- A Dial indicator
- **B** Compression gauge
- **C** Outside micrometer
- D Feeler gauge
- 24 What is the name of the tool?



- A Dial type torque wrench
- **B** Scale type torque wrench
- **C** Ratchet type torque wrench
- **D** Torsion has type torque wrench
- 25 What is the name of the tool?



- A Torque wrench
- B Piston ring expander
- **C** Piston ring compressor
- D Circlip player
- 26 Which instrument is used to check the leakage of the cylinder?
- A Compression gauge
- B Dial gauge
- C Vacuum gauge
- **D** Wire gauge

27	Which instrument is used to check the
	tappet clearance?

- A Depth gauge
- B Pitch gauge
- **C** Feeler gauge
- **D** Wire gauge
- **28** What is the measuring instrument used to find the diameter of piston
- A Inside micrometer
- B Depth micrometer
- **C** Outside micrometer
- **D** Three point internal micrometer
- **29** Which tool is used to measure the diameter of the crank shaft main journal?
- A Inside micrometer
- B Outside micrometer
- **C** Three point internal micrometer
- **D** Master ring gauge

Questions Level 2       9       Which is connected with piston through piston pin?         1       Which is connected with piston through piston pin?       B         A       Gudgeon pin       B         2       Cam shaft       D         2       Which is joining piston and connecting rod?       A         3       Rocker arm       B         4       Gudgeon pin       B         5       Rocker arm       C         6       Gudgeon pin       B         7       Sudgeon pin       B         8       King pin       C         7       Connecting rod       D         9       Which is the key element in converting reciprocating motion in to rotary motion?       C         9       Connecting rod       D         9       Cam shaft       D         9       Connecting rod       D         9       Cam shaft       D         9       Cam shaft       D         9       Which is the key element in converting reciprocating motion in to rotary motion?       C         10       Cam shaft       D         9       What is the type of hardening done on crank shaft?       A         10       Cam shaft			ı —	
1       Which is connected with piston through piston pin?       A       Ball bearing         3       Gudgeon pin       B       Roller bearing         2       Which is joining piston and connecting rod?       A       Ball bearing         3       Which is joining piston and connecting rod?       A       Ball bearing         4       Which is joining piston and connecting rod?       A       Ball bearing         5       Which is transferring energy for the piston to crankshaft?       C       Needle bearing         6       Gudgeon pin       D       Taper roller bearing         7       Which is transferring energy for the piston to crankshaft?       A       Connecting rod         7       Gudgeon pin       C       D       Gear boxes         8       King pin       C       D       Gear boxes         9       Gudgeon pin       C       D       Liner wormout         9       Caran shaft       P       Nat is the key element in converting         9       Caran shaft       D       Liner wormout       B       Piston mout         9       Caran shaft       P       Needle bearing       D       Liner wormout       D         9       Caran shaft       P       Needle bearing	Qu	estions Level 2	9	
piston pin?BRoller bearingAGudgeon pinTaper roller bearing2Which is joining piston and connecting rod?A3Which is joining piston and connecting rod?B4Gudgeon pinB5Rocker armD7Cam shaftD7King pinC3Which is transferring energy for the piston to crankshaft?D6Gudgeon pinGudgeon pin8King pinC7Carn shaftD9Carn shaftD9CardeningC9CardeningD9Surface hardeningD9Surface hardening9Surface hardening9Surface hardening9Nati is the load taken by the roller bearing?10Which is are hardening11Whet is the load taken by taper roller bearing12What is the load taken by taper roller bearing13What is the load taken by taper roller bearing14Which load taken by taper roller bearing15What is the load taken by taper roller bearing <t< th=""><th>1</th><th>Which is connected with niston through</th><th>•</th><th></th></t<>	1	Which is connected with niston through	•	
A       Gudgeon pin         B       Connecting rod         C       Cam shaft         D       Rocker arm         2       Which is joining piston and connecting rod?         A       Gudgeon pin         B       Rocker arm         C       Cam shaft         D       King pin         3       Which is transferring energy for the piston to crankshaft?         A       Gudgeon pin         B       King pin         C       Cam shaft         4       Which is transferring energy for the piston to crankshaft?         A       Gudgeon pin         B       King pin         C       Cam shaft         4       Which is the key element in converting reciprocating motion in to rotary motion?         A       Connecting rod         B       Gudgeon pin         C       Cime shaft         5       What is the type of hardening done on crant shaft?         A       Induction hardening         B       Case hardening         C       Surface hardening         B       Surface hardening         C       Needle bearing         G       Which load taken by theroller bearing? <th></th> <th></th> <th></th> <th>-</th>				-
B       Connecting rod         C       Cam shaft         D       Rocker arm         2       Which is joining piston and connecting rod?         A       Gudgeon pin         B       Rocker arm         C       Cam shaft         D       King pin         3       Which is transferring energy for the piston to crankshaft?         A       Gudgeon pin         B       King pin         C       Connecting rod         D       Cam shaft         A       Gudgeon pin         B       King pin         C       Connecting rod         D       Cam shaft         4       Which is the key element in converting reciprocating motion in to rotary motion?         A       Connecting rod         B       Gudgeon pin         C       Subgeon pin         C       King pin         D       Cam shaft         A       Piston mouton         B       Gudgeon pin         C       King pin         D       Cam shaft         A       Needle bearing         B       Gudgeon pin         C       Liner wormout <t< th=""><th></th><th></th><th></th><th>-</th></t<>				-
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<ul> <li>6 Which load taken by the roller bearing?</li> <li>A Radial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>7 What is the load taken by taper roller bearing?</li> <li>A Radial load</li> <li>7 What is the load taken by taper roller bearing?</li> <li>A Radial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>B Which is the bearing used in differential and wheel of a heavy vehicles?</li> <li>A Ball bearing</li> <li>B Roller bearing</li> <li>C Needle bearing</li> </ul>	С	Flame hardening		piston?
<ul> <li>A Radial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>7 What is the load taken by taper roller bearing?</li> <li>A Radial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>B Which is the bearing used in differential and wheel of a heavy vehicles?</li> <li>A Ball bearing</li> <li>B Roller bearing</li> <li>C Needle bearing</li> <li< th=""><th>D</th><th>Surface hardening</th><th>Α</th><th>Above the oil ring in piston</th></li<></ul>	D	Surface hardening	Α	Above the oil ring in piston
<ul> <li>A Radial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>7 What is the load taken by taper roller bearing?</li> <li>A Radial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>B Which is the bearing used in differential and wheel of a heavy vehicles?</li> <li>A Ball bearing</li> <li>B Roller bearing</li> <li>C Needle bearing</li> <li< th=""><th>6</th><th>Which load taken by the roller bearing?</th><th>в</th><th>Bottom of the piston skirt</th></li<></ul>	6	Which load taken by the roller bearing?	в	Bottom of the piston skirt
CThrust loadbottom of skirtDRadial and axial load15What is the load taken by taper roller bearing?ARadial load15What is the first step in removal method of fly wheel?ARadial loadBUnlock the lock plate/wireBAxial loadCLock the fly wheel with wooden pieceCThrust loadCLock the fly wheel ringDRadial and axial load16Where the fly wheel is fitted in the engine?ABall bearingBCrank shaftBRoller bearingCRocker arm shaftCNeedle bearingDPrimary shaft	Α	Radial load	С	Piston between oil ring and piston pin
CThrust loadbottom of skirtDRadial and axial load15What is the load taken by taper roller bearing?ARadial load15What is the first step in removal method of fly wheel?ARadial loadBUnlock the lock plate/wireBAxial loadCLock the fly wheel with wooden pieceCThrust loadCLock the fly wheel ringDRadial and axial load16Where the fly wheel is fitted in the engine?ABall bearingBCrank shaftBRoller bearingCRocker arm shaftCNeedle bearingDPrimary shaft	в	Axial load	D	Connecting rod between piston pin and
<ul> <li>7 What is the load taken by taper roller bearing?</li> <li>A Radial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>8 Which is the bearing used in differential and wheel of a heavy vehicles?</li> <li>A Ball bearing</li> <li>B Roller bearing</li> <li>C Needle bearing</li> </ul>	С	Thrust load		
<ul> <li>7 What is the load taken by taper roller bearing?</li> <li>A Radial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>8 Which is the bearing used in differential and wheel of a heavy vehicles?</li> <li>A Ball bearing</li> <li>B Roller bearing</li> <li>C Needle bearing</li> </ul>	D	Radial and axial load	15	What is the first step in removal method of
<ul> <li>bearing?</li> <li>A Radial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>8 Which is the bearing used in differential and wheel of a heavy vehicles?</li> <li>A Ball bearing</li> <li>B Roller bearing</li> <li>C Needle bearing</li> </ul>				·
<ul> <li>A Radial load</li> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>8 Which is the bearing used in differential and wheel of a heavy vehicles?</li> <li>A Ball bearing</li> <li>B Roller bearing</li> <li>C Needle bearing</li> <li>B Unscrew the fastening bolts</li> <li>C Lock the fly wheel with wooden piece</li> <li>D Remove the fly wheel ring</li> <li>16 Where the fly wheel is fitted in the engine?</li> <li>A Cam shaft</li> <li>B Crank shaft</li> <li>C Rocker arm shaft</li> <li>D Primary shaft</li> </ul>	•		Δ	-
<ul> <li>B Axial load</li> <li>C Thrust load</li> <li>D Radial and axial load</li> <li>8 Which is the bearing used in differential and wheel of a heavy vehicles?</li> <li>A Ball bearing</li> <li>B Roller bearing</li> <li>C Lock the fly wheel with wooden piece</li> <li>D Remove the fly wheel ring</li> <li>16 Where the fly wheel is fitted in the engine?</li> <li>A Cam shaft</li> <li>B Crank shaft</li> <li>C Rocker arm shaft</li> <li>D Primary shaft</li> </ul>	Δ	•		•
CThrust loadDRemove the fly wheel ringDRadial and axial load16Where the fly wheel is fitted in the engine?8Which is the bearing used in differential and wheel of a heavy vehicles?ACam shaftABall bearingBCrank shaftBRoller bearingCRocker arm shaftCNeedle bearingDPrimary shaft				-
D       Radial and axial load         8       Which is the bearing used in differential and wheel of a heavy vehicles?         A       Ball bearing         B       Roller bearing         C       Needle bearing				
<ul> <li>8 Which is the bearing used in differential and wheel of a heavy vehicles?</li> <li>A Ball bearing</li> <li>B Roller bearing</li> <li>C Needle bearing</li> </ul>				
wheel of a heavy vehicles?BCrank shaftABall bearingCRocker arm shaftBRoller bearingDPrimary shaftCNeedle bearingFF				
ABall bearingCRocker arm shaftBRoller bearingDPrimary shaftCNeedle bearingCRocker arm shaft	8	-		
B     Roller bearing       C     Needle bearing         D     Primary shaft	_	-		
C Needle bearing		-		
		-	D	Primary shaft
D Taper roller bearing	С	Needle bearing		
	D	Taper roller bearing		

		1	
17	Which valve allows one direction flow only?	25	What is ovality of a bore?
A	Poppet valve	A	Difference in dia measured top to bottom
B	Rotary valve	В	Difference in dia thrust to non thrust side of
C	Reed valve		cylinder
D	Sleeve valve	C	Difference in dia measured only at top
18	What is the term used to refer when a valve	D	Difference in dia measured only at bottom
	open before TDC?	26	When it is required to coincide the mark with
Α	Lead		timing gears?
В	Lag	Α	During assembling water pump
C	Over lap	B	During assembling oil pump
D	Retard	C	During assembling cam shaft
19	What is the term used to refer when a valve	D	During assembling radiator
	closes after BDC?	27	Which gauge used to measure the cylinder
A	Lead		bore wearness?
В	Advance	Α	Compression gauge
С	Lag	В	Vacuum gauge
D	Over lap	С	Dial gauge
20	What is the term used to refer when both	D	Depth gauge
	valves open position?	28	What is the purpose of the timing chain?
Α	Lead	Α	To connect water pump pully
В	Lang	В	To connect alternator
С	Overlap	С	To connect crank and cam shaft gear
D	Advance	D	To connect A/C compressor
21	Which is used to convert rotary into	29	What is the purpose of the fly wheel timing
	reciprocating motion?		mark?
Α	Cam Shaft	Α	To coincide the gears
В	Connecting rod	В	To set the engine timing
C	Rocker arm	C	To set the F.I.P timing
D	Main shaft	D	To set the valve clearance
22	Which is the drive source of a cam shaft?		
A	Crank Shaft		
В	Fly wheel		
C	Self motor		
D	Gear box		
23	What is the speed ratio cam shaft to crank		
•	shaft?		
A	Half		
B C	Equal Double		
D			
	Triple		
24 ^	Which tool is required to remove the valves?		
A B	Torque wrench Valve spring lifter		
Б С	Box spanner		
D	Scraper		
		I	

l

Questions: Level 1

SL.No	Key
1	A
2	A
3	В
4	С
2 3 4 5 6 7	В
6	A
7	A
8	D
9	A
10	A
11	D
12	D
13	В
14	С
15	D
11 12 13 14 15 16	A
17	В
18	В
19	Α
20	А
21	А
22	С
23	Α
24	В
25	С
26	A B C B A A D A D A D D B C D A B B C D A B B A A A C C A B C C C C C
17 18 19 20 21 22 23 24 25 26 27 28	
	C B
29	В

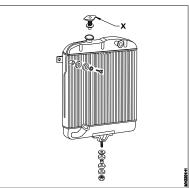
SL.No	Key
1	В
2	A
3	С
4	A
2 3 4 5 6 7	А
6	D
7	D
8	D
9	В
10	A
11	A
12	С
13	D
14	A
12 13 14 15 16	A
16	В
17	С
18	А
19	С
20	С
21	А
21 22 23 24	А
23	А
	В
25	B         A         C         A         D         D         B         A         C         D         B         A         C         D         A         C         A         C         A         C         A         B         C         A         B         C         A         B         C <td< td=""></td<>
26 27	С
27	С
28	С
29	В

## Mechanic Diesel 2<sup>nd</sup> Semester - Module 3 : Cooling and Lubricating System

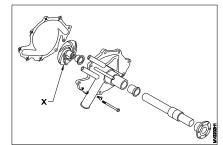
#### Questions: Level 1

- 1 In which type of cooling system used fins on the cylinder head?
- A Oil cooling
- B Water cooling
- C Liquid cooling
- **D** Air cooling
- 2 Which part helps to decipate the heat in air cooling engine?
- A Engine piston
- B Engine crank shaft
- C Exhaust pipe
- D Cylinder and head fins
- 3 In which types of cooling system's rate of cooling is very low?
- A Thermo siphon system
- **B** Air cooling system
- C Forced feed system
- **D** Pump circulation system
- 4 Which part is forced to circulate the water in forced feed engine cooling system?
- A Pump
- B Thermostat
- C Density of water
- D Water jacket
- **5** Which part prevent leakage of water in the water pump?
- A Impeller
- **B** Bearing
- C Seal
- D Pully
- 6 Where the water in cooling system?
- A Radiator upper tank
- **B** Radiator lower tank
- C Engine water jacket
- **D** Expansion tank
- 7 Where is the thermostat valve fitted in pressurised cooling system?
- A Water outlet of water pump
- B Water outlet of radiator
- **C** Water outlet of water jacket
- D Water outlet of cylinder head

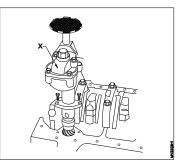
8 What is the name of the part marked as 'x'?



- A Radiator upper tank
- B Radiator lower tank
- C Radiator drain plug
- D Radiator cap
- **9** What is the name of the part marked as 'x'?



- A Water pump pully
- B Water pump impeller
- C Water pump housing
- **D** Water pump shaft
- **10** What is the name of the assembly marked as 'X'?



- A Water pump
- B Hydraulic pump
- **C** Fuel pump
- **D** Oil pump

11 What is the name of the part marked as 'x'? 16 Which part of the engine marked as 'x'? A Oil pump B Water pump **C** Oil pump strainer Α Suction pump **D** Hydraulic pump Oil filter В 12 What is the name of the part marked as 'x'? С Oil pump **D** Oil strainer 17 Which part drive oil pump? A Crank Shaft B Cam Shaft C Crank pully **D** Timing gears **18** Which part of the crank shaft flow oil to crank pin? A Crank web B Crank shaft thrust bearing A Air filter **C** Crank shaft main journal B Oil filter **D** Crank pully C Water filter **19** Which device suckes oil from oil sump? **D** Fuel filter A Strainer **13** Which is the properties of a lubricant? Suction pipe В A Boiling temperature should be low Pump С B Should develop foam Filter D C Oil viscosity should not be same in hot and cold condition **D** Oil viscosity should be suit the operating conditions **14** Which lubrication system used separate oil tank? A Wet sump lubrication **B** Splash lubrication C Petrol-oil lubrication D Dry sump lubrication **15** Which type of lubrication system used in two stroke engine? A Dry sump lubrication B Wet sump lubrication C Petrol-oil lubrication **D** Splash lubrication

		. —	
Qu	estions Level 2	8	Which method is used in radiator reverse
4	Whore the motal fine are provided in the cir	•	flushing cleaning?
1	Where the metal fins are provided in the air cooled engine?	A B	Flushing water with air (gun) pressure Flushing water with engine oil
۸	0	В С	5
A	Cylinder and head		Flushing water with coolant oil
B	Exhaust pipe	D	Flushing water with soap oil
C	Valve door	9	Where is the oil cooler fitted in the engine?
D	Intake manifold	A	Engine block
2	How the water circulation is obtained in	В	Cylinder head
_	thermosyphon system?	С	Exhaust manifold
A	By forced feed of water	D	Oil sump
В	By density of water of hot and cold water	10	What is the main purpose of the lubricant?
C	By gravity of water	Α	Minimise the friction
D	By water jackets	В	Increase the friction
3	What is the effect of the water level falls	С	Increase the wearness
	down in thermo syphon system?	D	Increase the noise
Α	Circulation continue	11	Which is related to lubrication system?
В	Circulation low	Α	Provide a cushioning effect to oil filter
С	Circulation discontinue	в	Increase the wear and tear of the moving
D	Circulation high		parts
4	How the water pump get drive in pump	С	Increase the blow by gases by providing an
	circulation cooling system?		oil
Α	By belt	D	Minimise the wear and tear of the moving
В	By gear		parts
С	By chain		
D	By coupling		
5	Which condition thermostat valve open?		
Α	Low temperature of engine		
В	High temperature of engine		
С	Operating temperature of engine		
D	Freezing temperature of engine		
6	Which is related to radiator removing		
	procedure?		
Α	Top up water in radiator		
В	Disconnect the all connections with radiator		
С	Connect the top water hose		
D	Connect the bottom water hose		
7	What is the name of this cleaning method?		
	ENGINE AR WATER		
Α	Pressure flushing system		
В	Reverse flushing system		
c	Engine cooling system		
D	Water draining system		
_			

- 1 Which method used to descale the water passages in the engine block?
- A By injecting water solvent
- **B** By injecting oil solvent
- **C** By injecting fresh air
- **D** By cleaning tools
- 2 How to check the damaged radiator core tubes?
- A Check visually
- **B** Check with special tools
- **C** Check with computer
- **D** Check with bore dial gauge

# Module 3 : Cooling and Lubricating System - Key paper

## Questions: Level 1

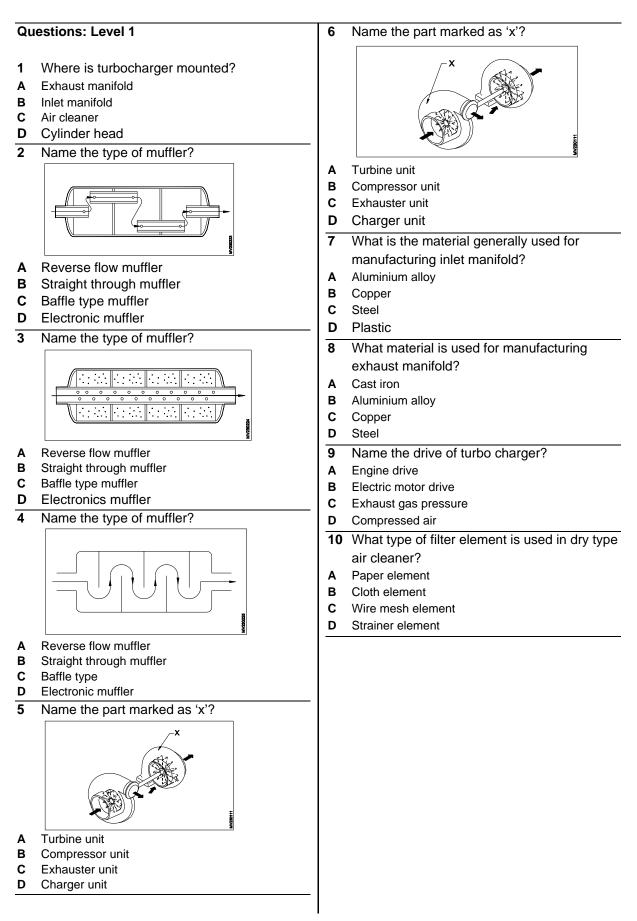
## Questions: Level 2

SL.No	Key
1	D
2 3 4 5 6	D D
3	A A C B D D
4	Α
5	С
6	В
7	D
8	D
9	В
10	B D C
11	С
12	B
13	D
14	D
15	С
16	C C
17	В
18	C C
19	С

SL.No	Key
1	A
2	В
3	С
4	А
5	С
6	В
7	В
8	A
9	A
10	A
11	D

SL.No	Кеу
1	А
2	А

# Mechanic Diesel 2<sup>nd</sup> Semester - Module 4 : Intake and Exhaust system



- 1 Where the turbo charger compressor housing outlet connected?
- A Connected to air cleaner
- B Connected to inlet-manifold
- C Connected to exhaust manifold
- D Connected to oil filter
- 2 During engine back fire, which act as a flame arrester?
- A Oil filter
- B Fuel filter
- **C** Air filter
- D Muffler
- 3 Which type of muffler produces anti noise without restricting the exhaust flow in a silencer?
- A Baffle type
- B Electronic type
- C Resonance type
- D Reverse flow type
- 4 Which type of muffler is fitted with sensors, microphone and speakers?
- A Baffle type muffler
- **B** Reverse flow type muffler
- **C** Electronics type muffler
- D Straight through muffler
- **5** What is the purpose of muffler in exhaust system?
- A Reduce the heat
- B Reduce the noise
- **C** Reduce the vibration
- **D** To filter exhaust gases
- 6 Name the drive of impeller type exhauster?
- A Auxiliary drive shaft
- B Electric motor drive
- **C** Exhaust gas pressure
- D Compressed air
- 7 Which helps engine at high altitudes where the density of air is less?
- A Air cleaner
- B Vane type exhauster
- **C** Impeller type exhauster
- **D** Turbo charger

- 1 What is the reason for decrease the volumetric efficiency in the exhaust system?
- A Low noise
- B High temperature
- **C** Excessive back pressure
- **D** Low temperature

# Module 4 : Intake and Exhaust system - Key paper

## Questions: Level 1

## Questions: Level 2

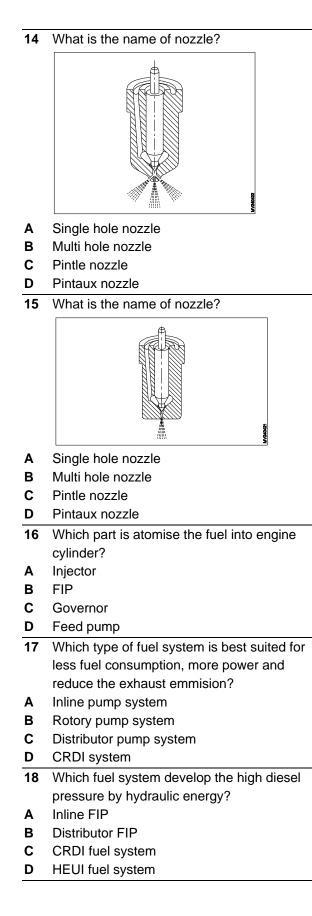
SL.No	Key
1	А
2	А
3	В
4	С
5	A
6	В
7	А
8	А
9	С
10	А

SL.No	Кеу
1	В
2	С
3	В
4	С
5	В
6	А
7	D

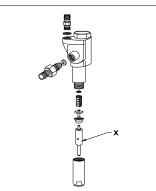
SL.No	Key
1	С

# Mechanic Diesel - 1<sup>st</sup> Semester - Module 5 : Diesel Fuel System

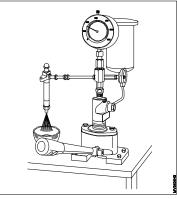
Que	estions: Level 1	8	Which type of pump ensures in built and
Qu		Ŭ	uniform delivery to all injectors in diesel
1	Which part build up fuel injection pressure in		engine?
•	fuel injector?	Α	Jerk type pump
Α	Solenoid	В	In line pump
В	Regulator	c	Rotary type pump
c	Common rail	D	Servo type pump
D	Fuel pump	9	What is the name of the governor in which
2	How the CRDI injectors pressure control	3	the control rack connected with counter
2	valve operated?		weight floating lever?
Α	Mechanically	Α	Mechanical governor
В	Electronically	В	Pneumatic governor
C	Manually	C	Hydraulic governor
D	Hydraulic	D	Servo governor
3	Which electronic unit gives signal to operate	10	Which fuel related with cetane number?
3	IAC valve?	A	Petrol
Α	ECM	B	Diesel
B	EDU	C	Coal
Б С	Solenoid		Kerosene
D	SCV		
			Where the diesel fuel is obtained?
4	Where is the pressure discharge valve	A	
•	fitted in CRDI fuel system?	B	Vegetable oil
A	Common rail	C	Animal oil
B C	Fuel pump Injectors		Synthethic oil
D	Fuel filter	12	Which fuel pipe line is provided between
5		Α	fuel filter and injectors? Suction pipe
A	How many fuel chamber's are in HEUI? One	B	Pressure pipe
В	Two	C	Vacuum pipe
Б С	Three	D	Over flow pipe
D	Four		
		13	What is the name of nozzle?
6	Which is develop diesel pressure in the		
٨	CRDI engine ECM		
A B	LOM Injection		
Б С	Fuel tank		
D	High pressure pump		
7	How much maximum pressure, develops by		
1			
۸	high pressuer diesel pump in CRDI engine 500 Kg/cm <sup>2</sup>		
A B	800 Kg/cm <sup>2</sup>	•	Single hole nozzle
Б С	2000 Kg/cm <sup>2</sup>	A	Single hole hozzle Multi hole nozzle
	1600 Kg/cm <sup>2</sup>	B C	
D			Delay nozzle
		<u>D</u>	Pintle nozzle



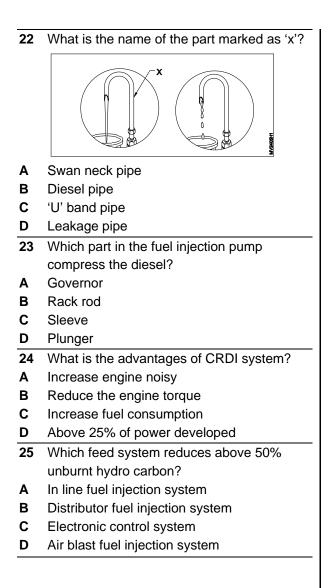
- **19** What is the expansion of HEUI?
- A Hydraulically actuated electronically controlled unit injector
- **B** Hydraulically actuated electrically controlled unit injector
- **C** Hydro-electric controlled unit injector
- D Hydrolic effective controlled unit injector
- **20** What is the name of the part marked as 'x'?



- A Nozzle
- B Nozzle holder
- **C** Spindle
- D Injector body
- 21 What is the name of equipment?



- A FIP tester
- B Injector tester
- C Pump tester
- D Compression tester



Qu	estions: Level 2	9	What is the purpose over flow valve in fuel
Qu		3	filters
1	Which electronic device controls the engine	Α	To supply more fuel to filter
•	system?	В	To send back excess diesel to fuel tank
Α	Regulator	c	To supply clean diesel
В	Ecm	D	To take the leaking fuel
c	Fuse	10	Why baffles are provided in the fuel tank?
D	Switch	A	Minimize the slashing of fuel in the tank
2	In CRDI engine fuel system, where the	В	To strengthen the fuel tank
-	excessive fuel return?	c	To make chambers in the fuel tank
Α	Reside in the rail itself	D	To make square and lengthy fuel tank
В	Return to high pressure pump	<u>-</u> 11	Why an auxillary spray hole provided in the
c	Return to the fuel tank		pintaux nozzle?
D	Return to fuel filter	Α	To assist easy starting under cold condition
3	What is the function of heater plug?	В	To assist stop under cold condition
A	Warm up fuel pump	c	To provide rich fuel under cold condition
В	Warm up combustion chamber	D	To provide very less fuel supply
c	Warm up injector	12	Which nozzle having an auxillary spray hole
D	Warm up valves		with main hole?
4	Why fuel filter is essential in diesel engine?	Α	Single hole nozzle
A	Increase the power	В	Multi hole nozzle
В	Prevent dirty smoke	c	Pintle nozzle
С	Easy starting	D	Pintaux nozzle
D	Mirror polishing finish in nozzle and FIP	13	Which type of fuel system has high pressure
5	How the pressure, is maintaining in the high		oil pump in diesel engine?
-	pressure pipe line of FIP?	Α	Inline FIP
Α	Control rack	в	Rotary FIP
в	Delivery valve	С	CRDI fuel system
С	Barrel	D	HEUI fuel system
D	Plunger	14	Which is control the minimum and maximum
6	How much maximum fuel pressure		speed of the diesel engine?
	developed in fuel injection pump?	Α	FIP
Α	100 to 200 Kgf/cm <sup>2</sup>	в	Governor
в	200 to 300 Kgf/cm <sup>2</sup>	С	Injector
С	300 to 400 Kgf/cm <sup>2</sup>	D	Feed pump
D	400 to 700 Kgf/cm <sup>2</sup>	15	How much time taken to give signals to
7	How the quantity of fuel delivery vary in		ECM after ignition switch on?
	running diesel engine?	Α	One second
Α	By plunger	В	Two second
в	By control sleeve	С	Three second
С	By control rack	D	Four second
D	By injection		
8	What is the purpose of glow plug in pre-		
	combustion chamber in diesel engine?		
Α	Completing combustion		
В	Delaying combustion		
С	Advance combustion		
D	Initiating combustion		

- 1 What is the effect of detonation occurs in diesel engine?
- **A** Knocking sound in engine
- **B** More engine power
- **C** High engine speed
- **D** Suddenly stop the engine

# Module 5 : Diesel Fuel System - Key paper

## Questions: Level 1

## Questions: Level 2

SL.No	Кеу
1	A
2	В
3	A
3 4 5 6 7	A
5	В
6	D
7	C
8	C
9 10	A
10	В
11	A
12	D
13	D
14	В
15	А
16	А
17	D
18	D
19	А
20	А
21	В
22 23	A
23	A         B         A         B         D         C         A         B         D         C         A         B         A         D         D         D         A         D         A         A         D         A         A         D         A         D         C
24 25	D
25	C

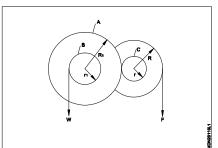
Key
В
С
В
В
В
D
С
D
В
A
A
D
С
В
В

SL.No	Key
1	А

# Mechanic Diesel 2<sup>nd</sup> Semester - Module 6 : Marine and Stationary Engine

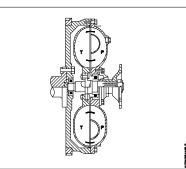
# Questions: Level 11 Where the air starting system is used?A Cars

- B BikesC Trucks
- **D** Marine
- 2 Which automotive engine is cranked through hydraulic system?
- A Trains
- B Trucks
- C Marines
- D Air crafts
- 3 Which system an accumulator is used?
- A Cooling system
- B Starting system
- **C** Electrical system
- D Hydraulic system
- 4 Which is the commonly used cooling medium in the marine engine?
- A Fan
- **B** Coolant
- C Sea water
- D Cooling water
- **5** Which is the fuel system adopted in the modern marine engines?
- A CRDI
- B In-line pump
- C Rotary pump
- D Reciprocating pump
- 6 What is the type of drive?

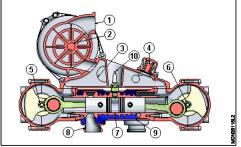


- A Electromagnetic
- **B** Single reduction
- **C** Double reduction
- D Hydraulic fluid coupling

7 Name the type of transmission device?



- A Fluid coupling
- B Electro magnetic coupling
- C Universal coupling
- **D** Flange coupling
- 8 What is the name engine?



- A Double acting engine
- **B** Opposed piston engine
- C Single acting reciprocating engine
- **D** Double acting reciprocating engine

### **Questions Level 2**

- 1 Which automotive engine in propelling by auxiliary engine?
- A Trucks
- B Marines
- C Sports cars
- **D** Stationary engine
- 2 Which is the device used to transmit the rotary motion?
- A Hydraulic jack
- B Hydraulic brake
- C Hydraulic actuator
- D Hydraulic coupling
- **3** Which engine is used sea water cooling, water cooled in marine engine?
- A Aircraft engine
- B Marine engine
- C Heavy vehicle engine
- D Light motor vehicle engine
- 4 How the fluid coupling is termed?
- A Static device
- **B** Aero dynamic device
- C Hydro dynamic device
- D Electro dynamic device
- 5 Which device used to increase the torque?
- A Clutch
- B Engine
- C Flywheel
- D Gear reduction drive

## Module 6 : Marine and Stationary Engine - Key paper

### Questions: Level 1

### Questions: Level 2

SL.No	Key
1	D
2	С
3	В
4	С
5	A
6	С
7	А
8	В

SL.No	Кеу
1	В
2	D
3	В
4	С
5	D

# Mechanic Diesel - 1<sup>st</sup> Semester - Module 7 : Emission Control System

Que	estions: Level 1	8	Which is harm full emission element
<b>~</b> u		Ĭ	produced by an internal combustion engine?
1	Which is the hydro carbon emission	Α	$Co_2 + H_c + H_20$
-	released directly from engine to the	В	$C_0 + H_c + NOx$
	atmosphere	c	$NOx + Co_2 + Ph$
Α	Crank case and exhaust system	D	$Pb + Co_2 + NOx$
В	Fuel tank and carburettor	9	Where the positive crank case ventilation
C	Fuel tank and crank case	ľ	fitted?
D	Fuel tank and exhaust	Α	Muffler and air cleaner
2	Which engine emits more amount of	В	Controller and air cleaner
-	nitrogen oxides (NOx)?	c	Feed pump and air cleaner
Α	Spark ignition engine	D	Engine breather and air cleaner
В	Compressed ignition engine	10	What is the use of catalytic converters?
C	Two stroke engine	A	Control the noise
D	LPG engine	В	Control the emission
3	Which is a green house effect gas?	C	Control the temperature
A	O <sub>2</sub>	D	Control the fuel consumption
в	Co	11	What is the purpose of EGR (Exhaust gas
С	Co <sub>2</sub>		recirculation) valve?
D	N <sub>2</sub>	Α	Reduce NOx
4	Which pollutant is released more from diesel	в	Reduce Co
	engine during weak compression?	С	Reduce Co <sub>2</sub>
Α	Со	D	Reduce So <sub>2</sub>
В	Particulate matter	12	What is the acronym for DPF in exhaust
С	HC		emission system?
D	NOx	Α	Diesel pressure filter
5	Which one is a non pollution gas?	В	Diesel primary filter
Α	Со	С	Diesel particulate filter
В	No	D	Direct particulate filter
С	HC		
D	O <sub>2</sub>		
6	Which is the source of pollutant gases with		
_	hydro carbon?		
A	From fuel tank evaporation		
B	From carburettor evaporation		
C	From crank case blow by		
D	From exhaust system		
7	Which is less harmfull emission elements		
~	after convert by catalytic converter?		
A	$Co_2 + Hc + H_20$		
B C	NOx + Co <sub>2</sub> + Pm H <sub>2</sub> 0 + Co <sub>2</sub> + Nitrogen		
D	$H_20 + CO_2 + NRTOGEN$ Pb + CO <sub>2</sub> + NOx		
U			
		I	

#### **Questions: Level 2** 1 What is the purpose of EVAP canister? to trap the exhaust gas Α В to trap fresh air С to trap the leak off D to trap the fuel vapour 2 Which of the hydro carbon emission released after the combustion of the engine? From fuel tank Α В From carburettor С From crank case blow by From exhaust system D 3 What does the evaporation emission control eliminate? Α Co В $Co_2$ С HC D NOx 4 Which engine uses EVAP canister? Α **Diesel engine** В Petrol engine С LPG engine D **CNG** engine 5 Which is used to absorb fuel vapour in the EVAP canister? Α Banian cloth Cotton roll В С Paper filter D Activated charcoal 6 Name the emission control technique when some amount of gases feed into the intake manifold of a running engine? Α Exhaust gas recirculation В Positive crank case ventilation С Catalytic convention Selective catalytic reduction D 7 What is the purpose of selective catalytic reduction (SCR)? Α Reduce Co<sub>2</sub> Reduce PM В

- C Reduce NOx
- D Reduce HC

#### **Questions: Level 3**

- 1 What is the reason for the emission of particulate matter?
- A Due to complete combustion
- **B** Due to incomplete combustion
- C Due to excess air supplied
- D Due to atmospheric mixture
- 2 How do we achieve near zero emission diesel engine?
- A Combo of PCV and EGR
- B Combo of EGR and SCR
- C Combo of PCV and 3 way catalytic connection
- D Combo of DPF and EGR
- **3** What is the purpose of crank case ventilation?
- A To prevent pressure build up
- **B** To prevent temperature build up
- **C** To increase the blow by gas
- **D** To reduce the combustion leak
- 4 What is positive crank case ventilation?
- **A** Use of back pressure to increase efficiency
- B HC present in blow by drawn out
- **C** HC present in the blow by reused
- D Increase the crank case dilution
- 5 Where EGR valve connected?
- A Exhaust system and intake system
- **B** Crank case and intake system
- **C** Crank case and exhaust system
- D Exhaust system and catalytic converter

# Module 7 : Emission Control System - Key paper

### Questions: Level 1

### Questions: Level 2

Question: Level 3

SL.No	Key
1	A
2	В
3	С
4	В
5	D
6	D
7	С
8	В
9	D
10	В
11	A
12	C

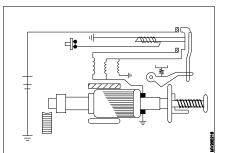
SL.No	Key
1	D
2	D
3	С
4	В
5	D
6	Α
7	С

SL.No	Key
1	В
2	В
3	Α
4	С
5	Α

### Mechanic Diesel - 1<sup>st</sup> Semester - Module 8 : Charging and Starting System

### **Questions: Level 1**

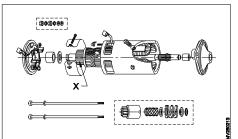
- 1 Which one is strong electro magnetic switch in starting system?
- A Starter switch
- B Solenoid switch
- **C** Ignition switch
- D Starter push switch
- 2 What is the name of the drive mechanism?



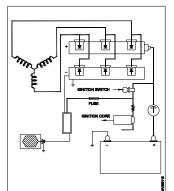
- A Over running clutch drive
- B Bendix drive
- **C** Axial drive
- D Non axial drive
- **3** What is the function of the regulator in an alternator
- A Limits the alternator field current as necessary
- **B** Permits current to flow in one direction only
- C Takes heat from the diodes
- D To increase the current flow
- 4 Which part prevent back flow of current in alternator?
- A Regulator
- B Rotor coil
- C Slip ring
- D Rectifier diode
- **5** Which one is connected to the starter motor shaft?
- A Drive pinion
- B Ring gear
- **C** Drive pulley
- D Drive coupling

6 What is the name of the circuit? יחלחתי Α Charging circuit В Lighting circuit С Ignition circuit D Starting circuit 7 Which one is connected in the circuit between battery and starting motor? Α Starter switch В Solenoid switch С Plunger D Ignition switch 8 What is the name of part marked as 'x'? Ξ Solenoid winding Α В Battery С Plunger D Starting motor

**9** What is the name of the part, marked as 'x'?

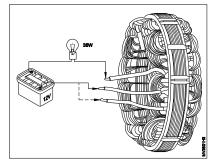


- A Armature
- B Drive pinion
- C Field coil
- D Commutator
- **10** Where the carbon brushes are contact in a starting motor?
- A Armature
- B Armature shaft
- C End cover
- D Commutator
- **11** Which part is produce electricity in a vehicle?
- A Battery
- B Starting motor
- C Alternator
- D Ignition coil
- 12 What is the name of the circuit?



- A Lighting circuit
- B Ignition circuit
- C Starting circuit
- D Charging circuit
- **13** Which is the rotating part of an alternator?
- A Stator winding
- B Rotor winding
- C Yoke
- D Carbon brush

- **14** Which part is used to allow current in only one direction in alternator?
- A Field coil
- **B** Armature
- **C** Voltage regulator
- D Diode
- 15 Which one produces AC supply?
- A Dynamo
- B Alternator
- C Self motor
- D Transformer
- 16 Which one produces DC supply?
- A Dynamo
- **B** Alternator
- **C** Self motor
- **D** Ignition coil
- 17 What is the name of the test carried out?



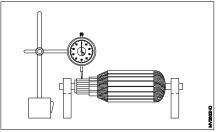
- A Full load test
- B Short circuit test
- **C** Open circuit test
- D No load circuit

Qu	estions: Level 2		
1	Which system is used to the crank the		
	engine?		
Α	Charging system		
в	Lighting system		
С	Starting system		
D	Cooling system		
2	Which is used to turns the engine fly wheel		
-	in starting system?		
Α	Drive pinion		
В	Drive pully		
c	Drive coupling		
D	Drive shaft		
3	Which winding help to produce the magnetic		
Ū	field in starting system?		
Α	Armature winding		
В	Field winding		
c	Solenoid winding		
D	Compound winding		
4	Which one of the component used to		
-	convert AC to DC in an alternator?		
Α	Field coil		
В	Pole pieces		
c	Voltage regulator		
D	Rectifier		
5	How does alternator get drive from engine?		
A	By coupling		
В	By gear		
c	By chain		
D	By belt		
6	Where does slip ring used?		
Α	Dynamo		
в	Alternator		
С	Self motor		
D	Transformer		
7	Where does commutator is used?		
Α	Dynamo		
В	Alternator		
С	Transformer		
П	Ignition coil		

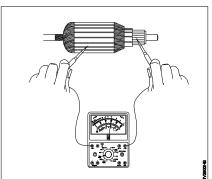
**D** Ignition coil

### **Questions: Level 3**

1 What is the name of the test carried out?

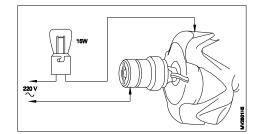


- A Growler test
- B Continuity test
- **C** Insulation test
- D Commutator run out test
- 2 What is the name of test carried out?



- A Insulation test
- **B** Growler test
- **C** Continuity test
- D Open circuit test
- **3** What is the possible cause for no charge when engine is running?
- A Slip ring proper seating
- B Battery with half-charge
- C Defective starting motor
- **D** Defective diode
- 4 Which one of the cause for low voltage output from alternator?
- A Loose connection
- B Loose mountings
- **C** Fused indicator lamp
- D Broken drive belt
- **5** Which one is the possible cause for charges at high rate?
- A Loose mounting
- **B** Blown fuse wire
- C Broken drive belt
- D Voltage regulator winding open

- 6 Which one of the possible cause for alternator noisy?
- A Loose mounting
- B Blown fuse wire
- C Broken drive belt
- **D** Voltage regulator winding open
- 7 What is the name of the test carried out?



- A Full load test
- B No load test
- C Short circuit test
- D Open circuit test

## Module 8 : Charging and Starting System - Key paper

### Questions: Level 1

### Questions: Level 2

Question: Level 3

SL.No	Key
1 2	B C
2	C
3 4 5	A
4	D
5	A
6	D
7	В
8	C D
9	D
10	D C
11	C
12	D
13	В
14	D
15	В
16	A C
17	С

SL.No	Key
1	С
2	A
3	В
4	D
5	D
6	В
7	A

SL.No	Key
1	D
2	С
3	D
4	А
5	D
6	А
7	С

# Mechanic Diesel 2<sup>nd</sup> Semester - Module 9 : Trouble Shooting

Qu	estions: Level 3	8	What is the reason for engine over heating?
		Α	Radiator pressure cap defective
1	What is the effect of tapper and ovality of a	В	Discharged battery
	bore?	С	Clogged fuel tank vent hole
A	Compression loss	D	Excessive valve guide clearance
B	Mis firing	9	What is the reason for engine low power
C	Difficult starting		generation?
D	False valve timing	Α	Weak compression
2	What is the reason for high fuel	B	Defective alternator
	consumption in diesel engine?	С	External leakage of oil
Α	Oil level high	D	Clogged thermostat valve
В	Air cleaner clogged	10	What is the mechanical cause for engine
С	Fuel level in tank is high		does not start?
D	High compression pressure	Α	No air in fuel system
3	What is the reason for engine over heating?	B	Clogged exhaust manifold
Α	Defective starting motor	С	Battery full charge
В	External fuel leak	D	Starter motor engage properly
С	Improper injection timing	11	What is the reason for low oil pressure in
D	Oil pressure high.		engine?
4	What is the mechanical causes for engine	Α	Defective pressure relief valve assembly
	does not start?	В	Defective pressure gauge
Α	Loose fan belt	С	Loose battery clamp
В	Clogged fuel tank vent hole	D	Clogged air cleaner
С	Defective regulator	12	What is the reason for low oil pressure in
D	Battery full charge		engine?
5	What is the mechanical causes engine	Α	Worn out crank and cam shaft bearing
	does not start?	B	Defective injector
Α	Starter motor mounting bolt loose	C	Weak compression
В	Defective alternator	D	Defective battery
С	Defective thermostat valve	13	What is the reason for engine low power
D	Clogged fuel filter		generation?
6	What is the reason for engine over heating?	A	Piston ring wornout
Α	Defective pressure relief valve	B	Defective oil relief valve
В	Clogged silencer	C	Loose fan belt
С	Air in fuel system	D	Defective alternator
D	Water in fuel system	14	What is the reason for high oil consumption?
7	What is the mechanical cause for engine	A	Defective pressure gauge
	does not start?	B	Improper valve timing
Α	Defective oil pump	C	Excessive valve guide clearance
В	Defective starter switch	D	Clogged fuel filter
С	Improper valve timing	15	What is the reason for high oil
D	No water in fuel	_	consumption?
		Α	Defective pressure relief valve
		B	Fuel filter clogged
		C	Improper valve timing
		D	Worn out liner

16	What is the reason for engine over heating?	24	What is the remedy if engine over heats?
A	Clogged fuel filter	A	Top up oil level
B	Fuel leakage	B	Top up fuel level
C	External leakage of oil	C	Top up coolant level
D	Defective thermostat valve	D	Top up electrolyte level
17	What is the reason for high fuel		
	consumption of diesel?		
A	Defective thermostatic valve		
B	Low compression		
C	Loose battery terminals		
D	Water in the fuel system		
18	What is the possible cause of high oil		
_	consumption?		
A	Clogged air cleaner		
B	Clogged fuel filter		
C	Worn out of piston rings		
D	Low oil level		
19	What is the cause of low power generation?		
Α	Clogged oil filter		
B	Clogged fuel filter		
С	Correct injection timing		
D	More supply of fuel		
20	What is the possible cause of low power		
	generation?		
Α	More supply of air		
В	More supply of fuel		
С	Incomplete combustion of fuel		
D	Defective oil filter		
21	What is the possible cause of engine over		
	heating?		
Α	High air draft		
B	High circulation of water		
C	Radiator core blocked		
D	High water level in radiator		
22	What is the possible cause of engine over		
	heating?		
A	High water level		
B	High oil level		
C	Faulty water pump		
D	Faulty injector		
23	What is the possible cause of excessive fuel		
	consumption?		
A	High fuel in tank		
B	Low fuel in tank		
С	High compression		
D	Weak compression		

## Module 9 : Trouble Shooting - Key paper

### **Questions: Level 3**

Key
А
В
С
В
D
В
С
А
А
В
А
А
А
С
D
D
В
С
В
С
С
A B C B D C A A A A A A A C D D D B C C C C C C C C
D
С