Name of the institute:

Candidate name:  
Father’s name:  

Max. Marks – 50 (passing marks – 20)  
Time of examination:  

Marks obtained:  
Date of examination:  

Result:  
Signature of the assessor:  

Duration – 45 mins. (25x2=50 marks)

Choose the correct answer:

1. Which of the following indicates multigrade oil?
   A. Api 50
   B. Sae 30
   C. Sae 20 w-50
   D. Api 50

2. When the brake pedal free play is less than the specified value, then the
   A. Brake drags
   B. Brake fades
   C. Vapor locking occurs in the brake lines
   D. Antilock braking system malfunctions

3. The octane number of compressed natural gas (CNG) is
   A. 100
   B. 90
   C. 110
   D. 120
4. The calorific value of diesel is about
   A. 36.5 mj/kg
   B. 38.5 mj/kg
   C. 42.5 mj/kg
   D. 45.5 mj/kg

5. The calorific value of diesel is about
   A. 36.5 mj/kg
   B. 38.5 mj/kg
   C. 42.5 mj/kg
   D. 45.5 mj/kg

6. The octane rating of petrol commercially available is
   A. 85-95
   B. 100-110
   C. 95-100
   D. 110-125

7. The air resistance to a car at 20 KMPH is \( r \). The air resistance at 40 KMPH will be
   A. \( r \)
   B. \( 3r \)
   C. \( 2r \)
   D. \( 4r \)

8. The octane rating of petrol commercially available is
   A. 85-95
   B. 100-110
   C. 95-100
   D. 110-125

9. The size of engine cylinder is referred in terms of its
   A. Diameter and bore
   B. Displacement and efficiency
   C. Bore and stroke
   D. Bore and length

10. If the engine coolant leaks into the engine oil, then engine oil
    A. Appears milky
    B. Turns black
    C. Becomes foamy
    D. None of these

11. The condition that causes vapor locking in a brake system is
    A. Overheating of the fluid due to frequent brake application
    B. Overcooling of the brakes during high speed driving
    C. Keeping the vehicle without use for an extended period
    D. An excessively high engine speed on a downhill road

12. It is necessary to maintain the valve clearances as they
A. Allow for lengthening of the valves owing to the heat of combustion  
B. Increase the speed at which the valves move up and down  
C. Reduce the resistance to sliding that occurs between the cam and the tappet  
D. Make the crankshaft turn smoothly  

13. The oil pump is driven by the  
A. Crankshaft via drive belt  
B. Crankshaft directly  
C. Camshaft  
D. Alternator shaft  

14. If the air-fuel mixture in a spark ignition engine is too rich, then air-fuel ratio is about  
A. 15:1  
B. 10:1  
C. 13:1  
D. 17:1  

15. In radial tyres is…..?  
A. One ply layer runs diagonally one way and another layer runs diagonally the other way  
B. All plies run parallel to one another and vertical to tyre bead  
C. Inner tubes are always used  
D. None of these  

16. The vehicle ride will be comfortable if  
A. Sprang mass is kept minimum  
B. Unsprung mass is kept minimum  
C. All of these  
D. Vehicle mass is kept minimum  

17. Which of the following symptom is caused as a result of brake disc run out ?  
A. Ineffectiveness of the brakes  
B. Judder during braking  
C. Localized wearing of the brake pads  
D. Rapid wearing of the brake pads  

18. The firing order for an in-line four cylinder i.c. Engine is  
A. 1-2-4-3  
B. 1-2-3-4  
C. 1-3-2-4  
D. 1-3-4-2  

19. The effect of having excess camber is  
A. Hard steering  
B. Too much traction  
C. Uneven tyre wear  
D. Excessive steering alignment torque
20. Internal gears can be made by
   A. Shaping with pinion cutter
   B. Shaping with rack cutter
   C. Hobbling
   D. Milling

21. Gear lapping is an operation
   A. None of these
   B. For gear reconditioning
   C. After heat treatment
   D. Prior to heat treatment

22. The lip angle of a single point tool is usually
   A. 20° to 40°
   B. None of these
   C. 60° to 80°
   D. 40° to 60°

23. If the diameter of the hole is subject to considerable variation, then for locating in jigs and fixtures, the pressure type of locator used is
   A. Cylindrical locator
   B. Conical locator
   C. Diamond pin locator
   D. Vee locator

24. A twist drill is a
   A. End cutting tool
   B. None of these
   C. Front cutting tool
   D. Side cutting tool

25. The anti-knock property of compression ignition engine fuel can be improved by adding
   A. Tetraethyl lead
   B. Trim ethyl pentane
   C. Amyl nitrate
   D. Hexadecane

Signature of the candidate
**MODULAR EMPLOYABLE SKILLS (MES)**
UNDER SKILL DEVELOPMENT INITIATIVE SCHEME (SDIS)
DIRECTORATE GENERAL OF EMPLOYMENT & TRAINING, MINISTRY OF LABOUR & EMPLOYMENT,
GOVERNMENT OF INDIA
ASSESSMENT CONDUCTED BY – GHRP SKILL (INDIA) PVT. LTD.
ACCOUNTING
BANKING AND ACCOUNTING (BAN.101)

Practical

<table>
<thead>
<tr>
<th>Name of the institute :</th>
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<tbody>
<tr>
<td>Candidate name :</td>
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<tr>
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Duration – 2 hours. (6x20 = 120 marks)

**Q1.** Explain the procedure for repairing punctured tyre?

**Q2.** Specify the construction detail of shock absorbers.

**Q3.** Describe the function of Horn Circuit.

**Q4.** Describe the cooling system and its functions, different coolant mixtures and troubles.

**Q5.** Describe the procedure for the lubrication system and its causes.

**Q6.** Procedure to adjust carburetor, do’s and don’ts while servicing carburetor.

Signature of the assessor

<table>
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<tr>
<th>Practical (120 Marks)</th>
<th>Safety (10 Marks)</th>
<th>Cleanliness/Quality (10 Marks)</th>
<th>Aptitude (10 Marks)</th>
<th>Total (150 Marks)</th>
</tr>
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Signature of the candidate

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