CENTRAL BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, ESTABLISHED IN 1952 BY PLANNING COMMISSION, GOVT. OF INDIA

CENTRAL BOARD OF EXAMINATIONS

BSS NATIONAL VOCATIONAL EDUCATION MISSION

AME018-CERTIFICATE IN AUTOMOBILE ENGINEERING

ONE YEAR EXAMINATION NOVEMBER-2025

AME018-01 COMMUNICATIVE ENGLISH AND COMPUTER FUNDAMENTALS

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) One day _____ Old man came to my village.

2) Suresh is sitting _____ Ram and Gopal.

3) Scanner is a _____ Device

4) I waited for _____ hours

5) Mouse is an _____ device

6) The expanded form of MS Word is _____

7) Use _____ to change the settings, both hardware and softw

8) _____ is a folder, stores the deleted files

9) A to Z key are known as _____ keys

10) To draw curved lines _____ is used

11) A sheet can be renamed using _____ facility in Ms Excel

12) I am _____ (eat) food.

13) Consonants are _____ in number

14) Pronouns are used instead of _____

15) Vowels are _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) What is meant by intransitive verb?
2) Define material noun?
3) What is meant by plural number? Example:-
4) What are the types of Gender?
5) What are the types of Articles?
6) What is input and output unit
7) Del Command
8) Explain windows explorer
9) Explain any five functions in MS Excel
10) Noun phrase
11) Decimal
12) Explain 'find', 'replace' and 'go to'.
13) What is Hardware?
14) Define Subject
15) Desk top

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Explain Arithmetic logic unit
2) Explain types of computer
3) Importance of information technology
4) Write short notes on 'macro'
5) Different software and hardware
6) Checking an injured (or) ill child (or) infant
7) Techniques for moving an injured (or) ill person.
8) Define Hybrid computers

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain 'slide presentation creating' in MS Power Point
2) Explain the classification of computer
3) Write about Parts of speech?
4) Explain in detail about articles?
5) Write briefly about MS Excel?

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ONE YEAR EXAMINATION NOVEMBER-2025

AME018-02 FOUR WHEELER MECHANISM

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Turning or twisting effort is known as _____

2) Piston and connecting rod are connected by _____

3) Spark plug gap is measured by _____

4) Firing order of 6 cylinder engine is _____

5) Specific gravity of full charged battery is _____

6) A _____ is a narrow space in the cylindrical air horn.

7) Piston pin is used to connect _____ and _____

8) To engage and disengage to the engine to the transmission _____ is used.

9) _____ and _____ rings are used in a 4-stroke engine piston.

10) IHP - FHP = _____

11) Valve mechanism is operated by _____

12) Bronze is an alloy of _____ and _____

13) In steel _____ / carbon generally used

14) Specific gravity of aluminium is _____

15) Melting point of lead is _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) What do you mean by anti-freeze solution
2) Write the four stroke in sequence in a 4 stroke engine
3) Write the chemically correct mixture ratio in petrol engine.
4) Define BHP
5) Define Torque wrench
6) Define Calorific Value
7) Define Hydrometer
8) Define Feeler gauge
9) Define Engine troque
10) What do you mean by viscosity.
11) Fits
12) Strain
13) Hook's law
14) Brittleness
15) Yield point

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Write the bleeding system in a diesel fuel system
2) Engine Timing
3) Give the material composition of piston
4) What is governor? Why it is used?
5) Draw and label a crank shaft of 4 cylinder engine.
6) Molding sand
7) Spinning
8) Filling

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) List the tools required to set up an automobile work shop
2) Explain the cause of : [i] Starting problem [ii] high oil consumption [iii] Excessive smoke
3) What do you understand by emission control? Name the harmful pollutant. Explain briefly PCV system.
4) Write short notes on : (a) Super charger (b) Catalytic converter (c) Air-cleaner
5) Name the different process of welding. Explain briefly the process of Oxy-acetylene gas welding.

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AME018-03 AUTOMOBILE ELECTRONICS(LMV)

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) T.V. Section for "Refusal by Taxi" is _____

2) Abbreviation of C M V R is _____

3) What do you mean by laden weight _____

4) What do you mean by P. V. D. _____

5) Abbreviation of S T A is _____

6) Specific gravity is measured by _____

7) The distributor is driven by _____

8) Ignition coil is used to _____ voltage.

9) Ammeter is used to measure _____

10) AC can turns DC by _____

11) General spark gap of spark plug is _____

12) Electrolyte is the solution of _____ and _____

13) In starter motor electric energy is converted to _____ Energy.

14) Full forms of T.S.I. lamp is _____

15) Make and break in the primary circuit is achieved by _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Define 4-wheel drive
2) Define Tractor
3) Define Fares
4) Define BHP
5) Define Transport Vehicle
6) Define volumetric efficiency.
7) Define IHP
8) Name the method of fuel injection
9) What do you mean by lean mixture?
10) Define stroke.
11) Define torque.
12) Why stop light is used?
13) What are the meters used in the dash board?
14) State the function of wind screen wiper.
15) What do you mean by semi-conductor?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Driving License
2) Overtaking
3) SAE
4) What do you know about pneumatic governor?
5) How you calculate the BHP of an engine
6) Briefly explain the solenoid switch.
7) How high voltage is generated in an ignition coil?
8) How you maintain spark plug?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Describe the procedure of Registration of vehicle.
2) Explain the procedure of issuing license.
3) A 10cm X 12cm four cylinder, 4 stroke engine running at 2000 r.p.m. has a carburetor venture with a 3 cm throat.Determine the suction at throat, assuming the volumetric efficiency of the engine to be 70 / . Coefficient of air flow is 0.8.
4) Explain briefly the battery coil ignition system.
5) Draw a lay out of starting system. Explain the construction and working of starter motor.

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ONE YEAR EXAMINATION NOVEMBER-2025

AME018-04 AUTOMOBILE CHASSIS

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Vehicle speed is measured by _____

2) Air removing processes from hydraulic brake system is known as _____

3) Without body a complete vehicle is known as _____

4) _____ is used to measure tyre inflation.

5) Tie-rod is found in the _____ system.

6) In _____ gear the gear ratio stands 1:1

7) Clutch plate is fitted in between _____ and _____

8) Tail pinion and crown wheel are engaged in _____

9) Full forms of K.P.I. is _____

10) The purpose of suspension system is to resist _____

11) Drop arm can be seen in the _____ system

12) The purpose of tread in tyre is _____

13) In hydraulic brake pressure is built up by _____

14) When the engine power is transmitted at the front wheel is called _____ vehicle

15) Anchor pin is used in _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) What do you mean by 4-wheel drive vehicle?
2) Name the different types of steering angle.
3) Function of slip joint.
4) How many shaft is used in a gear box?
5) Which grade lubricant is used in the gear box?
6) What is the use of 'U' bolt?
7) What do you mean by 7.50 X16 - 8PR?
8) Name three steering angle.
9) What do you mean by four wheel drive?
10) Why universal joint is used?
11) How engine power is transmitted to the wheel?
12) What is the function of steering?
13) Why shakle pin is used?
14) Lay / counter shaft is found in .....
15) What is the function of chassis frame?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) What is full-floating axle?
2) What do you know about torque converter.
3) How you maintain tyre for long use
4) Draw and explain any one type of shock absorber.
5) What do you know about vacuum brake?
6) Write the working principle of brake master cylinder.
7) Name the different types of steering gear box.
8) Write the advantage of disc brake?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Draw and explain any one type of gear box.
2) Write short notes on: (a). Differential (b) Frame (c) Toe-in
3) Sketch and explain any one type of power steering system.
4) Write short notes on : (a) Cone clutch (b) Slip joint (c) Pressure plate
5) Give a suitable trouble shooting chart of clutch.