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

TTS022-BSS DIPLOMA IN ADVANCED DIESEL TECHNOLOGY

ONE YEAR EXAMINATION NOVEMBER-2025

TTS022-01 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) Raju _____ the tallest in our class

2) Suresh is sitting _____ Ram and Gopal.

3) Brought is _____ verb.

4) I would like to have _____ fruits.

5) The 2nd hard disk of P.C. is called _____

6) The expanded form of MS Word is _____

7) _____ is a copy of the files on the computer typically it is stored o harddisk.(backup)

8) She ran _____ the road

9) _____ are where the text is typed

10) _____ is a folder, stores the deleted files

11) Below the menu bar _____ bar appears

12) Ctrl+X is used to _____

13) _____ is the first computer programmer

14) Who is the father of computer _____

15) CPU stands for _____

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

1) Define kinds of countable Nouns?
2) Degrees of comparison
3) Key board
4) Explain UNIX
5) E-mail use?
6) Write short notes on 'macro'
7) Prepare a leave application to your head of department
8) Adjectives
9) Package
10) Explain Cut, Copy and 'Paste'
11) Define Oar
12) What is Hardware?
13) Explain cut, copy and paste?
14) Short notes on "Kinds of noun"?
15) Informal letter

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

1) Explain few sentences using "am, is, are"?
2) Define kinds of nous?
3) Write short notes on 'macro'
4) Airbrush
5) Write details about Charles Babbage?
6) Explain the Fourth and Fifth generation of computer?
7) Explain Informal letter
8) Verb

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

1) Write a letter to your father asking permission join the N.C.C?
2) Explain how you write a resignation letter
3) Explain 'slide presentation creating' in MS Power Point
4) Prepare an essay on women empowerment
5) Explain about mail merge

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ONE YEAR EXAMINATION NOVEMBER-2025

TTS022-02 OBSERVING SAFETY & PRECAUTIONS

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) Draw and explain various parts of a engine _____

2) _____ is used to control engine speed.

3) _____ measures speed of a car

4) Tyres are of two types namely _____ And _____

5) Brake lining are of two types namely _____ and _____

6) _____ starts a engine

7) Engine speed is measured in terms of _____

8) Diesel is igniteed by _____

9) Petrol is ignited by _____

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

1) Define a pump.
2) What is piston?
3) Explain a radiator.
4) What are types piston and cylinder.
5) Which is connecting rod.
6) What is a crown assembly?
7) Define disc.
8) Define a valve.
9) What is a fuel pump.
10) What is carburetor.

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

1) Explain a mufler.
2) Explain a air cooler.
3) Draw a connecting rod.
4) Explain about AC and DC current
5) Explain about exhaust recycle system.
6) Draw and explain a radiator.
7) Explain types engines.
8) Explain a turbo charger.

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

1) Draw and Explain about a starter motor.
2) Draw and explain crown mechanism.
3) Draw and explain drive system of a car.
4) Draw and explain steps to be followed during oil change.

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TTS022-BSS DIPLOMA IN ADVANCED DIESEL TECHNOLOGY

ONE YEAR EXAMINATION NOVEMBER-2025

TTS022-03 PREPARING FOR ENGINE DISMANTLING

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) _____ is a fuel of diesel engine.

2) _____ is grade of engine oil

3) Cooling of engines are of two types namely _____ And _____

4) Chemical name of coolant is _____

5) _____ protect nut from loosening

6) _____ is used to fasten.

7) Engine performance can be increased by _____

8) Diesel is filtered by _____

9) Petrol is injected by _____

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

1) Define front wheel drive.
2) What is brake?
3) Explain gudgent pin.
4) What are types of brakes.
5) Which filters the inlet air.
6) What is a sensor?
7) Define pressure gauge.
8) Define a guide.
9) What is a temperature gauge.
10) What is speedometer.

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

1) Explain a disc brake.
2) Explain a liner and piston.
3) Draw a hydraulic brake assembly
4) Explain about starter motor
5) Explain about exhaust system.
6) Draw and explain air brake assembly.
7) Explain about a battery and a dynamo.
8) Explain about wheel assembly.

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

1) Draw and Explain about a steering box.
2) Draw and explain gear box.
3) Draw and explain universal joint.
4) Draw and explain fuel injection system.
5) Draw and explain timing system in a engine.

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ONE YEAR EXAMINATION NOVEMBER-2025

TTS022-04 ADVANCED DIESEL ENGINE TECHNOLOGY

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) _____ is the time period of fitness test for domestic vehicles.

2) _____ is the time period of fitness test for commercial vehicles

3) _____ belt is provided in vehicles for safety of passengers.

4) _____ provides space for engine.

5) _____ provides space for luggage

6) _____ filters oil before sending to the pump.

7) _____ filters diesel before sending to fuel pump.

8) Engine belt should normally be replaced at _____ kms

9) Lubricating oil is normally replaced at _____ kms

10) Gear oil is replaced at _____ kms

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

1) Define a shift rod
2) What is hand brake?
3) Explain clutch.
4) What is a starter motor.
5) Which is a glove box.
6) What is a dash board?
7) Define upholster.
8) Define a bootspace.
9) What is a tyre clearnce.
10) What is joint.

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

1) Explain balancing of wheel.
2) Explain a steering
3) Draw a nuckle assembly
4) Explain about ball joint.
5) Explain about universal joint.
6) Draw and explain about grease pin assembly.
7) Explain about a tail lights.
8) Explain about fog lamp and rear fog clearance assembly.

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

1) What is wheel alignment.
2) Draw and explain crown assembly.
3) Draw and explain clutch assembly.
4) Draw and explain piston.
5) Draw and explain exhaust system in an engine.