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

TTS015-MECHANICAL FITTER

ONE YEAR EXAMINATION NOVEMBER-2025

TTS015-01 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) SCRI _____ R

2) VERNI-R CALI-ER

3) MI-RO M-TER

4) SPAN-ER

5) SC-EWDR-VER

6) Ctrl+N _____

7) Ctrl+O _____

8) Ctrl+S _____

9) Ctrl+P _____

10) Ctrl+C _____

11) Rough grinding is removed for _____ from the job.

12) Smooth grinding is removed for excess metal from the _____

13) Should not used the _____ chisel and hammer in work shop.

14) Soluable oil Coolent is very essential for the _____ while the job.

15) Removed excess metal is called _____

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

1) Spelling and Grammar
2) Language
3) Word Count
4) Auto Summarize
5) Auto Correct

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

1) The boy is very short, He cannot climb the tree (Compound)
2) I have some bills. I must pay them. (Compound)
3) The boy saw a thief. He cried in fear. (Compound)
4) The man is poor. He is honest. (Compound)
5) How to use to mouse?
6) Explain about display screen?
7) State about the M.S. Excel in your computer?
8) Write purpose of the My documents?

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

1) b) Center Processing Unit (CPU)
2) c) Keyboard
3) d) Mouse
4) e) Speaker
5) f) Printer

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TTS015-MECHANICAL FITTER

ONE YEAR EXAMINATION NOVEMBER-2025

TTS015-02 TOOLS, MACHINES & PRECISION INSTRUMENTS THEORY

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) IMICRO meter (Micron) is equal to _____ meter

2) An half circle has _____ degrees

3) _____ seconds make one degree

4) In Engineering practice small and big dimensions are indicated in _____

5) Open circuit characteristics

6) Internal circuit characteristics

7) Instrument used to measure the distance between two points is _____

8) Divider is made up of _____

9) The size of caliper specified by _____

10) The instrument is used to measure the inner diameter of hole & the width Of a slot is _____

11) The device used for holding work piece in drilling machine is _____

12) The hammer is made of _____

13) The scriber sharpening point is _____

14) The file is made of _____

15) The cleaning tool of the file is _____

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

1) What is Try square
2) Explain file
3) Explain hacksaw frame
4) Explain vounier caliper
5) Luminous flux
6) Eddy current damping
7) Skin winding
8) Writer the use of divider
9) Write any3 simple measuring tool
10) Write the use of File
11) Name any 2 types of drilling machine
12) Straight Shank Drill
13) Pilot Hole
14) Needle File
15) Screw Pitch Gauge

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

1) Capacitor
2) R.C. Filter
3) Distribution of supply of Electricity
4) Squirrel cage induction motor
5) Define & advantage of Gauges & its type & explain any one type with simple sketch
6) Explain types of vices & define any type with simple sketch
7) Define any one type of surface Gauge with simple sketch
8) For the purpose of Taping and Dieing what kind of Tools, Equipment and Raw Materials are needed?

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

1) Types of semi conductor
2) Explain advantages of flat drill & Twist drill & define Parts of twist drill with neat sketch
3) How many Types of Safety Precaution and Explain about the personal safety precaution?
4) Write the type of cuts in a File explain about double cut file?
5) write types of hammer and explain about which type, of hammer is used for assembling the engine components?

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TTS015-MECHANICAL FITTER

ONE YEAR EXAMINATION NOVEMBER-2025

TTS015-03 MECHANICAL FITTING - THEORY

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) Drill shank and sleeves are having _____ taper

2) Primer is applied before _____

3) After machinind _____ is performed.

4) Technical details explains _____

5) Distance between two threads is _____

6) Example for any one marking tools are _____

7) Example for simple measuring tools is _____

8) In bevel protractor to check the accuracy of _____

9) Any one name of filing method is _____

10) Point angle of drill is _____

11) Hack blade is available size is _____, _____, _____

12) Hack blade is available size is _____, _____, _____

13) Avoid the _____ hammer while grinding

14) _____ are avoid the pressing mark in the finishing job.

15) The grinding wheel rough used for to grind _____ the grinding wheel smooth is used for only grinding the _____

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

1) Explain combination set
2) Explain try square
3) Ring gauge
4) Normal size
5) Define casting.
6) Define batch number.
7) What is technical specification.
8) What is the use file?
9) Name any 2 types of files?
10) Name any 2 types of Drill
11) Write any 3 types of drilling machine operations
12) Coolant
13) Spring Joint Caliper
14) Machine Vice
15) Washer

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

1) Explain limit gauges
2) Name the types of bolts
3) What are the safely precautions to be carried out while ARC welding
4) Explain any two tools.
5) Explain a vernier caliper
6) Explain different between the bench grinder and pedestal grinder?
7) How you specified the file?
8) For the purpose of the Drilling and Reaming what kind of Tools: Equipment. and Raw Materials are needed?

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

1) Explain a lathe.
2) Draw and explain milling machine.
3) Draw and explain gear hobbing machine.
4) Explain Venire Caliper, & its Parts & with neat sketch (Any one)
5) Explain counter sinking & counter boring operations in drilling machine with neat sketch.

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TTS015-MECHANICAL FITTER

ONE YEAR EXAMINATION NOVEMBER-2025

TTS015-04 ENGINEERING DRAWING

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) Example for drawing instrument is _____

2) Size of A2 drawing paper is _____

3) Protractor is used to measure _____

4) Right angle is _____

5) Acute angle is from _____ To _____

6) Size of title block for A2 size drawing paper is _____

7) Symbols for diameter of circle is _____

8) Example for enlarged size scale is _____

9) 1 meter = _____ mm

10) In equilateral triangle is _____

11) In regular polygon, octagon is _____ Sides equal

12) In circle, Diameter = 2 x _____

13) Symbol for first angle projection is _____

14) Symbols for 3rd angle projection is _____

15) Example for any one type is Nat is _____

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

1) Conventional representation of steel is?
2) Name any two types of Riverts
3) Define Front view/Election in orthographic projection.
4) Define top view/plan in orthographic projection.
5) What is the difference between 1st angle & 3rd angle projection
6) Symbol for surface rough ones?
7) Symbol of Geometrical for flatoness?
8) Symbols of cylindricity?
9) Symbols of squareness?
10) Symbol of angularity?
11) Draw any one type of key with simple sketch
12) Draw simple sketch for lap joint
13) Draw simple sketch for butt joint
14) Draw simple sketch for any one type outside caliper
15) Draw simple sketch for any one type of inside caliper.

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

1) Draw external Thread free hand sketch.
2) Draw free hand sketch of square thread
3) Draw front view of hexagonal bolt
4) Draw front view of square hand bolt
5) Draw front vies of plain washer
6) Draw any one type of stud
7) Draw any on type of foundation
8) Draw any one type of Rivet sketch

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

1) Read the dimensioned drawing shown in fig 1.1 below redraw the figure to full size and dimension as per IS
2) Draw the free hand neat sketch any four of the followings:- a) Ball Pein Hammer b) Try Square c) Straight Shank Drill d) Fixed Hack Saw Frame e) Hand File f) Double Ended Spanner g) Electrician Screw Driver h) Combination plier
3) Draw the neat sketch of Isometric view in third angle Projection. All Dimension are in Double Measurement in M.M.