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BILL OF MATERIAL OF PRACTICAL EXAMINATION UNDER ANNUAL SYSTEM AND SEMESTER SYSTEM FOR AITT-SUPPL.-November-2023 (To be conducted in February-2023)

1 message

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Sir/Madam,

Please find the attachment relating to the Bill of Materials for Practical AITT-Suppl.-Nov-2023(To be conducted in February-2023).

With Thanks & Regards.**S K Muduli
Dy. Controller of Examinations
SCTE&VT ,ODISHA , Bhubaneswar.****BILL OF MATERIAL OF ANNUAL SYSTEM AND SEMESTER SYSTEM UNDER CTS & DST MODE FOR
AITT -FEB-2023.pdf
589K**

**BILL OF MATERIAL REQUIRED FOR EACH TRAINEES FOR THE FOLLOWING TRADES DURING
THE ALL INDIA TRADE TEST OF CRAFTSMEN (ANNUAL PATTERN & SEMESTER SYSTEM)
UNDER CRAFTSMAN TRAINING SCHEME & DUAL SYSTEM MODE TO BE HELD IN THE
MONTH OF FEBRUARY -2023**

Year-2

**2ND YEAR BILL OF MATERIAL FOR AITT PRACTICAL EXAMINATION UNDER CTS & DST (YEARLY PATTERN) TO BE
HELD IN THE MONTH OF FEBRUARY-2023**

DRAUGHTSMAN CIVIL

1. Drawing sheet-01 no
2. Eraser - 01 no
3. Pencil (H and HB) -02 nos
4. Cellotape - 8nos per 20 trainees
5. Sand paper (thin particle A4 size-10 nos per 20 trainees)
6. AUTOCAD software

ELECTRONICS MECHANIC

1. Amplifier Circuit
2. DSO
3. MCB single pole, MCB double pole
4. Different types of electronic cables
5. FM radio receiver
6. Computer SMPS
7. Smartphones

ELECTRICIAN

- 1 Sq. cage Induction motor (3hp, 440V)
- 2 Contractor with auxiliary contact NO & NC (32amp, 415V)
- 3 Relay & Timer
- 4 Push button switch
- 5 Tachometer
- 6 MCB (32 Amp)
- 7 PVC wire-2.5 mm²
- 8 Pin insulator
- 9 ACSR (7strandard)

FITTER

1. M/S Flat (105 X 65 X 10) mm- 2 pieces

MECHANICAL REFRIGERATION & AIR CONDITIONING TECHNICIAN

- 1 Wire Brush

- 2 Hydraulic Acid
- 3 Cotton waste
- 4 Gasket

MECHANIC MOTOR VEHICLE

1. Distilled water
2. Engine Oil
3. Diesel
4. kerosene
5. Cotton waste
6. Detergent
7. Sand paper

WIREMAN

- | | |
|----------------------------------|----------------------|
| 1. Suspension Insulator | Rod type 11K.V |
| 2. A.C.S.R Conductor | 11 K.V |
| 3. Aluminum binding wire | 14 S.W.G |
| 4. D.O.L Starter | 10 Amp./415 V |
| 5. 3 ph sq. Cage induction motor | 3 H.P/400 V |
| 6. I.C.T.P Main switch | 16 Amp./415 V |
| 7. Permanent Capacitor motor | Ceiling Fan(48") |
| 8. Ampere meter | M.I type(0 to10 Amp) |
| 9. Volt meter | M.I type(0 to500V) |
| 10. Capacitor | 2.5 M.F.D |
| 11. P.V.C Wire | 2.5 Sq.mm |
| 12. P.V.C insulation tape | 19mm |
| 13. P.V.C Wire | 1.5 sq.mm |
| 14. Fuse wire | 36 S.W.G |

MECHANIC MACHINE TOOL MAINTENANCE

1. MS Rod (Φ 70x100) MM

MACHINIST

1. 80x100 CI BLOCK

TURNER

1. M.S. Round bar Φ 50x85 mm

Note: *All tools, Instrument and equipment as per syllabus of the trade should be kept ready in working condition.

Year-1

1ST YEAR BILL OF MATERIAL FOR AITT PRACTICAL EXAMINATION UNDER CTS & DST (YEARLY PATTERN) TO BE HELD IN THE MONTH OF FEBRUARY-2023

ELECTRICIAN

1. S.P switch, 6A, 250V.
2. Resistor, 50 ohms & 5 watts
3. P.V.C insulated copper wire.
4. Graph sheet.
5. Tube light fitting 1200 mm single Patti.
6. Chock 40w, 250V.
7. Tube light starter 40w, 250V.
8. Tube light holder plain.
9. Starter holder.
10. 200w, 250V lamp.
11. 100w, 250V lamp.
12. Connecting leads.
13. Pendent holder, 6A, 250 V

MECHANIC DIESEL

1. Diesel, Kerosene, Emery Paper, Engine Oil, Cotton waste, Soap , Oil Filter

FITTER

1. 60 X 40 X 12 MM AND 60 X 40 X 12 MM

ELECTRONICS MECHANIC

1. Center tapped Transformer (9-0-9)
2. Rectifier Diode (1N4007)
3. Resistor (1k)
4. IC (7812/7805)
5. IC 7402, 7400
6. PCB, CRO

MECHANIC MOTOR VEHICLE

1. Cotton waste
2. Engine oil (5W30)

REFRIGERATION & AIR CONDITIONING TECHNICIAN

- 1.Split air-conditioner-1no
- 2.Refrigerant required for the domestic refrigerator
3. Domestic refrigerator-1no

WELDER

- 1.M.S Flat ISF (50 ×10 x 150) mm

WIREMAN

1. Single phase energy meter, Calling Bell, Electric Iron, Ceiling Fan as required.
2. HDBC wire 8 SWG
3. 1 way Switch, Socket, Holder , Board (8"x10"),Lamp 100wt.,Screw, PVC pipe (including all fittings)

CARPENTER

- 1.(155*55*2)-2 pieces

INSTRUMENT MECHANIC

- 1.DC voltage source(15v , 5v)
- 2.Resistors(100, 10k)
- 3.PN Diodes
- 4.zener diode
- 5.Connecting wires
6. Digital Multimeter

MACHINIST

- 1.Metal:Cast iron
- 2.cast iron block
- 3.Size:75X75X75MM

MASON(BUILDING CONSTRUCTOR)

1. Measuring tape 30 mtr.
2. 1/2 inch stone chips
- 3.1/2 inch Ply boards for setting

4. 1/2 & 1 inch nail
5. Cement
6. Sand
7. Bricks
8. Tray
9. Trowel
10. Straight snip

PLUMBER

1. Cement, bricks, river sand, Aggregate, C.I frame with cover, Grating Gully trap.
2. ½ inch GI pipe 300mm long
3. Socket
4. Teflon tape
5. Lubricant oil.

SEWING TECHNOLOGY

1. Cotton Cloths-21Mtrs
2. Thread-20 Pieces
3. Cloth-30Mtrs
4. Thread-20 Pieces
5. Button-130 Pieces
6. Blouse Piece-20 Nos
7. Thread-20 Nos
8. Button-105 Pieces

TURNER

1. Fe 310 Ø 40 X 125 MM

MECHANIC REPAIR AND MAINTENANCE OF HEAVY VEHICLE

1. Battery
2. Brake fluid
3. Hydrometer
4. Clutch kit

MECHANICAL MACHINE TOOL MAINTENANCE

1. MS ROD (80x45)MM

Note: *All tools, Instrument and equipment as per syllabus of the trade should be kept ready in working condition.

SEMESTER-1**1ST SEMESTER BILL OF MATERIAL FOR AITT PRACTICAL EXAMINATION UNDER CTS (SEMESTER PATTERN) TO
BE HELD IN THE MONTH OF FEBRUARY-2023****WIREMAN**

1. Rheostat-20 Ohms 3.7 amp
2. DC variable supply 0-30V 2 amp
3. SP switch 6 amp 250 v
4. Resistor 10 Ω , 20 Ω , 50 Ω , 5 watt
5. B.C batten holder 6A, 250V
6. SPT switch 6A, 250 V
7. PVC copper wire 2.5 Sqmm
8. Wooden Board (8x10)"
9. 3-pin socket 6A 250 V
10. Kit Kat fuse f/t 6A 250 V
11. Indicator 6A 250 V
12. Voltmeter MI 0-600 V

ELECTRONICS MECHANIC

1. DIODE-IN4007
2. PCB
3. SMPS
4. CRO

ELECTRICIAN

1. Intermediate switch
2. 4/4 board
3. 40w Induction Choke
4. 2 way Switch
5. Electrolytic capacitor
6. 100W lamp
7. pendant holder
8. Resistors (variable values)
9. Connecting wires

FITTER

1. Fe310, 75 ISF 8 – 90
2. M/S Flat – 75x90x8 mm

MECHANIC MOTOR VEHICLE

1. Solder – 2 coils
2. Outside micro-meter – (50mm-100mm)
3. Feeler Gauge –(1mm-100mm)
4. Digital Multimeter

MACHINIST

1. MS flat -65*50*8
2. MS flat -50*40*8

WELDER

1. M.S PLATE (150 x 50 x 10)mm
2. M.S PLATE (150 x 50 x 10)mm

SEMESTER-2**2ND SEMESTER BILL OF MATERIAL FOR AITT PRACTICAL EXAMINATION UNDER CTS (SEMESTER PATTERN)TO
BE HELD IN THE MONTH OF FEBRUARY-2023****ELECTRICIAN**

1. 8*10 TW board with plate
2. 5 pin socket 6 amp
3. Two-way switch
4. Indicator
5. Fuse 6 amp
6. Lamp holder
7. 1.5 sq. mm copper wire
8. Watt meter 1.5 kw

ELECTRONICS MECHANIC

1. Varro Board
2. Bread Board
3. Transformer (12-0-12)
4. Capacitor 0.1 micro farad

5. Resistors 1 K ohm

6. Connecting Wires

7. Logic gates ICS

MECHANIC MOTOR VEHICLE

1. Engine

2. Micrometer (O/s & I/S)

3. Injector

4. Injector Testing Machine

WELDER

1. M.S PLATE –(150 X 50 X 10) mm

2. Aluminum sheet-(150 x 50 x 1.6) mm

FITTER

1. MS FLAT 80*100*10mm.

PLUMBER

1. Wash basin, Pillar tap, PVC connector, waste coupling, rag bolt , rubber plug, chain, plaster of Paris

2. ½ "Ø G.I pipe & ½ "Ø sockets

3. ½ "Ø copper pipe & ½ "Ø elbow

MACHINIST

1. MS Block-65*65*40-1pc

WIREMAN

1. ICDP switch 16A 240 V-1 no

2. Lamp 200Watt, 100Watt, 40 Watt 230 V-02 nos each

3. Lamp Holder BC-04 nos

4. Voltmeter 0-300v MC-1 no

5. Ammeter 0-5A MC-1 no

6. Wattmeter 250 V, 0-5A -1 no

7. PVC conduit 20mm-3.6m

8. Switch 2Way 6A 250V-4 nos

9. Batten Holder 6 A 250V-4 nos

10. Miniature Screw cap Bulb 6V 150mA-40 Nos

11. Holder for Screw cap Bulb -40nos

12. Connecting Lead Flexible 23/.2-20 mtr

SEMESTER-3**3RD SEMESTER BILL OF MATERIAL FOR AITT PRACTICAL EXAMINATION UNDER CTS (SEMESTER PATTERN) TO****BE HELD IN THE MONTH OF FEBRUARY-2023****ELECTRICIAN**

1. DOL Starter
2. HPMV Lamp
3. HPSV Lamp

FITTER

1. Fe -360 / 08 X 45 X 55 MM³
2. Fe -360 / 08 X 40 X 40 MM³

MECHANIC MOTOR VEHICLE

1. Tray -1 nos
2. Suspension over hauling kit/Rubber bush kit -1Set
3. Grease as required
4. Petrol/Diesel - as required
5. Cotton waste – As required
6. Emery Paper – As required
7. Tray -1 nos
8. Universal joint – 2 sets
9. Grease- as required
10. Diesel - as required
11. Cotton waste – As required
12. Emery Paper – As required

MACHINIST

1. Cast Iron Block-45*25*35-1pc

ELECTRONIC MECHANICS

1. Microcontroller kit
2. Thermocouple

3. Leds
4. Resistors
5. Arduino

WIREMAN

1. Star –Delta Starter
2. $3.\phi$ sq cage Induction motor
3. Ammeter (AC). (0-3A)
4. PVC Connection wire -1.5mm²
5. Transformer 12-0-12 V
6. Diode -1N4007
7. Electrolyte Capacitor -1600 MF
8. Inductor (Choke)
9. Load Resistance
10. Voltmeter –DC –(0.300)V -1 No
11. Ammeter –DC- (0-1)a -1No
12. Rheostat - 250 Ω ,5A -1No
13. Rheostat -1.7 A , 300 Ω -1No
14. Connecting wire -1.5 mm²

PAINTER GENERAL

1. Paint
2. Exterior emulsion
3. G.I Sheet
4. Sandpaper
5. Red oxide
6. Paint
7. Thinner

TURNER

1. MS ROD ϕ 35 X 130 L

SEMESTER-4**4TH SEMESTER BILL OF MATERIAL FOR AITT PRACTICAL EXAMINATION UNDER CTS (SEMESTER PATTERN) TO
BE HELD IN THE MONTH OF FEBRUARY-2023****FITTER**

1.M.S. Flat(50x12x145)mm

MECHANIC MOTOR VEHICLE

1. Motor vehicle (Diesel)
2. Multimeter

WIREMAN

1. Star delta Starter
2. shackle insulator
3. Bare Aluminum Standard Wire 7/12
4. Watt meter 250V, 5A
5. Voltmeter MI 0-300 V
6. Ammeter MI 0-10 A
7. Connecting lead as required

MACHINIST

1.CAST IRON BLOCK (100X60X60) mm

ELECTRONICS MECHANIC

1. DSO
2. F E T (any value)
3. Micro controller I C (8051) - 2 No.
4. Capacitor-30 mf -12No.
5. Crystal oscillator (1-20 mhz) - 5No.
6. Rivet
7. I C 555 - 2No.
8. Seven segment display -5No.
9. I C 7447 - 2No.
10. I C 7490 - 5No.
- 11.

ICTSM

1. PC 4 Nos
2. LAN Switch 1 No
3. Cat 5 Cable As required

4. RJ-45 Connector 1 No
5. Crimping Tool 1 No
6. Modem, Router, Switch, Access Point, Wi-Fi Adapter,- Each 1No

ELECTRICIAN

- 1 .P. V. C insulated stranded copper cable(2.5sq. Mm)-6m
- 2 .DOL star-delta starter
3. DC motor starter
4. Auto- Transformer starter
5. I.C.T.P switch 16A ,415V-1N
6. Connecting cable - As per required
7. Test lamp (100w) -01 No

Note: *All tools, Instrument and equipment as per syllabus of the trade should be kept ready in working condition.