

**DRAUGHTSMAN CIVIL
(PRACTICAL)
1st YEAR (ANNUAL EXAMINATION) TWO YEAR TRADE**

TIME: 8 HRS.**MARKS: 250****Note: Attempt all questions.**

1. Draw the sectional elevation of spread footing for wall 300 mm thick. (75)
2. Draw elevation of semicircular Arch and indicates their each components or parts. (75)
3. Perform Chain survey for Road length 200m and plot all the necessary details required. (100)

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**ELECTRICIAN
(PRACTICAL)
1st YEAR (ANNUAL EXAMINATION) TWO YEAR TRADE**

TIME: 8 HRS.**MARKS: 250****Note:- Attempt all questions.**

1. a) Draw the circuit diagram using BIS symbols to measure the power and energy in single phase AC circuit with unity power factor. **(50)**
 - b) List out the required tools, Instrument raw material with specification also write procedure step to perform the above parameter measurement in single phase AC Circuit.
 - c) Connect the meters with load and measure the power and energy directly in single phase AC circuit.
2. a) Draw the schematic connection diagram using BIS symbol and test twin tube light fitting in parallel . **(100)**
 - b) List out the required tools component, material with specification and write the procedure to perform the above assemble of Twin Tube Light fitting.
 - c) Assemble and connect the component for Twin Tube Light fitting parallel and test for its working.
3. a) Draw the circuit diagram to verify the relation between current and voltage when Resistance is constant / variable.
 - b) List out the required tools, instruments and Raw material with Specification.
 - c) To verify the relation between current and voltage when Resistance is constant/variable. **(100)**

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**ELECTRONICS MECHANIC
(PRACTICAL)
1st YEAR (ANNUAL EXAMINATION) TWO YEAR TRADE**

TIME: 8 HRS.

MARKS: 250

Note:- Attempt all questions.

1. Identify the terminal & testing of various active & passive components and draw the symbols of each at least five active & five passive components. (50)
2. Connect given any three resistor in parallel circuit & calculate the total resistance and measure the voltage & current of each resistor if it is connected with 10V supply. (100)
3. Construct the regulated power supply using IC 7805 & show the wave form at various panel by CRO. (100)

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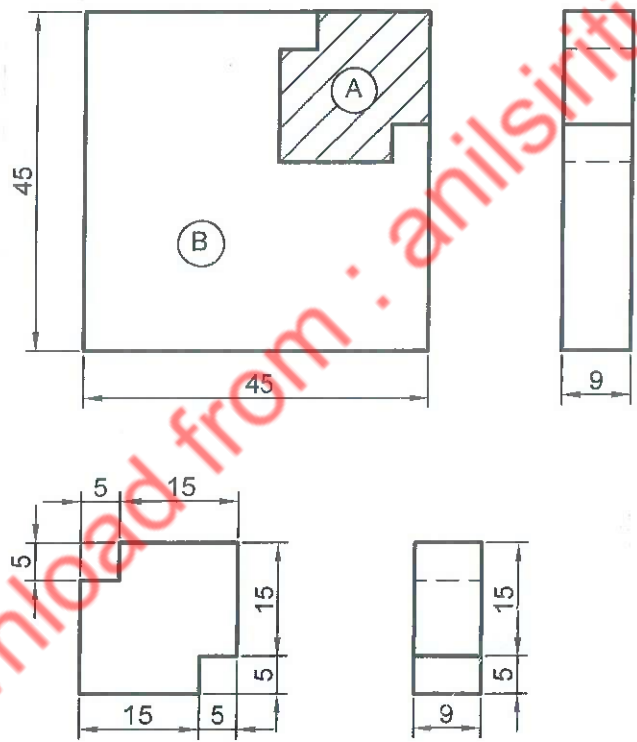
**FITTER
(PRACTICAL)
1st YEAR (ANNUAL EXAMINATION) TWO YEAR TRADE**

TIME: 8 HRS.

MARKS: 250

Note:- Attempt all questions.

- | | |
|---|-------|
| 1. List out tools and equipments required to perform practical. | (05) |
| 2. Write the job sequence. | (10) |
| 3. Make the job as per drawing. | (235) |



PART - A

All dimensions are in mm.
General tolerance +/- 0.02 mm.

**MECHANIC MOTOR VEHICLE
(PRACTICAL)
1st YEAR (ANNUAL EXAMINATION) TWO YEAR TRADE**

TIME: 8 HRS.**MARKS: 250****Note:- Attempt all questions.**

1. Overhauling the crankshaft. (80)
2. Change the engine oil and fill the engine oil to a specified level. (120)
3. Adjusting valve tappet clearance of four cylinder engine. (50)

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REFRIGERATION AND AIRCONDITIONING TECHNICIAN/MECHANIC
REFRIGERATION AND AIRCONDITIONING
(PRACTICAL)
1st YEAR (ANNUAL EXAMINATION) TWO YEAR TRADE

TIME: 8 HRS.

MARKS: 250

Note:- Attempt all questions.

1. Trace the electrical circuit and check frost free refrigerator. **(120)**
2. Write down the list of tools & equipment and precautions need for all jobs done in practical. **(40)**
3. Check and test electrical accessories in frost free refrigerator. **(80)**
4. Viva- voce. **(10)**

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**WIREMAN
(PRACTICAL)
1st YEAR (ANNUAL EXAMINATION) TWO YEAR TRADE**

TIME: 8 HRS.

MARKS: 250

Note:- Attempt all questions.

1. a) Draw the circuit diagram to verify the relation between current and voltage when resistance is constant. (50)
b) List out the required tools, apparatus, and materials with specification and write the procedure steps to perform the above task.
c) To verify the relation between current and voltage when resistance is constant.
2. a) Draw the schematic connection diagram using BIS symbols to assemble and test single tube light fitting in parallel. (100)
b) List out the required tools components, materials with specification and write the procedure to perform the above assembly of single tube light fitting.
c) Assemble and connect the components for single tube light fitting in parallel and test for its working & test the Chock/Blast through test lamp.
3. a) Draw the circuit diagram using BIS symbols to measure the 1 ϕ -phase power of given loads using single phase wattmeter. (100)
b) List out the required tools, instruments, materials with specification and write the procedure to perform the above power measurement with safety points.
c) Connect the given load with meters and measure the power in both loads.
