National Skills Qualifications Framework (NSQF) Competency Based Curriculum
Level 1 (Class 8th) Level 4 (Class 12)

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Vetted By

PSS Central Institute of Vocational Education, Bhopal

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[illegible] Technology for NSQF Level 1 (Class 9) Level II (Class 10)

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ISBN [illegible]

[illegible] Coordinator: [illegible]

PSSCIVE Coordinator: Dr. Deepak D. Shudhalwar, Head, Computer Centre, PSSCIVE, NCERT, Bhopal

Published by: The Joint Director, PSS Central Institute of Vocational Education, Shyamla Hills, Bhopal

Preface

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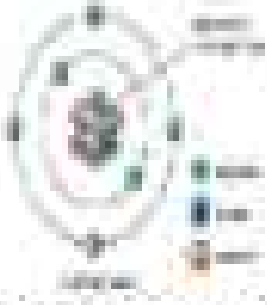

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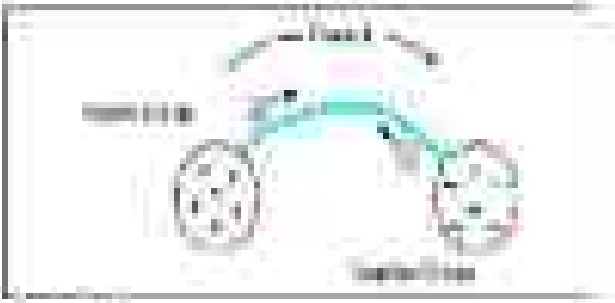

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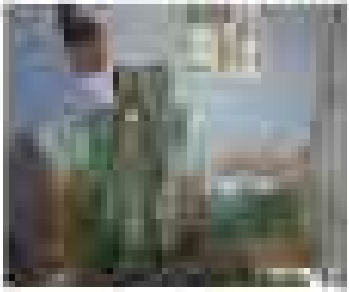

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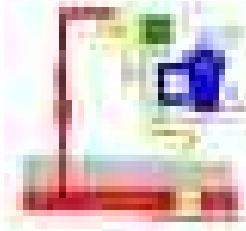

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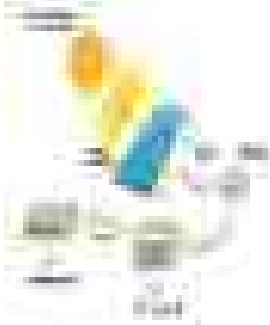

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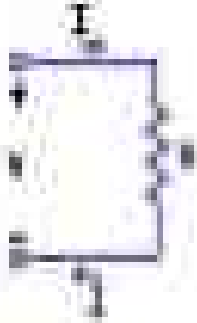

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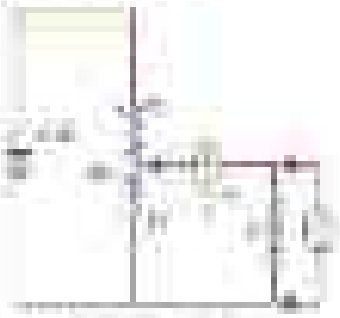

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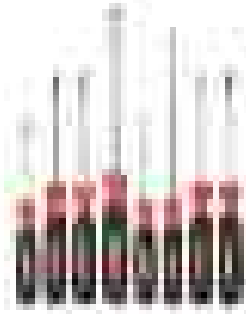

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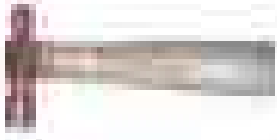

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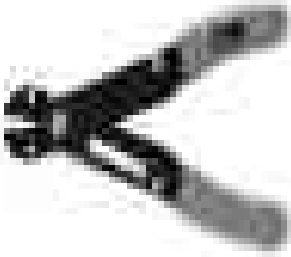

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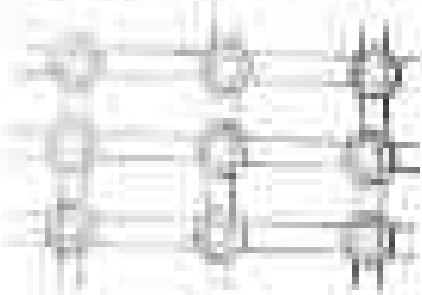

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[illegible] ELECTRICAL TERMINOLOGY [illegible]

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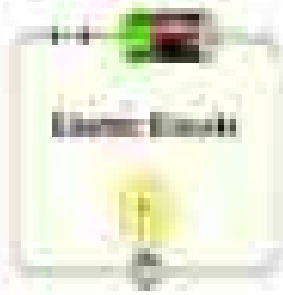

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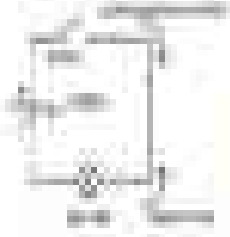

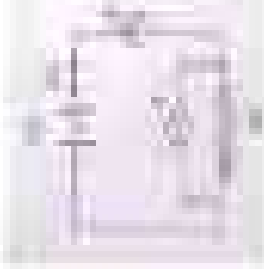

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[illegible] ELECTRICAL TECHNOLOGY

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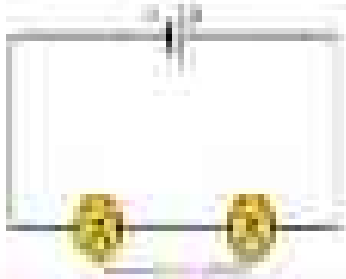

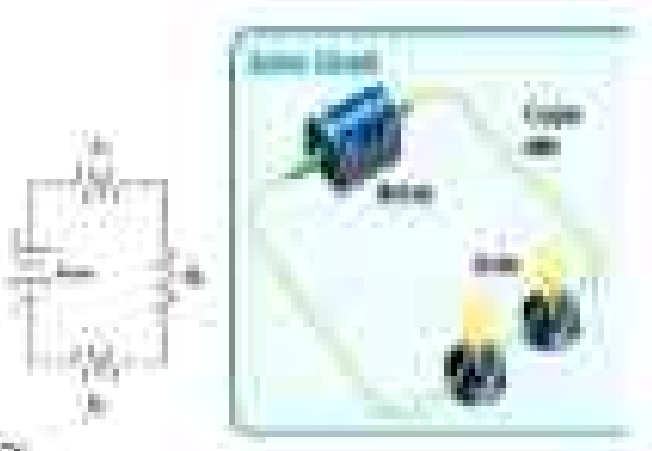

[illegible] ELECTRICAL TECHNOLOGY [illegible]

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$V = [illegible]$

$V_1 = [illegible]$

$V = [illegible]$

$V_1 = [illegible]$

$I = [illegible]$

[illegible]

$\frac{V}{I} = [illegible]$

[illegible]

$V = [illegible]$

$V_1 = [illegible]$

$V_2 = [illegible]$

$V_3 = [illegible]$

$I = I_1 = I_2 = [illegible]$

$V = [illegible] + V_1 + V_2$

$V = [illegible] + [illegible] + [illegible]$

$V = [illegible] + [illegible] + [illegible]$

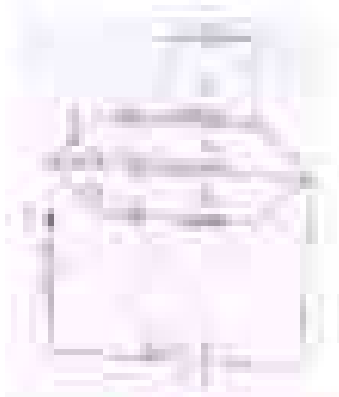
$V = [illegible] + [illegible] + [illegible]$

$\frac{V}{I} = [illegible] + [illegible] + [illegible]$

$R = [illegible] + [illegible] + [illegible]$

[illegible]

4. [illegible]



[illegible]

R_{avg} [illegible]

R_1 [illegible]

R_2 [illegible]

[illegible]

[illegible]

$= \frac{[illegible]}{[illegible]}$

$= \frac{[illegible]}{[illegible]}$

$= \frac{[illegible]}{[illegible]}$

$$i_1 = \frac{v_1}{R_1}$$

$$i_2 = \frac{v_2}{R_2}$$

$$i_3 = \frac{v_3}{R_3}$$

$$i = \frac{v}{R} + \frac{v}{R_1} + \frac{v}{R_2} + \frac{v}{R_3}$$

$$i = \frac{v}{R} + \frac{v}{R_1} + \frac{v}{R_2} + \frac{v}{R_3}$$

$$i = v\left[\frac{1}{R} + \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}\right]$$

$$\frac{i}{v} = \left[\frac{1}{R} + \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}\right]$$

$$\frac{1}{R} = \left[\frac{1}{R} + \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}\right]$$

$\frac{1}{R}$ [illegible]

[illegible]

2. [illegible]

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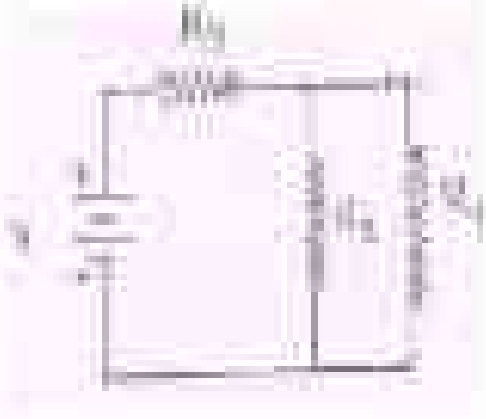

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[illegible]

$$\frac{1}{R_1} = \frac{1}{R_2} + \frac{1}{R_3}$$

$R_1 =$ [illegible]

$R = R_1 - R_2$

[illegible]

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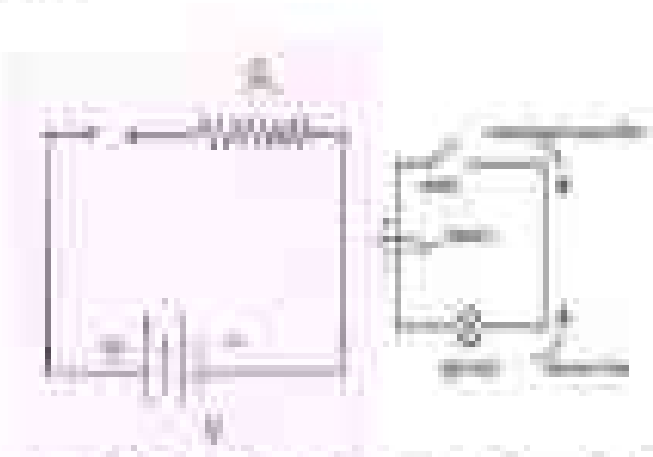

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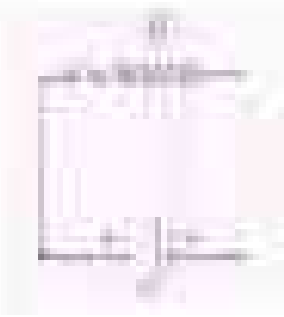

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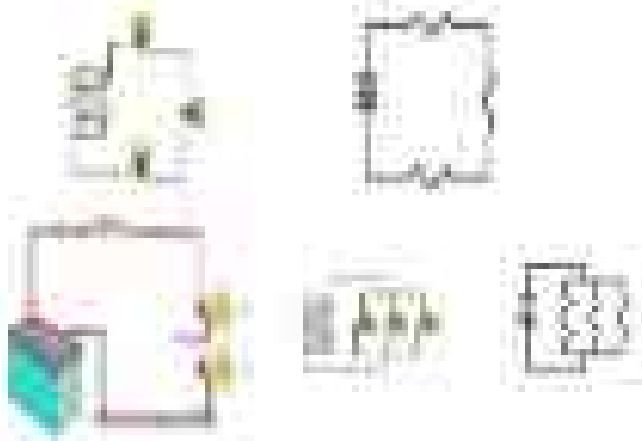

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$$\frac{1}{R}=\frac{1}{R_1}+\frac{1}{R_2}+\frac{1}{R_3}+\frac{1}{R_4}+\frac{1}{R_5}$$

[illegible]

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第11章 电磁感应现象的发现

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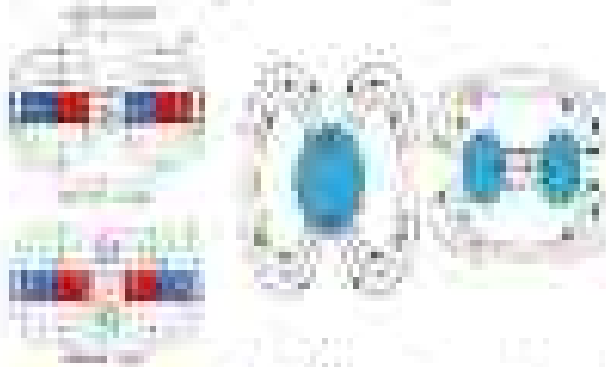

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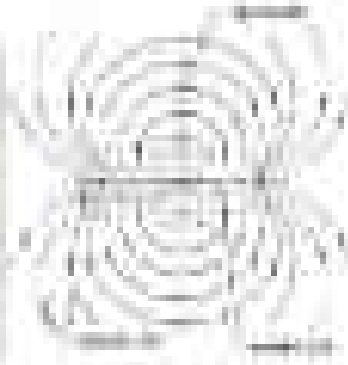

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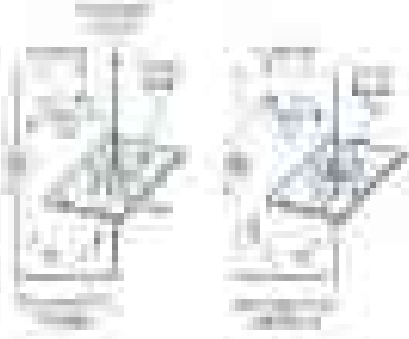

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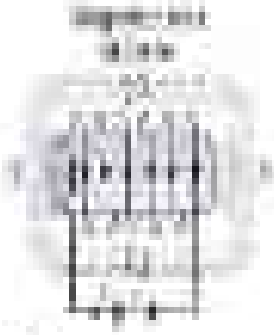

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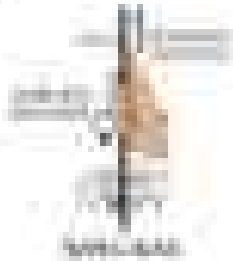

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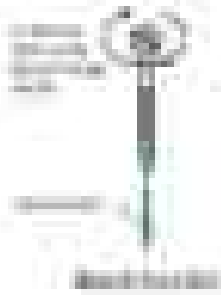

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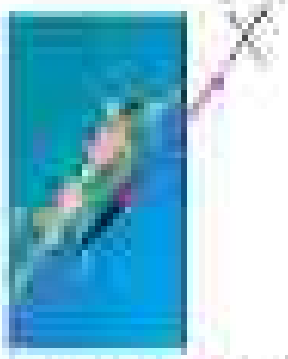

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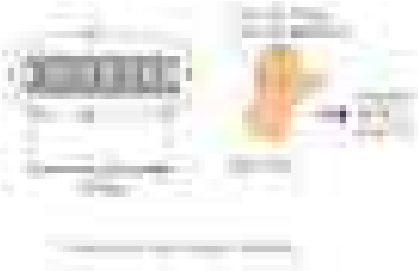

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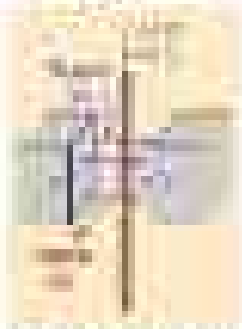

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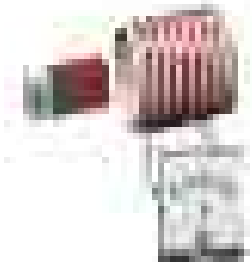

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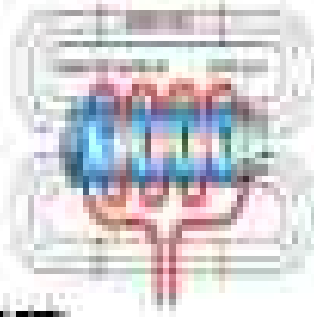

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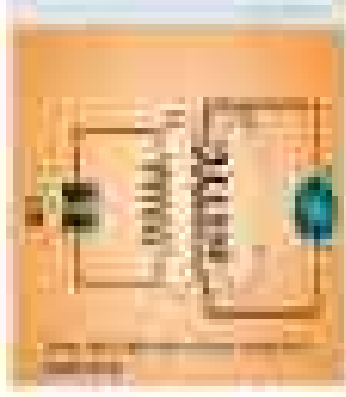

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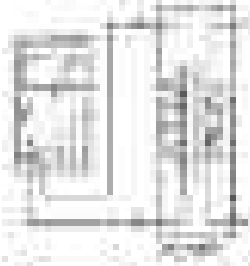

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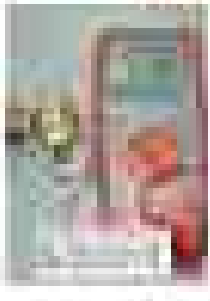

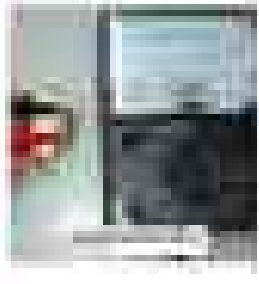

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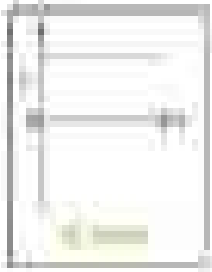

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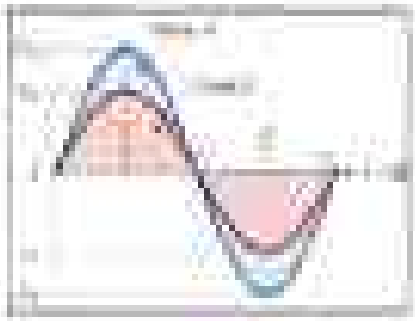

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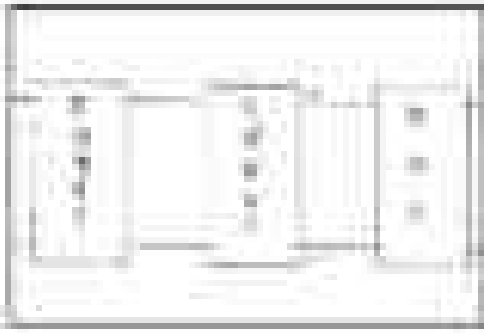

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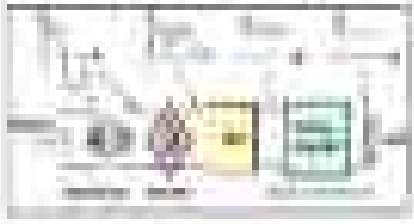

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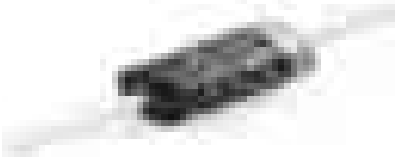

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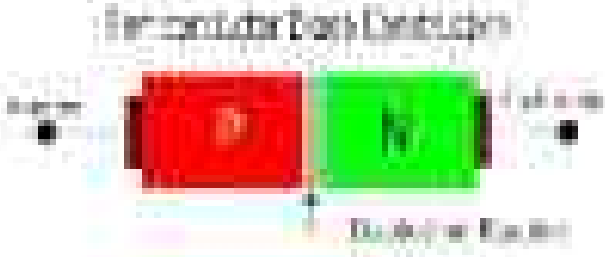
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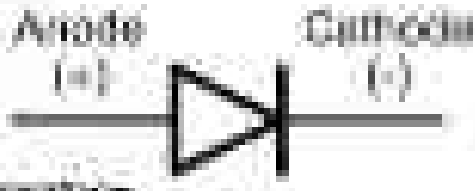
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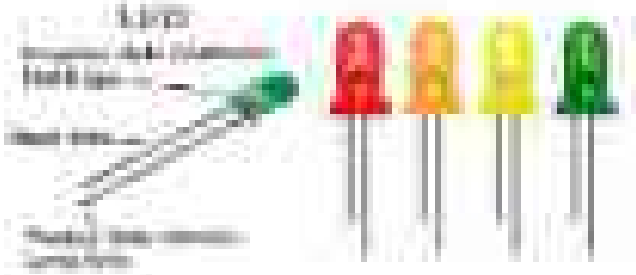

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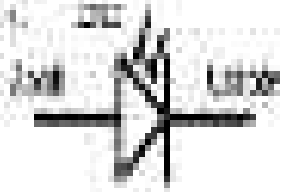

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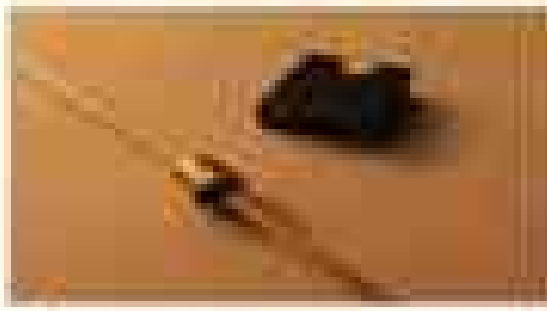

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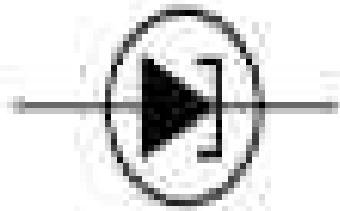

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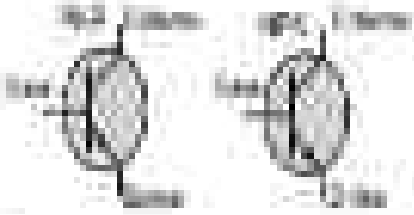

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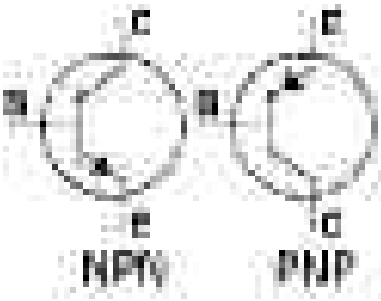

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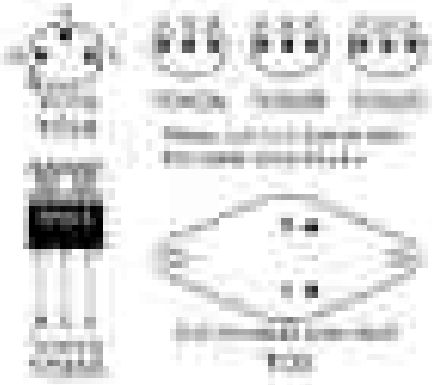

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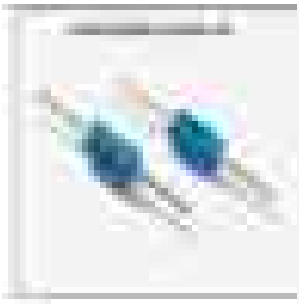

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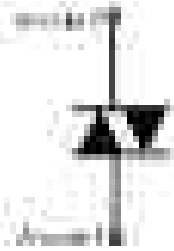

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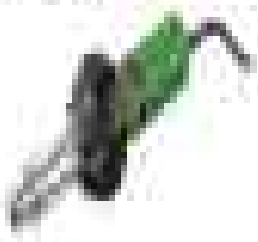

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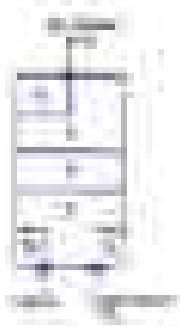

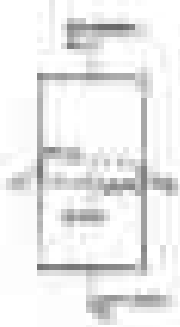

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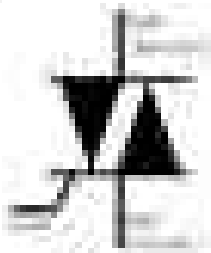

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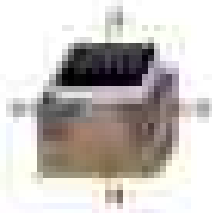

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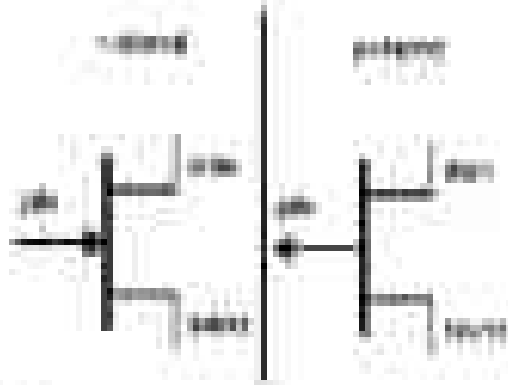

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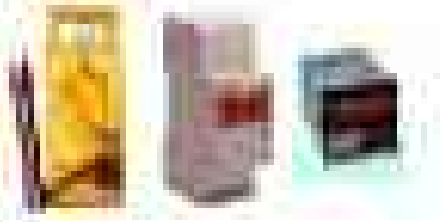

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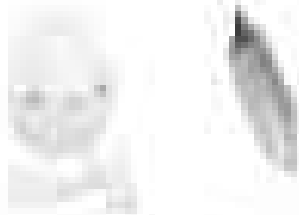

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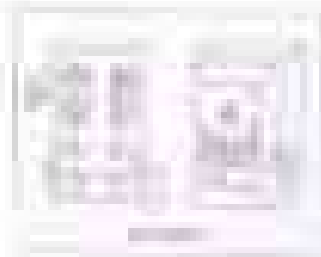

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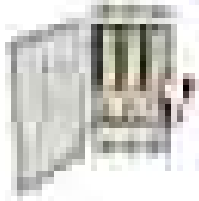

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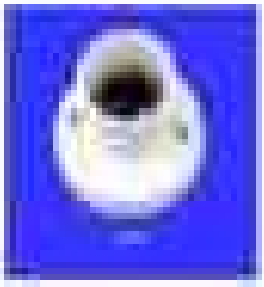

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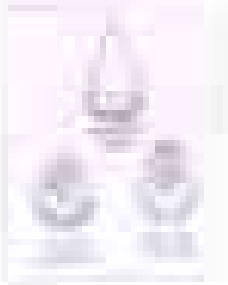

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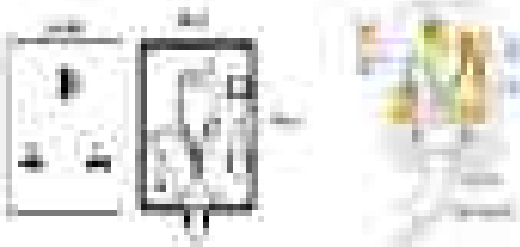

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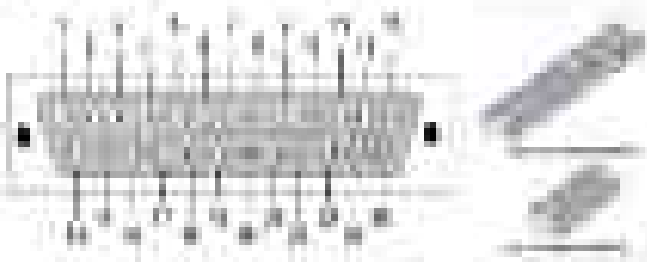

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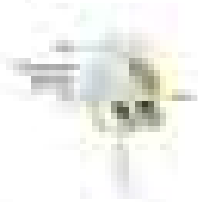

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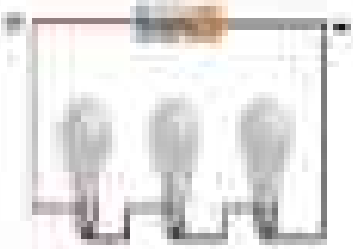

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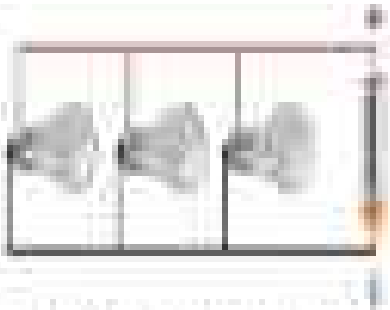

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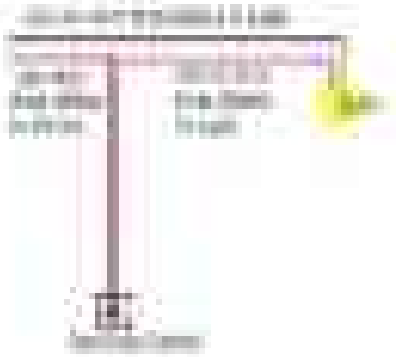

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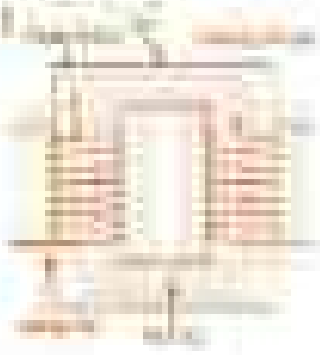

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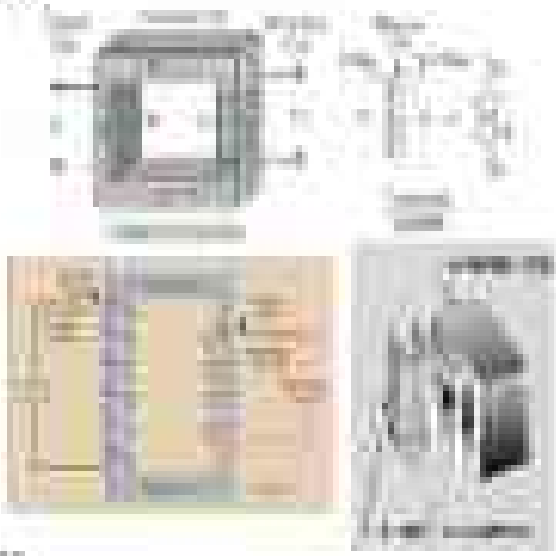

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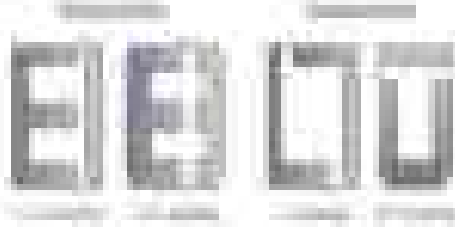

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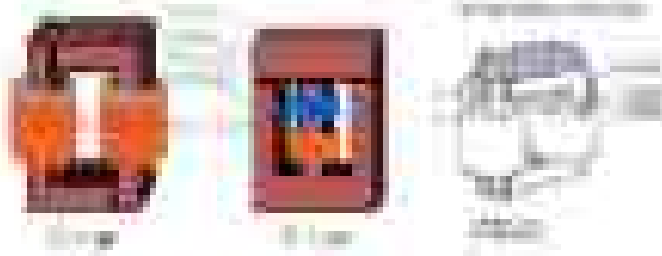

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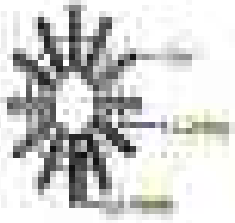

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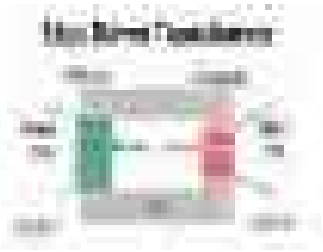

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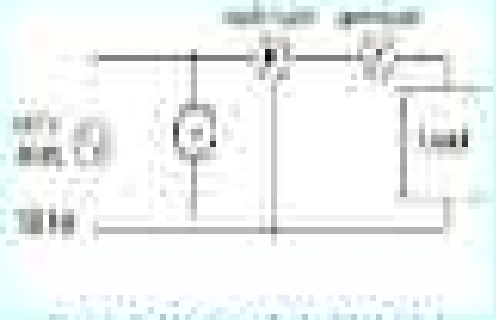
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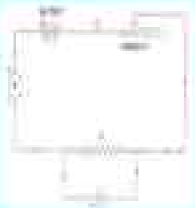

অনুশীলন কাজ:

ক্রম	(১) মূলধনের ধরন অনুযায়ী	(২) প্রকৃতি অনুযায়ী	(৩) মেয়াদ অনুযায়ী
১.			
২.			
৩.			

উত্তর:

(১) মূলধনের ধরন অনুযায়ী: ব্যবসায় ব্যবহৃত মূলধন দুই প্রকার। যথা: (ক) স্থায়ী মূলধন (খ) চলতি মূলধন।

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प्रात्यक्षिक १

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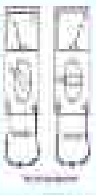

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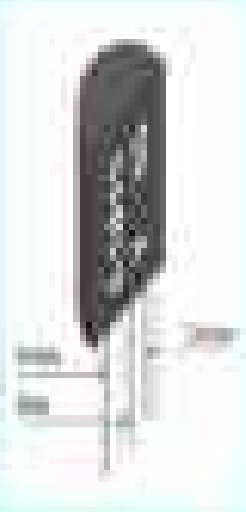

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প্রক্রিয়া

ক্র.নং	প্রক্রিয়া	প্রক্রিয়ার ফল	[illegible]	[illegible]
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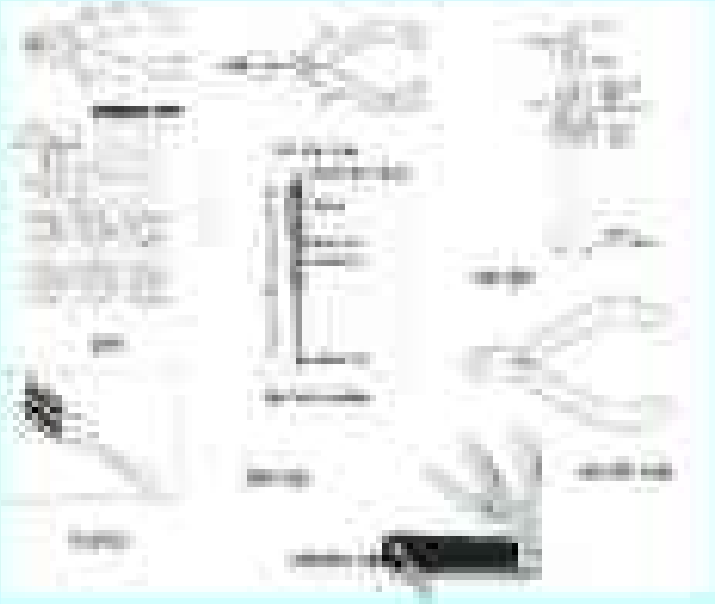

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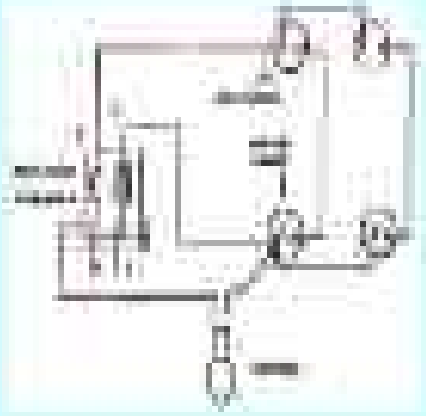

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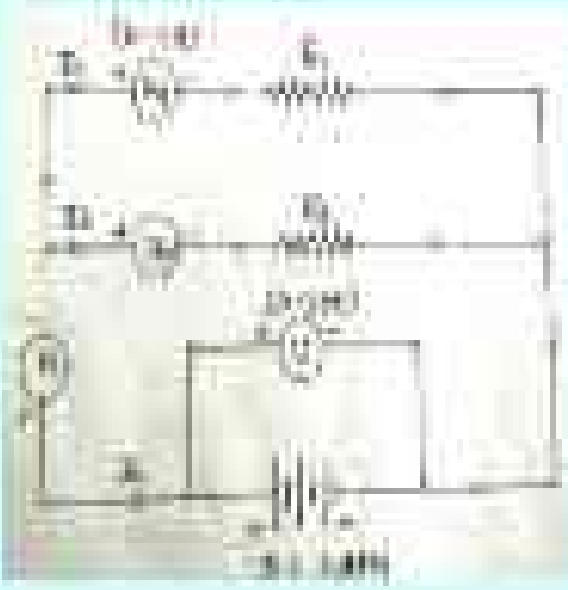
চিত্র



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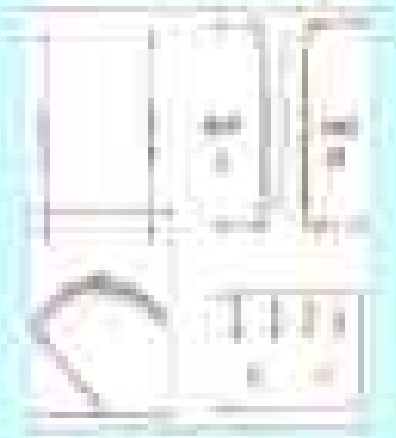

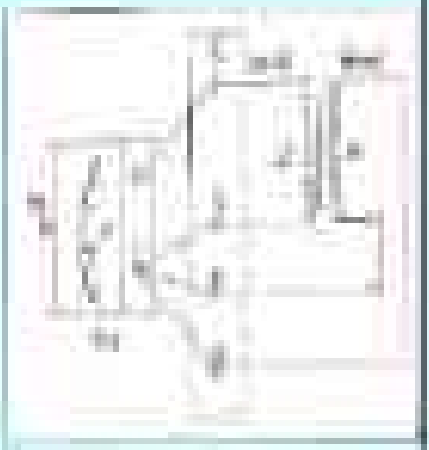

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[illegible]	[illegible]	[illegible] (মিটার)	[illegible]
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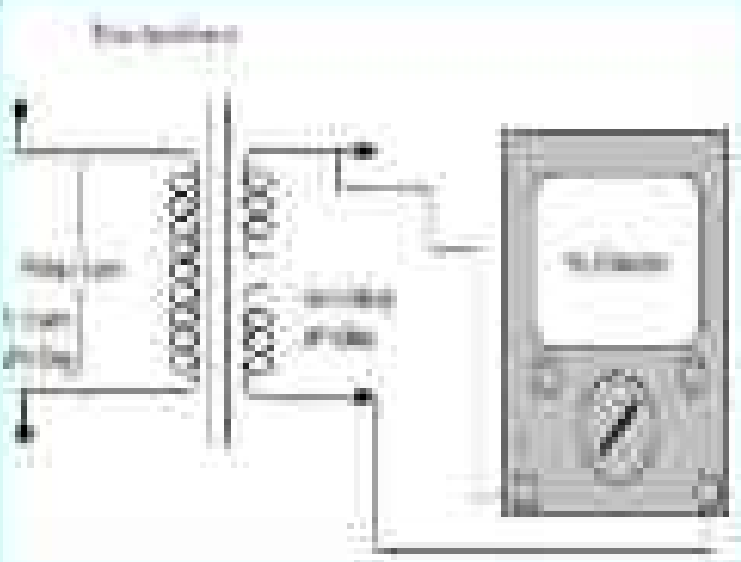

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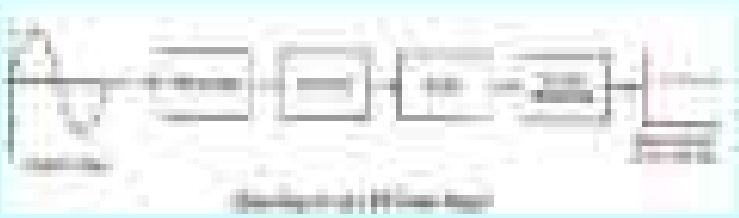

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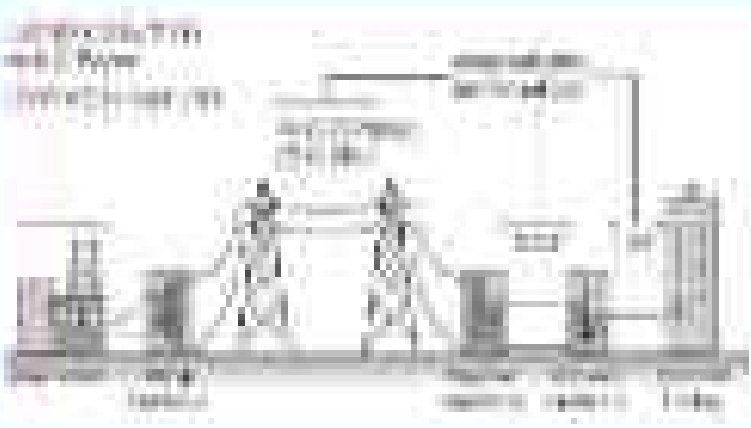

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প্রশিক্ষণ কেন্দ্রসমূহ

ক্লাস – সপ্তাহ

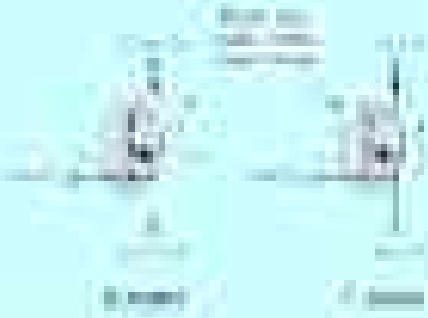
[illegible]

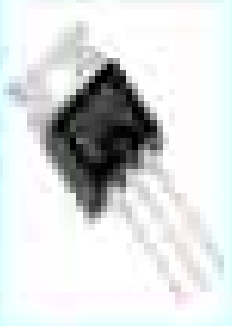
[illegible] – [illegible] (Class) [illegible] [illegible] MOSFET [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] – [illegible] (Class) [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] – [illegible] (Class) [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] – [illegible] (Class) [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]





পাওয়ার মোসফেট:

সুবিধা হলো:

১) খরচ কম হয়

২) দ্রুত স্বিচিংকারী

৩) বিটের ভোল্টেজ নিয়ন্ত্রণকারী

৪) ভোল্টেজ নিয়ন্ত্রণ

অসুবিধা হলো:

১) শক্তি কম হয়

২) দ্রুত স্বিচিংকারী

৩) ভোল্টেজ নিয়ন্ত্রণকারী নিয়ন্ত্রণ করতে পারে

[illegible] :

[illegible] বিটের [illegible]

[illegible] বিটের [illegible] নিয়ন্ত্রণ করতে পারে

নোট:

- [illegible] MOSFET [illegible] ভোল্টেজ [illegible] নিয়ন্ত্রণকারী [illegible] করতে পারে।
- [illegible] বিটের [illegible] নিয়ন্ত্রণ করতে পারে।
- [illegible] বিটের [illegible] নিয়ন্ত্রণ করতে পারে।
- MOSFET [illegible] ভোল্টেজ [illegible] প্রয়োজন [illegible]

[illegible] MOSFET [illegible] MOSFET [illegible]

/ A (Depletion mode) ; B (Enhancement mode)

[illegible]

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(a) [illegible]

(b) [illegible]

(c) [illegible]

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(i) [illegible]

(ii) [illegible]

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(i) [illegible]

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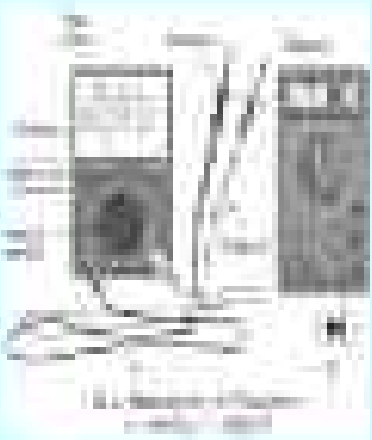

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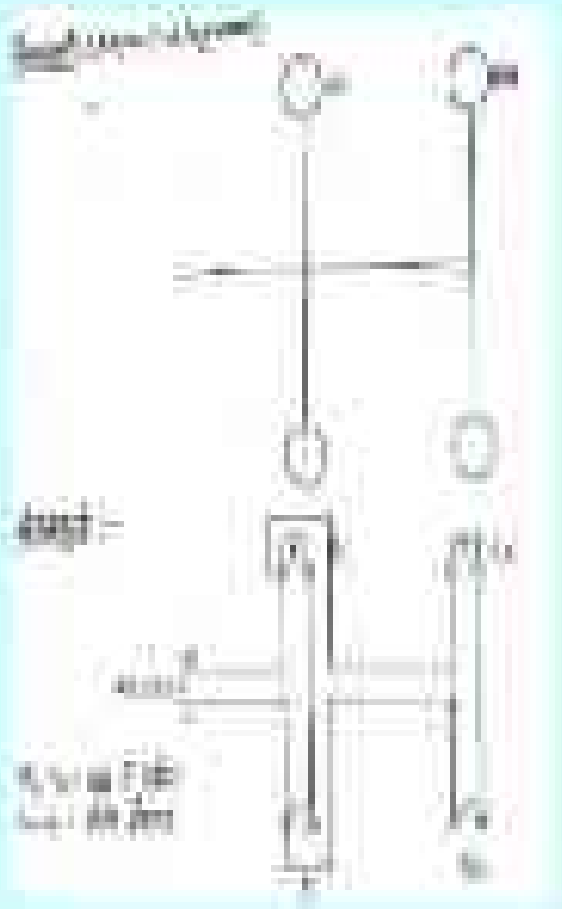
आकृति



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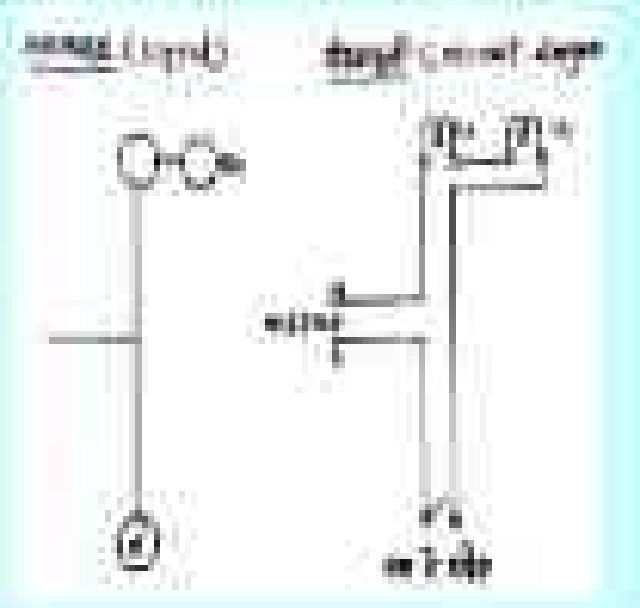

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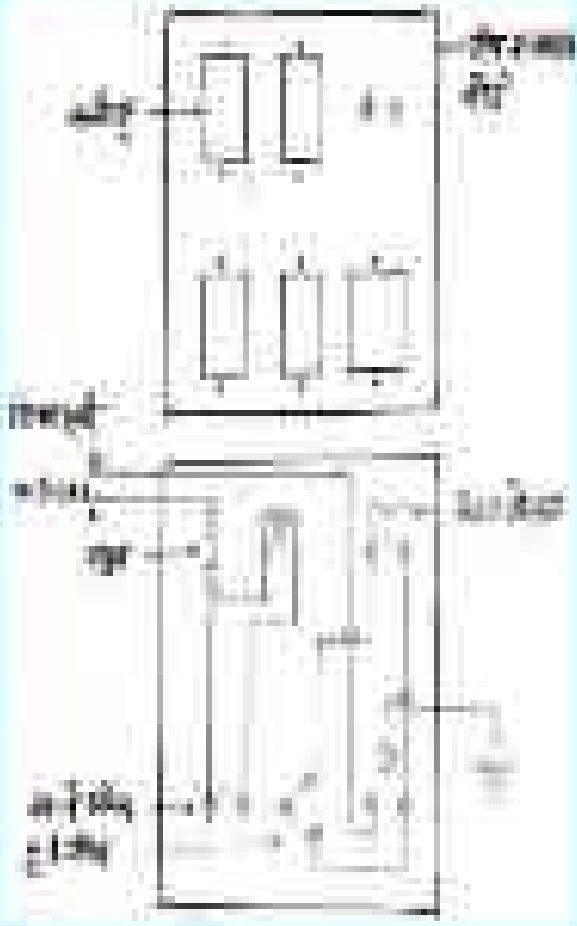

(ख) (i) दिए गए चित्र का नामांकन करें।

(i) इसकी कोशिकाओं के नाम लिखें।

(iii) इसके एक मुख्य कार्य के लिए उत्तरदायी कोशिकाओं के नाम लिखें।

(ग) (i) [illegible]

(ii) [illegible]