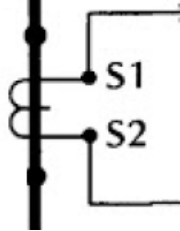


Module 8 : Transformer

Name:	Date:
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Part A: Multiple choice question (MCQ)

- | | |
|---|--|
| <p>1) What does the meaning of "step up" in transformer?</p> <p>(a) increase power
(b) increase current
(c) increase frequency
(d) increase voltage</p> <p>2) The secondary winding properties of a step up transformer is correct, except.</p> <p>(a) secondary coil have many turns
(b) current is low
(c) higher voltage possible
(d) low power generated</p> <p>3) The followings are the types of core material made for a transformer, except.</p> <p>(a) iron core
(b) aluminium core
(c) steel core
(d) air core</p> <p>4) The power of transformer in the primary is ____ with secondary. The best answer filling the blank is.</p> <p>(a) same
(b) higher
(c) lower
(d) unity</p> <p>5) Which of the correct unit for burden of a transformer?</p> <p>(a) volts
(b) ampere
(c) watt
(d) volt-ampere</p> | <p>6) The electromagnetic induction was discovered by.</p> <p>(a) Micheal Wong
(b) Joseph Faraday
(c) Michael Henry
(d) Michael Faraday and Joseph Henry</p> <p>7) The primary of a transformer refers to.</p> <p>(a) motor winding
(b) connected from incoming supply source
(c) connected from outgoing supply
(d) connected to a motor</p> <p>8) Magnetic field induces a varying electromotive force in the secondary winding, this effect is called.</p> <p>(a) flux density
(b) magnetic flux
(c) mutual induction
(d) mutual magnetic field</p> <p>9) The $V_p=1000v$, $V_s=320v$, $N_p=1800T$, find the value of N_s?</p> <p>(a) 576 T
(b) 2005 T
(c) 2305 T
(d) 3540 T</p> <p>10) The $V_p=220v$, $N_p=500T$, $N_s=220T$, find the value of V_s ?</p> <p>(a) 35.3 volt
(b) 64.5 volt
(c) 96.8 volt
(d) 120.8 volt</p> |
|---|--|

- 11) This transformer is used to supply electricity to every areas. The suitable type of transformer describe is.
- isolation transformer
 - power transformer
 - voltage transformer
 - distribution transformer
- 12) This is a small unwanted current floating in the core material known as.
- distortion current
 - harmonics current
 - eddy current
 - hysteresis current
- 13) This transformer is used to protect against electric shock and to suppress electrical noise. The best answer describes above is.
- isolation transformer
 - power transformer
 - voltage transformer
 - current transformer
- 14) Auto transformer is best used for...
- to increase voltage
 - to increase power
 - to reduce voltage to a fixed value
 - to reduce current to a fixed value
- 15) Which is the common method of cooling a transformer?
- ONAF – Oil Natural Air Force
 - OFAF – Oil Forced Air Natural
 - OFWF – Oil Forced Water Forced
 - ONAN – Oil Natural Air Natural
- 16) The instrument transformer is best apply for purpose.
- measurement of reactive power
 - measurement of voltage
 - measurement of cos meter
 - measurement of power
- 17) Voltage transformer is also known as.
- electron transformer
 - current transformer
 - potential transformer
 - power transformer
- 18) 
- Refer to figure above, the S2 is commonly connected to where?
- earth terminal
 - voltage transformer
 - current transformer
 - power transformer
- 19) Refer to figure question 18, what is the maximum current output from this device?
- 10 ampere
 - 5 ampere
 - 2.5 ampere
 - 1 ampere
- 20) The concept of knee point voltage is act as.
- protection current transformer
 - protection voltage transformer
 - protection power transformer
 - protection isolation transformer

Part B: Subjective Question

1) List down three(3) reasons transformer is generate heat.

- i)
- ii)
- iii)

2) List down five (5) types of transformer

- i)
- ii)
- iii)
- iv)
- v)

3) List four (4) types of cooling method in transformer. (10 marks)

- i)
- ii)
- iii)
- iv)

4) a) Given the value of $V_p = 400v$, $V_s=90v$, $I_p=35A$, find I_s ?

.....
.....

b) Given the value of $V_p = 400v$, $V_s=90v$, $I_p=35A$, find I_s ?

.....
.....

5) List down four (4) application of transformer.

- i)
- ii)
- iii)
- iv)

Answer Scheme for Exercise

Part A : MCQ

1) D	11) D
2) D	12) C
3) B	13) A
4) A	14) C
5) D	15) D
6) D	16) B
7) B	17) C
8) C	18) A
9) A	19) B
10) C	20) A