

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : B.E., /EEE	Year / Semester : II/III	Format No.	NAC/TLP-07a.13
Subject Code :EE8301	Subject Name : Electrical Machines I	Rev. No.	02
Unit No : II	Unit Name : Transformer	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	BTL
1	Transformer cores are laminated in order to..... A. Minimise eddy current loss B. Reduce cost C. Simplify its construction D. hysteresis loss	L3
2	A step-up transformer increases..... A. Voltage B. Current C. Power D. Frequency	L2
3	A transformer transform..... A. Voltage B. Current C. Frequency D. Voltage and current	L3
4	A transformer has negative voltage regulation when its load power factor is A. Zero B. Unity C. Leading D. Lagging	L2
5	The main purpose of performing open-circuit test on a transformer is to measure its..... A. Cu loss B. Core loss C. Total loss D. Insulation resistance	L2
6	The chemical used in breather is A.Asbestos fibre B.Silica sand C.Sodium chloride D.Silica gel	L2
7	A Buchholz relay can be installed on E. Auto-transformers F. Air-cooled transformers G.Welding transformers H.Oil cooled transformers	L3
8	Material used for construction of transformer core is usually A. 0.4mm to 0.5 mm B. 4mm to 5 mm C. 14mm to 15 mm D. 25mm to 40 mm	L4
9	Helical coils can be used on	L1

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	<p>A. Low voltage side of high kVA transformers B. High frequency transformers C. High voltage side of small capacity transformers D. High voltage side of high kVA rating transformers</p>	
10	<p>The transformer ratings are usually expressed in terms of A. Volts B. Amperes C. kW D. kVA</p>	L2
11	<p>The value of flux involved in the emf equation of a transformer is A. rms value B. rms value C. Maximum value D. Instantaneous value</p>	L3
12	<p>The main advantage of auto transformer over a two winding transformer is A. Hysteresis losses are reduced B. Saving in winding material C. Copper losses are negligible D. Eddy losses are totally eliminated</p>	L4
13	<p>During short circuit test iron losses are negligible because A. The current on secondary side is negligible B. The voltage on secondary side does not vary C. The voltage applied on primary side is low D. Full-load current is not supplied to the transformer</p>	L1
14	<p>Which of the following properties is not necessarily desirable in the material for transformer core? A. Mechanical strength B. Low hysteresis loss C. High thermal conductivity D. High permeability</p>	L2
15	<p>The main reason for generation of harmonics in a transformer could be A. Fluctuating load B. Poor insulation C. Mechanical vibrations D. Saturation of core</p>	L3
16	<p>A transformer transforms A. frequency B. voltage C. current D. voltage and current</p>	L4
17	<p>Which is not the basic element of the transformer? A. core B. primary winding C. secondary winding D. mutual flux</p>	L1
18	<p>the main purpose of using core in a transformer is to A. Decrease iron losses B. prevent eddy current loss C. eliminate magnetic hysteresis</p>	L2

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D. decrease reluctance of the common magnetic circuit		
19	Transformer cores are built up from laminations rather than from solid metal so that A. Oil penetrates the core more easily B. Eddy current loss is reduced C. Less lamination is required for the windings D. Turn ratio is higher than voltage ratio	L2
20	The transformer core is laminated to A. Reduce the copper losses B. Reduce the core losses C. Reduce the eddy current losses D. None of the above	L3
21	Which type of loss is not common to transformer and rotating machines? A. Eddy current loss B. Copper loss C. Hysteresis loss D. Windage loss	L4
22	A step-up transformer increases A. voltage B. current C. power D. frequency	L1
23	The frequency of the secondary voltage of a transformer will be..... A. less than frequency of the primary voltage B. equal to the primary voltage C. greater than the frequency of the primary voltage D. much greater than the frequency of the primary voltage	L2
24	The efficiency of a transformer is maximum when A. It runs at half full load B. it runs at full load C. its Cu loss equal iron loss D. it runs over load	L3
25	In an ideal transformer A. windings have no resistance B. core has no losses C. core has infinite permeability D. all of the above	L4