

Reliance ELECTRICAL Questions

1) 12 at angle of 30

a) $6+j6$ b) $0.5+j6$ c) $10.392+j6$

2) color of Silica gel

a) pale yellow b) pale blue c) pale green

3) what is logic gate called two switches in series

a) AND b) NAND c) OR d) NOR Ans: AND

4) Binary equivalent of 15 ans: 1111

5) Laplace transform of impulse function. Ans: 1

6) SF₆ gas is a _____

Ans: electronegative gas

7) which relay is used to protect transformers when internal faults occur

a) Buchholz b) differential c) over current relay d) distance relay

ans: Buchholz relay

8) In a line when faults occur which one operates first

a) fuse b) under voltage relay c) Zero current Relay d) None

9) Question on corona i.e., production of ozone gas, hissing noise, power loss

10) In 3 phase induction motor slip=4%, speed=750 rpm, 4 pole, find frequency?

11) one question on Ferranti effect

12) The most commonly used insulation in high voltage cables

a) PVC b) oil filled cables c) gas pressure cables refer under ground cables

13) Form factor = rms value / Avg value

14) How to find R_{th} in Thevenin's theorem

a) all voltage sources dead

b) all current sources dead

c) both voltage and current sources dead

d) all independent sources dead

15) which lamp consumes more current

a) Fluorescent b) Halogen c) Incandescent d) sodium

16) X'' is a new reactance, name plate details of induction motor 20KV and 100 MVA are given and also base units are given 25 KV, 500 MVA, old reactance is 0.25 find new reactance.

a) $4/125$ b) $5/125$ c).....

17) In a transmission line delta connection draws 45 amps then what about star connection draws

18) one question on chopper

a) changes i/p voltage b) changes waveform of i/p voltage.....

19) which circuit breaker is used for high voltage & low currents

a) air blast b) oil cb c) MOCB..... i don't know the correct options

20) which relay is used to protect generators and motors

a) distance b) differential c) over current

21) simple problem on transformer like 200/400, 10 KVA, iron and copper losses are given we have to find efficiency

22) In a transformer working on 400 hz is made to work on 50 hz then its power will become
ans: b

a) $1/4$ reduced b) $1/8$ reduced c) $1/3$ reduced d) $1/5$ reduced

23) In a circuit, shunt element is placed in order to

a) increase voltage b) increase current.....

24) which converts decimal to binary

a) encoder b) decoder c) assembler

25) one simple problem on EMF equation of a generator

26) The footcandle (lumen per square foot)

27) The lux is one lumen/meter²

28) some question on alternator when supply is not given and having constant (I hav not remember the question)

a) acts as synchronous motor

b) run as synchronous motor in same direction

c) run as synchronous motor in reverse direction

29) In a transformer equivalent primary resistance as referred to secondary is ans: k^2R_1

Refer in options s is also given a) $s k^2R_1$ b) k^2R_1 /s c) k^2R_1/s^2

30) some questions on circuit breakers like.....

The voltage that appears across the contacts of the circuit breaker during the arcing period

a) arc voltage b) Restriking voltage c) Recovery voltage ans: a

31) The transient voltage that appears across the contacts at or near current zero during arcing period.

a)arc voltage b) Restriking voltage c)Recovery voltage ans: b

32)The voltage that appears across the contacts of the circuit breaker after final arc extinction.

a)arc voltage b) Restriking voltage c)Recovery voltage ans:c

33)Question on Electrical field strength ans is 30KV/cm