

# Gujarat Energy Transmission Corporation Limited

## Notations :

- Options shown in green color and with ✓ icon are correct.
- Options shown in red color and with ✗ icon are incorrect.

<b>Question Paper Name:</b>	VS Jr Engineer Electrical Actual Set 2
<b>Subject Name:</b>	VS Jr Engineer Electrical
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<b>Duration:</b>	60
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## Electrical

Group Number :	1
Group Id :	6
Group Maximum Duration :	0
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Revisit allowed for view? :	No
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Break time:	0
Group Marks:	100.0

## VS Jr. Engineer- Electrical

Section Id :	6
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	100
Number of Questions to be attempted:	100
Section Marks:	100.0

Sub-Section Number:	1
Sub-Section Id:	6
Question Shuffling Allowed :	Yes

**Question Number : 1 Question Id : 501 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.0**

Two heaters, rated at 500W 250 V each are connected in series across a 250V, 50 Hz mains. The total power drawn from the supply would be \_\_\_\_\_watt

## Options :

- ✗ 500
- ✓ 250
- ✗ 1000

4. ✘ 125

Question Number : 2 Question Id : 502 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The RMS value of the voltage  $u(t) = 3 + 4\cos(3t)$  is:

Options :

1. ✘ 5

2. ✔ 4.12

3. ✘ 7

4. ✘  $3+2(1.41)$

Question Number : 3 Question Id : 503 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The instantaneous value of power in purely inductive circuit is

Options :

1. ✘ constant

2. ✔ changing

3. ✘ zero

4. ✘ none of this

Question Number : 4 Question Id : 504 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In the Standard B-H curve X axis and Y axis intercepts respectively represents

Options :

1. ✔ residual magnetism and coercive force

2. ✘ Coercive force and residual magnetism

3. ✘ Hysteresis loss and Flux

4. ✘ Flux and MMF

Question Number : 5 Question Id : 505 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Two watt meter method for 3 phase circuit is preferred over other methods because

Options :

1. ✘ Pf of the load can also be estimated

2. ✘ it can be used for star or delta connected load

3. ✘ it can be used for balanced or unbalanced load

4. ✔ all are correct

Question Number : 6 Question Id : 506 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Laplace transforms is used for

Options :

1. ✘ finding transfer function of any systems

2. ✘ converting non linear equation to linear equation

3. ✔ converting differential equation to algebraic equation

4. ✘ for finding initial condition in a system

Question Number : 7 Question Id : 507 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

"Overshoot" in a time response of control systems is indication of

Options :

1. ✘ final value of the out put
2. ✔ measure of relative stability
3. ✘ steady state solution
4. ✘ none of this

Question Number : 8 Question Id : 508 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Root Locus is locus of the ..

Options :

1. ✘ open loop poles to open loop zeros
2. ✘ Open loop zeros to close poles
3. ✘ close loop poles to close loop zeros
4. ✔ close loop poles

Question Number : 9 Question Id : 509 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Which of the following is the most likely reason for large overshoot in a control system?

Options :

1. ✘ High gain in a system
2. ✘ presence of dead time delay
3. ✔ high positive correcting torque
4. ✘ high retarding torque

Question Number : 10 Question Id : 510 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

When the load is suddenly increased in the receiving end of the system, the phase shift will

Options :

1. ✘ Not affected
2. ✔ Increase
3. ✘ decrease
4. ✘ remains same

Question Number : 11 Question Id : 511 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In G-S method of power flow problem, the number of iterations ...

Options :

1. ✘ depends on no of buses
2. ✔ depends on tolerance
3. ✘ depends on voltage control buses
4. ✘ remains fixed

Question Number : 12 Question Id : 512 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In load flow analysis, the load at the bus is represented as

Options :

- ✘ a voltage dependent impedance at the bus
- ✘ a constant impedance connected at the bus
- ✘ a constant current drawn from the bus
- ✔ none of this

Question Number : 13 Question Id : 513 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

The constraints that are to be met with while solving UC problem are

Options :

- ✘ Spinning reserve
- ✘ Minimum up time
- ✘ Minimum down time
- ✔ all are correct

Question Number : 14 Question Id : 514 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

100 % String efficiency means

Options :

- ✘ One of the insulator discs shorted
- ✘ Zero potential across each disc
- ✘ None uniform potential distribution across each disc
- ✔ Equal potential across each disc

Question Number : 15 Question Id : 515 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Critical clearing time of a fault in a power system is related to

Options :

- ✘ Reactive power limit
- ✘ Short circuit limit
- ✔ Transient stability limit
- ✘ Steady state limit

Question Number : 16 Question Id : 516 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Fast excitation system of the generator will ...

Options :

- ✘ Improve the voltage control
- ✘ Improve the power factor
- ✘ improve the reactive power control
- ✔ improve the dynamic stability

Question Number : 17 Question Id : 517 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

The Z matrix of 2 port network is given by  $[0.9 \ 0.2; 0.2 \ 0.6]$  The element Y22 of the corresponding Y matrix of the same network is given by

Options :

- ✘ 1.2
- ✘ -0.4

3. ✓ 1.8

4. ✗ 0.4

Question Number : 18 Question Id : 518 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The Y bus matrix is a sparse matrix because ...

Options :

1. ✗ bus incidence matrix is a sparse matrix

2. ✗ Y primitive is a sparse matrix

3. ✓ lines are connected to less no. of buses

4. ✗ no of lines are less

Question Number : 19 Question Id : 519 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In a power system network, At which bus the shunt is connected that can be known from

Options :

1. ✗ reactive power demand

2. ✗ type of bus

3. ✓ Y bus of the system

4. ✗ none of this

Question Number : 20 Question Id : 520 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Steady state stability of a power system is improved by

Options :

1. ✗ reducing fault clearing time

2. ✓ using double circuit line instead of single circuit line

3. ✗ by fast switching

4. ✗ decreasing generator inertia

Question Number : 21 Question Id : 521 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In a thermal power plant, heat from the flue gases is recovered in

Options :

1. ✓ Economizer

2. ✗ Electric precipitator

3. ✗ condenser

4. ✗ chimney

Question Number : 22 Question Id : 522 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The line current in a three phase unbalanced load are  $I_r = 4 + j6$ ,  $I_b = 2 - j2$  and  $I_c = -3 + j2$ , then zero sequence component of current will be

Options :

1. ✗  $3 + j6$

2. ✗  $9 + j10$

3. ✓  $1 + j2$

4. ✗  $3 - j6$

Question Number : 23 Question Id : 523 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The surge Impedance loading of the line will be \_\_\_\_\_ if the length of the line is doubled

Options :

1. ✘ doubled
2. ✘ four times
3. ✔ remains same
4. ✘ became half

Question Number : 24 Question Id : 524 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In case of a balanced three phase sinusoidal AC supply, because of the phase difference

Options :

1. ✘ neutral wire is not required, if load is balanced
2. ✘ rotating magnetic field is produced
3. ✘ neutral current is high if load is not balanced
4. ✔ all are correct

Question Number : 25 Question Id : 525 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

For formation of the Y bus matrix (using node voltage analysis) in power system network modelling\_\_\_\_\_ is used

Options :

1. ✘ KVL
2. ✔ KCL
3. ✘ Faraday's law
4. ✘ all are correct

Question Number : 26 Question Id : 526 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The rating of given on the name plate of a transformer indicates the:

Options :

1. ✘ True power which it can supply
2. ✘ Apparent power which it draws from the supply mains
3. ✔ Apparent power which it can supply
4. ✘ True power which it draws from the supply mains

Question Number : 27 Question Id : 527 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The magnitude of sum of two sinusoidal AC voltages is equal to the magnitude of each individual voltage  
What must be the phase difference between voltages?

Options :

1. ✘ 60
2. ✘ 90
3. ✔ 120
4. ✘ 180

Question Number : 28 Question Id : 528 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Power Factor correcting element is generally connected in ....

Options :

1. ✘ series with load
2. ✔ parallel to the load
3. ✘ series with source
4. ✘ parallel to source

Question Number : 29 Question Id : 529 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The PU impedance of a 1089 MVA, 33 kV generator is 1, the ohmic value of its impedance is:

Options :

1. ✔ 1
2. ✘ 10
3. ✘ 0.5
4. ✘ 100

Question Number : 30 Question Id : 530 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Select the wrong statement from the following in relation to power flow analysis

Options :

1. ✘ Y Bus is required for Power Flow analysis
2. ✘ Approximation is used in FDLF method
3. ✔ jacobian is always required
4. ✘ No of iteration in N R method can not be more than 30 for any system

Question Number : 31 Question Id : 531 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

To find the most accurate values of resistance and inductance of the transmission line

Options :

1. ✘ End condenser configuration is used
2. ✘ Pi configuration is used
3. ✘ T configuration is used
4. ✔ Distributed parameter configuration is used

Question Number : 32 Question Id : 532 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Penalty factor in power system economical operation is measure of

Options :

1. ✔ Line loss
2. ✘ generation cost
3. ✘ fuel cost
4. ✘ all are correct

Question Number : 33 Question Id : 533 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Normally the angle of the transmission line is kept \_\_\_\_\_ because of \_\_\_\_\_ reasons

Options :

1. ✔ 45, transient stability

- ✘ 90, Steady state stability
- ✘ 45, steady state
- ✘ 90, transient stability

Question Number : 34 Question Id : 534 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Which of the following is the wrong statement in terms of Slack bus?

Options :

- ✘ voltage and angle is specified at this bus
- ✘ it should be the largest generator bus in the system
- ✘ It should be located at the centre of the area
- ✔ it has finite reactive power generation capability

Question Number : 35 Question Id : 535 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Differential Equation is required to be solved in .....

Options :

- ✘ economical operation of power systems
- ✘ Load flow studies
- ✔ stability studies
- ✘ finding efficiency of a transmission line

Question Number : 36 Question Id : 536 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Which power plant may take several days to start up and shut down?

Options :

- ✘ Peak load
- ✔ Base load
- ✘ solar power plant
- ✘ none of these

Question Number : 37 Question Id : 537 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Fuel cell for power generation have drawback of..

Options :

- ✘ Noise, pollution and maintenance problems.
- ✔ Very high development costs.
- ✘ Low life span
- ✘ Synchronization problems

Question Number : 38 Question Id : 538 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

In comparison to steam plant, the annual fixed cost of nuclear plant is

Options :

- ✔ Quite high
- ✘ Quite low
- ✘ almost Equal
- ✘ Can't say



Question Number : 39 Question Id : 539 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The area under the load duration curve represents..

Options :

1. ✘ average load of the system
2. ✘ base load of the system
3. ✘ Maximum demand of the power station
4. ✔ energy generated in the period considered

Question Number : 40 Question Id : 540 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Which of the following is a reason to decouple AVR and LFC loops when there is a shortage of reactive power?

Options :

1. ✔ Change in voltage magnitude marginally affects real power
2. ✘ AVR loop response is slower than LFC loop
3. ✘ angle of the voltage is not considered
4. ✘ deferenceof error is the main reason

Question Number : 41 Question Id : 541 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

For a given transformer volte/turn for primary and secondary winding is

Options :

1. ✘ depends on transformer design
2. ✘ different
3. ✔ same
4. ✘ depends on load

Question Number : 42 Question Id : 542 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

No load efficiency of transformer is \_\_\_\_ than full load efficiency

Options :

1. ✘ same
2. ✔ lesser
3. ✘ greater
4. ✘ depends on load

Question Number : 43 Question Id : 543 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Speed of induction motor at rated torque is \_\_\_\_\_ than at maximum torque.

Options :

1. ✔ greater
2. ✘ same
3. ✘ depends on load
4. ✘ lesser

Question Number : 44 Question Id : 544 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The mechanical angle is \_\_\_\_ electrical angle

Options :

1. ✘ always less
2. ✘ same
3. ✘ greater than or equal to
4. ✔ lesser than or equal to

Question Number : 45 Question Id : 545 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Slip at maximum torque depends on

Options :

1. ✘ stator resistance
2. ✔ rotor resistance and reactance
3. ✘ stator reactance
4. ✘ load current

Question Number : 46 Question Id : 546 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Calculate torque developed by the 3-phase, 5 H.P., 4 pole induction motor runs at 1500 rpm

Options :

1. ✘ 23.5 N-m
2. ✘ 22 N-m
3. ✔ 0 N-m
4. ✘ 10 N-m

Question Number : 47 Question Id : 547 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Which of the following breaking method save energy?

Options :

1. ✔ regenerative breaking
2. ✘ plugging
3. ✘ dynamic breaking
4. ✘ resistor breaking

Question Number : 48 Question Id : 548 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

For eliminating 7th harmonics from generated EMF in alternator the fractional pitch must be

Options :

1. ✘  $2/3$
2. ✘  $5/6$
3. ✘  $7/8$
4. ✔  $6/7$

Question Number : 49 Question Id : 549 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

A transformer has negative voltage regulation when its load PF is

Options :

1. ✘ zero
2. ✔ leading

- ✘ unity
- ✘ lagging

Question Number : 50 Question Id : 550 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In Synchronous motor, V-Curve is a graph of

Options :

- ✔ Armature current Vs Field current
- ✘ Armature current Vs power factor
- ✘ Armature current Vs active power
- ✘ Armature current Vs reactive power

Question Number : 51 Question Id : 551 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Stray loss is equal to \_\_\_\_\_

Options :

- ✘ frictional loss & copper loss
- ✔ mechanical loss & iron loss
- ✘ copper loss and iron loss
- ✘ field copper loss & iron loss

Question Number : 52 Question Id : 552 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In a DC motor, back EMF value becomes maximum at .....

Options :

- ✘ full load
- ✔ 1/2 load
- ✘ no load
- ✘ 3/4 load

Question Number : 53 Question Id : 553 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Hopkinson's test is the test to be carried out on

Options :

- ✘ induction motor with any DC motor
- ✘ two identical induction motors
- ✔ two identical DC motor
- ✘ induction motor with synchronous motor

Question Number : 54 Question Id : 554 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In differential protection scheme, a stabilizing resistance connected to

Options :

- ✘ block harmonics
- ✘ increase the relay sensitivity
- ✘ increase the current limit
- ✔ reduce the effect of non identical CTs

**Question Number : 55 Question Id : 555 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.0**

An over-current relay of current rating 5 A and setting 150 % is connected to a 200/5 A CT. Then the relay to pickup, the line current required is

**Options :**

1. ✓ 300
2. ✗ 200
3. ✗ 100
4. ✗ 150

**Question Number : 56 Question Id : 556 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.0**

The fault occurring in transmission actually are mostly

**Options :**

1. ✗ L-L
2. ✓ L-G
3. ✗ L-L-L
4. ✗ L-L-G

**Question Number : 57 Question Id : 557 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.0**

The value of holding ratio of relay is always

**Options :**

1. ✓ less than 1
2. ✗ greater than 1
3. ✗ Infinite
4. ✗ zero

**Question Number : 58 Question Id : 558 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.0**

What is the surge impedance loading of 400kv line with surge impedance given as 160 ohms

**Options :**

1. ✗ 1000KW
2. ✗ 400MW
3. ✗ 250 MW
4. ✓ 1000MW

**Question Number : 59 Question Id : 559 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.0**

The power factor of the arc in circuit breaker is

**Options :**

1. ✗ always zero
2. ✗ always lagging
3. ✓ always unity
4. ✗ always leading

**Question Number : 60 Question Id : 560 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.0**

The relay which is most sensitive to power swings (mal operation ) is

Options :

1. ✘ Mho Relay
2. ✔ Reactance Relay
3. ✘ Impedance relay
4. ✘ over current relay

Question Number : 61 Question Id : 561 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The steady state stability of the power systems is most effected by

Options :

1. ✔ transmission line reactance
2. ✘ Voltage at generator bus
3. ✘ stability of generator
4. ✘ power factor of the load

Question Number : 62 Question Id : 562 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In case of HVDC transmission there is...

Options :

1. ✘ charging current but no skin effect
2. ✔ no charging current no skin effect
3. ✘ no charging current but skin effect
4. ✘ both charging effect and skin effect

Question Number : 63 Question Id : 563 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

HVDC transmission is preferred to EHV AC because

Options :

1. ✘ Its terminal equipment are inexpensive
2. ✘ VAR compensation is not required in it.
3. ✔ System stability can be improved
4. ✘ Harmonic problem is avoided.

Question Number : 64 Question Id : 564 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The insulation strength of an EHV transmission line is mainly governed by

Options :

1. ✘ Load power factor
2. ✔ Switching over voltages
3. ✘ Harmonics
4. ✘ Corona

Question Number : 65 Question Id : 565 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Earth wire on EHV overhead transmission line is provided to protect the line against

Options :

1. ✔ lightning surge
2. ✘ switching surge

- ✘ excessive fault voltages
- ✘ corona effect

Question Number : 66 Question Id : 566 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Shunt compensation in EHV line is resorted to

Options :

- ✘ Improve the stability
- ✘ Reduce the fault level
- ✘ increase line impedance
- ✔ Improve voltage profile

Question Number : 67 Question Id : 567 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Switching surges are

Options :

- ✘ high voltage DCs
- ✘ high voltage ACs
- ✔ short duration transient voltage
- ✘ power frequency voltage

Question Number : 68 Question Id : 568 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

During the insulation co-ordination in the sub station, the lowest insulation strength is at

Options :

- ✘ CTs and PTs
- ✔ transformer
- ✘ circuit breaker
- ✘ bus bar

Question Number : 69 Question Id : 569 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Current chopping phenomenon is related to

Options :

- ✘ resistance switching
- ✘ capacitance switching
- ✔ small inductive current
- ✘ asymmetrical current

Question Number : 70 Question Id : 570 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The breaking capacity of a CB is usually expressed in terms of

Options :

- ✘ amperes
- ✘ volts
- ✘ MW
- ✔ MVA

Question Number : 71 Question Id : 571 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Merz-Price protection is employed for protection of

Options :

1. ✘ motor
2. ✘ circuit breaker
3. ✘ transmission lines
4. ✔ alternators

Question Number : 72 Question Id : 572 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In sub stations for making and breaking of load current

Options :

1. ✘ isolators are used
2. ✘ circuit breakers are used
3. ✔ load interrupter switches are used
4. ✘ relays are used

Question Number : 73 Question Id : 573 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Which of the following is not function of substation batteries?

Options :

1. ✘ operating automatic control circuits
2. ✔ provide supply to the excitation system
3. ✘ emergency lighting circuits
4. ✘ operating protective relay systems

Question Number : 74 Question Id : 574 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Shunt capacitors in a substation

Options :

1. ✘ consumes lagging VAR
2. ✔ delivers lagging VAR
3. ✘ consume active power
4. ✘ deliver active power

Question Number : 75 Question Id : 575 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In a given current transformer, If permissible current ratio error rated primary current is 5 % the CT is suitable for

Options :

1. ✘ protection purpose
2. ✔ measuring purpose
3. ✘ both measuring and protection
4. ✘ as power transformer

Question Number : 76 Question Id : 576 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Which of the following is not true about fuel cells

Options :

1. ✘ cost is higher than batteries
2. ✘ no recharging is needed
3. ✘ more efficient
4. ✔ need more than two electrode

Question Number : 77 Question Id : 577 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Which of the following cable is extensively used for high tension and low tension work?

Options :

1. ✔ XLPE cable
2. ✘ VIR cable
3. ✘ PVC cable
4. ✘ TRS cable

Question Number : 78 Question Id : 578 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

For selecting low voltage cable which of the following factors is not important?

Options :

1. ✘ voltage grade
2. ✘ current carrying capacity
3. ✔ short circuit current rating
4. ✘ permissible voltage drop

Question Number : 79 Question Id : 579 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

In rotating electrical machines, the insulation temperature limit for class B type is

Options :

1. ✘ 1050 C
2. ✔ 1300 C
3. ✘ 1500 C
4. ✘ 1800 C

Question Number : 80 Question Id : 580 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

For given KVAR and line voltage the ratio of star to delta value of capacitor is

Options :

1. ✘ 0.3333333333333333
2. ✘ 1.73
3. ✘ 1
4. ✔ 3

Question Number : 81 Question Id : 581 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Who is the vice president of India?

Options :

1. ✘ O. P. Kohli
2. ✘ Nazama heptulla



3. ✓ Dr. Hamid Ansari
4. ✗ Pranav Mukharjee

Question Number : 82 Question Id : 582 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Which of the following award was not awarded to late Dr. Abdul Kalam?

Options :

1. ✗ Padma Bhushan
2. ✓ Veer Chakra
3. ✗ Padma Vibhushan
4. ✗ Bharat Ratna

Question Number : 83 Question Id : 583 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Jyotigram Yojana is pertaining to

Options :

1. ✓ Supplying residential and other power separately
2. ✗ Supplying 100 % reliable power to villages
3. ✗ Developing agricultural land
4. ✗ Supplying 100 % reliable power for street light of villages

Question Number : 84 Question Id : 584 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Who is the 2012 London Olympics bronze medalist in badminton?

Options :

1. ✗ Sania
2. ✓ Saina
3. ✗ Ashwini Ponnappa
4. ✗ Jwala Gutta

Question Number : 85 Question Id : 585 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Light from the nearest star (other than the sun) reaches the earth in

Options :

1. ✗ 42 secs
2. ✗ 4.2 minutes
3. ✗ 4.2 hours
4. ✓ 4.2 years

Question Number : 86 Question Id : 586 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Who was the political Guru of Netaji?

Options :

1. ✗ Sardar Patel
2. ✗ Lokmanya Tilak
3. ✓ C. R. Das
4. ✗ Gokhle

Question Number : 87 Question Id : 587 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The President of India must have completed the age of-

Options :

1. ✘ 30 Yrs
2. ✘ 50 Yrs
3. ✘ 21 Yrs
4. ✔ 35 Yrs

Question Number : 88 Question Id : 588 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Who is the Energy and Petrochemicals minister of Gujarat?

Options :

1. ✘ Anandiben Patel
2. ✔ Saurabh Patel
3. ✘ Nitin Patel
4. ✘ Bhupendrasinh Chudasama

Question Number : 89 Question Id : 589 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Which city is capital of Meghalaya?

Options :

1. ✘ Dispur
2. ✘ Imphal
3. ✘ Itanagar
4. ✔ Shilong

Question Number : 90 Question Id : 590 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

'Kathakali' is a folk dance prevalent in which state?

Options :

1. ✘ Karnataka
2. ✘ Orissa
3. ✔ Kerala
4. ✘ Andhra Pradesh

Question Number : 91 Question Id : 591 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The recent Mahakumbh is held at

Options :

1. ✔ Nasik
2. ✘ Alahabad
3. ✘ Ujjain
4. ✘ Haridwar

Question Number : 92 Question Id : 592 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

The National Song of India was composed by

Options :

1. ✘ Rabindranath Tagore
2. ✔ Bankim Chandra Chatterji
3. ✘ Iqbal
4. ✘ Jai Shankar Prasad

Question Number : 93 Question Id : 593 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

In which of the following festivals are boat races a special feature?

Options :

1. ✔ Onam
2. ✘ Rongali Bihu
3. ✘ Pongal
4. ✘ Navratri

Question Number : 94 Question Id : 594 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Which Indian hindi movie is released most recently?

Options :

1. ✘ Aisa Yeh Jahaan
2. ✘ Bin Roye
3. ✔ Drishyam
4. ✘ Bajrangi Bhaijaan

Question Number : 95 Question Id : 595 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

What is the synonyms of 'Pragmatic'?

Options :

1. ✘ Arrogant
2. ✔ Practical
3. ✘ Uncertain
4. ✘ Magnetic

Question Number : 96 Question Id : 596 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

What is the Antonyms of 'ENIGMA'?

Options :

1. ✘ Demise
2. ✘ Energetic
3. ✘ Mystery
4. ✔ Understood

Question Number : 97 Question Id : 597 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.0

Oil is mostly \_\_\_\_\_ by trucks in India.

Options :

1. ✘ transfer
2. ✔ transmit
3. ✘ transport

4. ✘ deliver

Question Number : 98 Question Id : 598 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

I \_\_\_\_\_ tennis every Sunday morning.

Options :

1. ✔ play

2. ✘ am playing

3. ✘ am play

4. ✘ playing

Question Number : 99 Question Id : 599 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

Babies \_\_\_ when they are hungry.

Options :

1. ✘ cries

2. ✔ cry

3. ✘ is crying

4. ✘ are crying

Question Number : 100 Question Id : 600 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.0

I am looking \_\_\_\_\_ my pen. Have you seen it?

Options :

1. ✘ after

2. ✘ at

3. ✔ for

4. ✘ to