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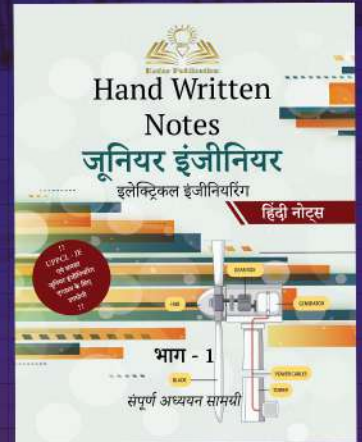
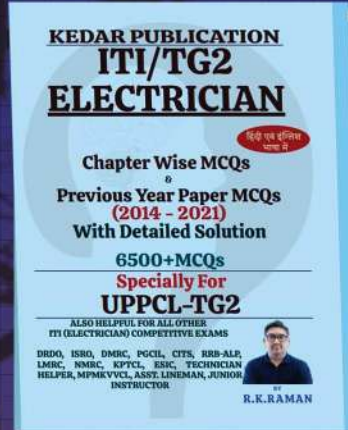
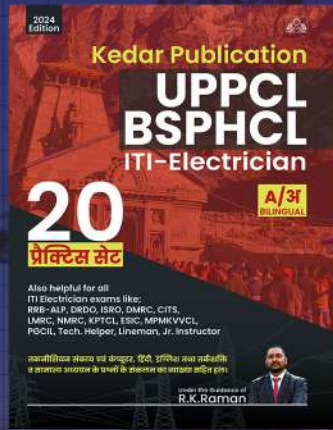
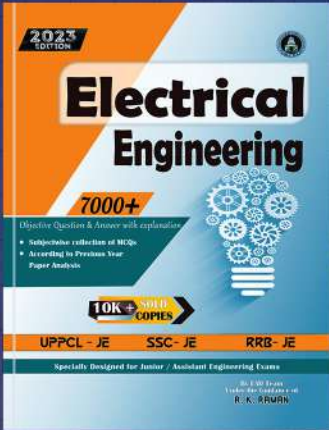
Objective Book for

Electrical-JE

UPPCL BSPHCL

ITI-Electrician

JE Short Notes



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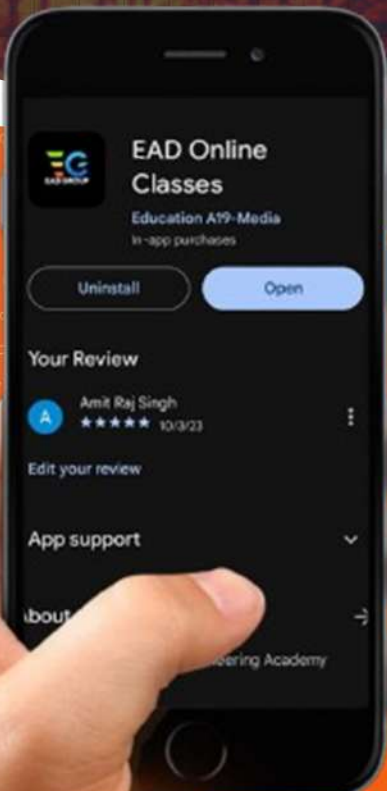
Exam Targeted:-

UPPCL-JE, SSC-JE RRB-JE

PGCIL-DT,DFCCIL-JE, ITI Etc.



Raman sir
Electrical Engg. Expert



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Exam Date: **06-Jan-2022**

Exam Time: **16:00-18:00**

Post Name: **Vidyut Sahayak Junior Engineer - Electrical**

General Knowledge - General Knowledge

Question No.1

Marks: 1.00

Bookmark

Who presides over the meetings of Municipal Corporation?

- (A) Municipal Commissioner
- (B) **Mayor (Correct Answer)**
- (C) District Magistrate
- (D) Speaker of the state Assembly

Question No.2

Marks: 1.00

Bookmark

Which of the following organisations publishes the "Human Development Report"?

- (A) **United Nations Development Programme (Correct Answer)**
- (B) International Atomic Energy Agency
- (C) World Intellectual Property Organisation
- (D) United Nations Environment Programme

Question No.3

Marks: 1.00

Bookmark

The Securities and Exchange Board of India was established in the year:

- (A) 1994
- (B) **1992 (Correct Answer)**
- (C) 1991
- (D) 1993

Question No.4

Marks: 1.00

Bookmark

What is the expansion of PCR in Biotechnology?

- (A) Peptide Chain Reaction
- (B) Physical Chain Reaction
- (C) Procedural Chain Reaction
- (D) **Polymerase Chain Reaction (Correct Answer)**

Question No.5

Marks: 1.00

Bookmark

In which state "Valley of Flowers National Park" is situated?

-

- (A) Himachal Pradesh
(B) Uttarakhand (Correct Answer)
(C) Jammu and Kashmir
(D) Punjab

Question No.6

Marks: 1.00

Bookmark

COVID-19 Shri Shakti Challenge was organized by MyGov in collaboration with _____.

- (A) BRICS
(B) Shanghai Cooperation Organisation
(C) World Economic Forum
(D) UN Women (Correct Answer)

Question No.7

Marks: 1.00

Bookmark

In which year was the Gandhi - Irwin Pact signed that consented Gandhiji to participate in the Round Table Conference?

- (A) 1930
(B) 1931 (Correct Answer)
(C) 1929
(D) 1927

Question No.8

Marks: 1.00

Bookmark

Which English political scientist had described the Preamble as the 'keynote' to the Indian Constitution?

- (A) John Stuart Mill
(B) Sir Ernest Barker (Correct Answer)
(C) Edmund Burke
(D) Granville Austin

Question No.9

Marks: 1.00

Bookmark

When was the order dividing the province of Bengal into two parts issued by Lord Curzon?

- (A) 1903
(B) 1900
(C) 1905 (Correct Answer)
(D) 1907

Question No.10

Marks: 1.00

Bookmark

Which part of the brain controls the involuntary actions such as salivation and blood pressure?

- (A) Pitutary Gland
(B) Cerebrum
(C) Cerebellum

(D) **Medulla (Correct Answer)**

English Knowledge - English Knowledge

Question No.1

Marks: 1.00

Bookmark

Fill in the blanks with suitable Preposition from the given alternatives.
My brother lives _____ the building at the end of the crosscut road.

- (A) **in (Correct Answer)**
- (B) since
- (C) across
- (D) over

Question No.2

Marks: 1.00

Bookmark

Fill in the blanks with suitable Article from the given alternatives.
_____ Dominic Thiem is an Austrian professional tennis player.

- (A) An
- (B) A
- (C) **No Article (Correct Answer)**
- (D) The

Question No.3

Marks: 1.00

Bookmark

Choose the best option from the given alternatives which can be substituted for the given word/sentence.

A home for children without parents

- (A) Catastrophe
- (B) Sporadic
- (C) Widow
- (D) **Orphanage (Correct Answer)**

Question No.4

Marks: 1.00

Bookmark

Choose the word which expresses nearly the **opposite** meaning of the given word "**COMMOTION**".

- (A) Upset
- (B) Bustle
- (C) **Silence (Correct Answer)**
- (D) Agitation

Question No.5

Marks: 1.00

Bookmark

Choose the word which best expresses the similar **meaning** of the given word "**INDULGENT**".

- (A) **Favorable (Correct Answer)**
- (B) Strict
- (C) Belligerent

(D) Moderate

Question No.6

Marks: 1.00

Bookmark

Choose the best option from the given alternatives which can be substituted for the given word/sentence.

The act of intentionally killing oneself

- (A) Genocide
- (B) Infanticide
- (C) Sororicide
- (D) **Suicide (Correct Answer)**

Question No.7

Marks: 1.00

Bookmark

From the given alternatives, choose the one that best expresses the meaning of the given idiom/phrase.

Dog days.

- (A) To make someone angry or irritated
- (B) In small irregular quantities
- (C) Date on which two couples go together
- (D) **Hot, sultry days (Correct Answer)**

Question No.8

Marks: 1.00

Bookmark

Choose the word which best expresses the similar meaning of the given word " POTENCY ".

- (A) Laziness
- (B) Inability
- (C) Apathy
- (D) **Capacity (Correct Answer)**

Question No.9

Marks: 1.00

Bookmark

Replace the underlined phrase grammatically and conceptually with the help of the given options.

If the given sentence is correct then select the option 'The given sentence is correct'.

Australian sea lions are fascinating and playful underwater antics that never stop in South Australia's Port Lincoln.

- (A) is fascinating and playful underwater antics that
- (B) **The given sentence is correct (Correct Answer)**
- (C) fascinating and playful underwater antics that
- (D) are fascinating and playful underwater antics whose

Question No.10

Marks: 1.00

Bookmark

Find the word which is correctly spelt from the given options.

- (A) **Erudite (Correct Answer)**
- (B) Introvert

- (C) Unintelligible
(D) Cardiologist

Electrical Engineering - Electrical Engineering

Question No.1

Marks: 1.00

Bookmark

At an Industrial substation with a 4 MW load a capacitor of 3 MVAR is installed to maintain the load power factor at 0.97 lag. If the capacitor goes out of service, the load power factor becomes

- (A) 0.641 lag
(B) **0.707 lag (Correct Answer)**
(C) 0.97 lag
(D) 0.86 lag

Question No.2

Marks: 1.00

Bookmark

Thyristor Controlled Series Capacitor (TCSC) is a

- (A) **Series compensation device (Correct Answer)**
(B) Shunt compensation device
(C) Combined Series-Shunt compensation device
(D) None of these

Question No.3

Marks: 1.00

Bookmark

When the lead-acid battery is in fully discharged condition, the colour of its positive plate will be

- (A) dark brown
(B) black
(C) **white (Correct Answer)**
(D) grey

Question No.4

Marks: 1.00

Bookmark

During charging, the specific gravity of the electrolyte of a lead-acid battery

- (A) remains the same
(B) **increases (Correct Answer)**
(C) becomes zero
(D) decreases

Question No.5

Marks: 1.00

Bookmark

Select the incorrect statement about SCADA.

- (A) Master units are larger computer consoles that act as the central processing hub for the entire SCADA system.
(B) SCADA refers to a system that collects data from various sensors at a factory, plant or in other remote locations and then sends this data to a central computer which then manages and controls the data.

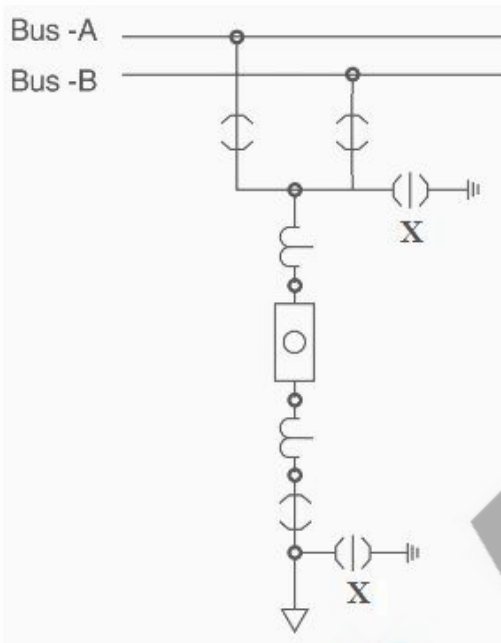
- (C) A SCADA system will only monitor and never make changes to the operations. (Correct Answer)
- (D) The Master unit offers a human-machine interface to the system and automatically regulate the managed system based on the response of inputs created by sensors.

Question No.6

Marks: 1.00

Bookmark

Figure 1 shows a single line diagram of a double bus section at a substation. Identify the name of the element 'X'.



- (A) Surge arrestor
- (B) Disconnector switch
- (C) Circuit breaker
- (D) Earth switch (Correct Answer)

Question No.7

Marks: 1.00

Bookmark

In comparison to Air insulated substation, Gas Insulated Substation (GIS) is more advantageous due to

- (i) compactness
 (ii) less maintenance
 (iii) high electromagnetic compatibility

Select the correct answer using the code given below:

- (A) (i) and (ii) (Correct Answer)
- (B) (i) and (iii)
- (C) (ii) and (iii)
- (D) (i), (ii) and (iii)

Question No.8

Marks: 1.00

Bookmark

A 500/5 A, 50 Hz CT has a bar primary. The secondary burden is a pure resistance of 1 Ω

and it draws a current of 5 A. If the magnetic core requires 300 AT for magnetization, the percentage error is

- (A) - 14.25% (Correct Answer)
- (B) - 13.45%
- (C) 14.25%
- (D) 13.45%

Question No.9

Marks: 1.00

Bookmark

Biogas is produced when anaerobic bacteria digest organic matters in absence of oxygen. The process is called

- (A) Anaerobic digestion (Correct Answer)
- (B) Anaerobic drying
- (C) Anaerobic reduction
- (D) Anaerobic oxidation

Question No.10

Marks: 1.00

Bookmark

What distance does a one meter length wind turbine blade tip travel to complete one revolution?

- (A) 4.71 m
- (B) 1.57 m
- (C) 3.14 m
- (D) 6.28 m (Correct Answer)

Question No.11

Marks: 1.00

Bookmark

Consider the following statements and select the correct answer:

Statement 1: Series capacitor increases the load angle for the same amount of power transfer with constant values of sending end and receiving end voltages.

Statement 2: Series capacitor helps to equalize the power sharing between the lines.

- (A) Statement 1 is TRUE and Statement 2 is FALSE
- (B) Both Statement 1 and Statement 2 are FALSE
- (C) Statement 1 is FALSE and Statement 2 is TRUE (Correct Answer)
- (D) Both Statement 1 and Statement 2 are TRUE

Question No.12

Marks: 1.00

Bookmark

The fault current limiters

- (i) insert zero impedance in the system when there is no fault
- (ii) insert large impedance when fault occur in the system
- (iii) reduce the short-circuit current of the system

Select the correct statement.

- (A) only (i) and (ii) are correct
- (B) only (i) and (iii) are correct
- (C) only (ii) and (iii) are correct
- (D) all (i), (ii) and (iii) are correct (Correct Answer)

Question No.13

Marks: 1.00

Bookmark

As per Indian Electricity rules 1956, the minimum permissible ground clearance for 220 kV transmission line is about ____

- (A) 5.2 m
- (B) 8.84 m
- (C) 6.1 m
- (D) 7.0 m (Correct Answer)

Question No.14

Marks: 1.00

Bookmark

The Unified Power Flow Controller (UPFC) is a combination of and coupled via a DC link.

- (A) STATCOM, SSSC (Correct Answer)
- (B) SVC, TCSC
- (C) STATCOM, SVC
- (D) TCSC, SSSC

Question No.15

Marks: 1.00

Bookmark

The adequateness of protection is judged by considering

- (A) Rating of the protected machine
- (B) Location of the protected machine
- (C) Probability of abnormal condition due to internal and external causes
- (D) All of the above (Correct Answer)

Question No.16

Marks: 1.00

Bookmark

The right of way (ROW) for a 1200 kV AC transmission line is about ____

- (A) 90 m (Correct Answer)
- (B) 64 m
- (C) 46 m
- (D) 27 m

Question No.17

Marks: 1.00

Bookmark

Energized parts of electrical equipment operating at 50 volts AC or more must be _____ to avoid accidental contact.

- (A) Insulated
- (B) Grounded
- (C) Guarded (Correct Answer)
- (D) Protected

Question No.18

Marks: 1.00

Bookmark

A 3-phase transformer of 220/11000 line volts is connected in star/delta with differential protection system. The protective transformers on 220 V side have a current ratio of

500/5. What should be the CT ratio on 11000 V side? Assume that the line current on 220 V side is 300 A.

- (A) $1 : \sqrt{3}$
- (B) $\sqrt{3} : 2$
- (C) $\sqrt{3} : 1$
- (D) $2 : \sqrt{3}$ (Correct Answer)

Question No.19

Marks: 1.00

Bookmark

Calculate the protection trip time of the inverse definite minimum time (IDMT) overcurrent relay, according to IEC 60255 protection curves. Assume standard inverse curve type, relay pickup current = 2 kA, fault current = 10 kA and time-multiplier setting (TMS) = 1.

- (A) 4.28 s (Correct Answer)
- (B) 12.84 s
- (C) 13.26 s
- (D) 8.84 s

Question No.20

Marks: 1.00

Bookmark

The main role of Gateway in smart grid architecture of IoT is to

- (A) secure
- (B) manage
- (C) store
- (D) collect (Correct Answer)

Question No.21

Marks: 1.00

Bookmark

If a battery has 0.2 C rate, then the discharge current will discharge the entire battery in

- (A) 5 hours (Correct Answer)
- (B) 10 hours
- (C) 0.5 hour
- (D) 1 hour

Question No.22

Marks: 1.00

Bookmark

In India, are neutral wires in the electric circuit that carries the unbalanced load or unused current back to the electric panel.

- (A) Black wires (Correct Answer)
- (B) Yellow wires
- (C) Red wires
- (D) Blue wires

Question No.23

Marks: 1.00

Bookmark

The specifications of an FS-380 Solar module is presented in the Table.

Nominal Power (W)	80
Voltage at P_{\max} (V)	50.7
Current at P_{\max} (A)	1.58
Open Circuit Voltage (V)	61.7
Short Circuit Current (A)	1.76

The area of the module is 0.72 m^2 .

What is the efficiency of the module under standard test conditions 1000 W/m^2 .

- (A) 15%
- (B) 73.67%
- (C) **11.11% (Correct Answer)**
- (D) 80%

Question No.24

Marks: 1.00

Bookmark

The bipolar HVDC link has

- (A) **Two conductors with potentials +V and -V with respect to the ground potential. (Correct Answer)**
- (B) One conductor usually with positive polarity and the return path is ground.
- (C) One conductor usually with negative polarity and the return path is ground.
- (D) Two conductors with potentials -V and -V with respect to the ground potential.

Question No.25

Marks: 1.00

Bookmark

Capacitance grading of cable implies:

- (A) **Use of dielectrics of different permeabilities (Correct Answer)**
- (B) Cables using single dielectric in different concentrations
- (C) Capacitance required to be introduced at different lengths to counter the effect of inductance
- (D) Grading according to capacitance of cables per km length

Question No.26

Marks: 1.00

Bookmark

The electrical field developed within clouds before a lightning stroke occurs can be of the order of

- (A) 0.1 kV/cm
- (B) **10 kV/cm (Correct Answer)**
- (C) 100 kV/cm
- (D) 1 kV/cm

Question No.27

Marks: 1.00

Bookmark

Consider the following statements and select the correct answer:

Statement 1: The optical voltage transformer (OVT) measures the electric voltage by means of Peltier effect.

Statement 2: The magneto-optical current transformer (MOCT) measures the electric current by means of Faraday effect.

- (A) **Statement 1 is FALSE and Statement 2 is TRUE (Correct Answer)**
- (B) Both Statement 1 and Statement 2 are TRUE
- (C) Statement 1 is TRUE and Statement 2 is FALSE
- (D) Both Statement 1 and Statement 2 are FALSE

Question No.28

Marks: 1.00

Bookmark

In boost converter, the critical capacitance value of the capacitor 'C' connected across the load is

- (A) **inversely proportional to the switching frequency (Correct Answer)**
- (B) directly proportional to the switching frequency
- (C) inversely proportional to the square of the switching frequency
- (D) directly proportional to the square of the switching frequency

Question No.29

Marks: 1.00

Bookmark

Two identical synchronous machines having the same inertia constant are connected in parallel and swinging together. The effective inertia constant is 6 MJ/MVA. Then each machine has an inertia constant of

- (A) **3 MJ/MVA (Correct Answer)**
- (B) 6 MJ/MVA
- (C) 12 MJ/MVA
- (D) 1 MJ/MVA

Question No.30

Marks: 1.00

Bookmark

Determine the discharge time and average current output of a battery with a capacity rating of 2300 mAh if it is discharged at 0.5 C.

- (A) **2 hours, 1150 mA (Correct Answer)**
- (B) 1 hour, 2300 mA
- (C) 2 hours, 2300 mA
- (D) 1 hour, 1150 mA

Question No.31

Marks: 1.00

Bookmark

The Y_{bus} matrix of a two-bus power system having two identical parallel lines connected between them in pu is given as

$$Y_{bus} = \begin{bmatrix} -j8 & j20 \\ j20 & -j8 \end{bmatrix}$$

The magnitude of the series reactance of each line in pu is

- (A) j0.2 pu
- (B) j0.3 pu
- (C) **j0.1 pu (Correct Answer)**
- (D) j0.4 pu

Question No.32

Marks: 1.00

Bookmark

What is the diameter of the GI pipe through which the earth wire needs to be taken out?

- (A) **13 mm (Correct Answer)**
- (B) 15 mm
- (C) 19 mm
- (D) 6 mm

Question No.33

Marks: 1.00

Bookmark

The advantage of extra high voltage column isolators is

- (A) It requires less ground area.
- (B) It is clearly visible from a great distance.
- (C) Keeping the fixed contacts alive the moving contacts can be inspected safely.
- (D) **All of the above (Correct Answer)**

Question No.34

Marks:

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Bookmark

If n_1 is the refractive index of the core, n_2 is the refractive index of the cladding, Φ_i is the incidence angle and Φ_c is the critical angle, then for total internal reflection

- (A) $n_1 < n_2$ and $\Phi_i > \Phi_c$
- (B) $n_1 > n_2$ and $\Phi_i < \Phi_c$
- (C) $n_1 < n_2$ and $\Phi_i < \Phi_c$
- (D) **$n_1 > n_2$ and $\Phi_i > \Phi_c$ (Correct Answer)**

Question No.35

Marks: 1.00

Bookmark

In series compensation, if the degree of compensation is 0.6, then the power transfer capability of transmission line with compensation will be _____ times the power transfer capability without compensation.

- (A) 0.5
- (B) 2.5 (Correct Answer)
- (C) 1.5
- (D) 3.5

Question No.36

Marks: 1.00

Bookmark

Which of the following factors are monitored and controlled by battery management system?

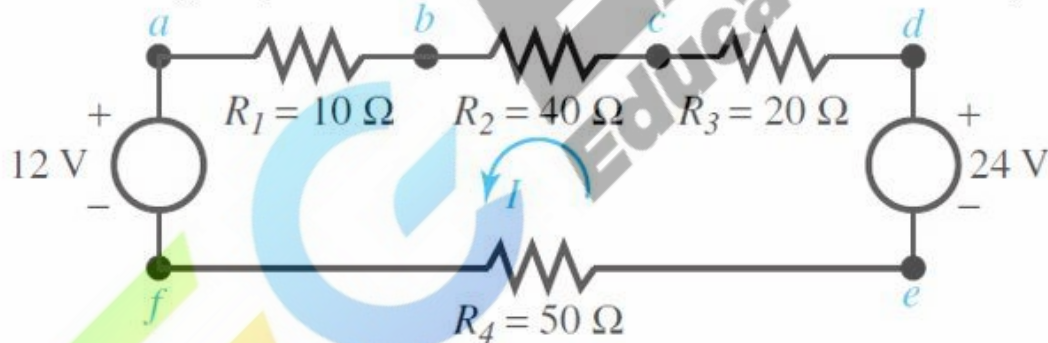
- (i) Voltage of individual cells
 - (ii) Charge and discharge rate
 - (iii) Temperature of individual cells
- (A) Only (i) and (ii) are correct
 - (B) Only (ii) and (iii) are correct
 - (C) Only (i) and (iii) are correct
 - (D) All (i), (ii) and (iii) are correct (Correct Answer)

Question No.37

Marks: 1.00

Bookmark

Find the voltage drop across the resistor $R_4 = 50 \Omega$ for the circuit shown in Fig



- (A) 7 V
- (B) 5 V (Correct Answer)
- (C) 3 V
- (D) 1 V

Question No.38

Marks: 1.00

Bookmark

The quadratic electro-optical effect is also called:

- (A) Faraday effect
- (B) Pockels effect
- (C) Kerr effect (Correct Answer)
- (D) Cotton-Mouton effect

Question No.39

Marks: 1.00

Bookmark

With 100% inductive shunt compensation, the voltage profile is flat for _____ loading of line.

- (A) **0% (Correct Answer)**
- (B) 100%
- (C) 75%
- (D) 50%

Question No.40

Marks: 1.00

Bookmark

When the secondary winding of a potential transformer is suddenly open circuited with primary winding excited

- (i) large voltages are produced in the secondary winding which may be a safety hazard to operating personnel
- (ii) the large voltages so produced may rupture the insulation
- (iii) the primary winding draws only the no load current

- (A) only (i) is correct
- (B) **only (iii) is correct (Correct Answer)**
- (C) both (i) and (ii) are correct
- (D) All (i), (ii) and (iii) are correct

Question No.41

Marks: 1.00

Bookmark

The relay used for phase fault protection of short transmission lines is

- (A) **reactance relay (Correct Answer)**
- (B) IDMT relay
- (C) mho relay
- (D) impedance relay

Question No.42

Marks: 1.00

Bookmark

The constant voltage charging method of lead-acid battery will provide

- (A) Constant voltage till the voltage reach its defined gassing voltage
- (B) **Constant voltage till the current taken by the battery go to zero (Correct Answer)**
- (C) Constant current till the current taken by the battery go to zero
- (D) Constant current till the voltage reach its defined gassing voltage

Question No.43

Marks: 1.00

Bookmark

In the PowerWorld simulator, is the tool used to simulate ancillary services reserve markets.

- (A) Security Constrained Optimal Power Flow
- (B) Voltage Adequacy and Stability
- (C) Availabilitiy Transfer Capability Analysis
- (D) **Optimal Power Flow Reserves (Correct Answer)**

Question No.44

Marks: 1.00

Bookmark

A 50 MVA, 11 kV generator has a per unit impedance of 0.5. The per unit impedance of this generator at a new base 100 MVA and 'X' kV is 0.25. Determine the value of 'X'.

- (A) 44 kV
- (B) 11 kV
- (C) **22 kV (Correct Answer)**
- (D) 33 kV

Question No.45

Marks: 1.00

Bookmark

A 3-phase transmission line is being supported by three disc insulators. The potentials across top unit (i.e., near to the tower) and middle unit are 8 kV and 12 kV respectively. Calculate the ratio of capacitance between pin and earth to the self-capacitance of each unit.

- (A) 0.33
- (B) **0.5 (Correct Answer)**
- (C) 1.5
- (D) 0.66

Question No.46

Marks: 1.00

Bookmark

Which instrument is present in the power line carrier communication system?

- (A) **Tuning unit (Correct Answer)**
- (B) Multiplexer
- (C) SCADA
- (D) None of these

Question No.47

Marks: 1.00

Bookmark

The purpose of DIN-rail used in control panel wiring is to

- (A) install the high powered circuit accessories
- (B) **mount the control accessories without screws (Correct Answer)**
- (C) mount the double deck terminal connectors
- (D) provide a path way for electrical wiring

Question No.48

Marks: 1.00

Bookmark

Consider the following statements and select the correct answer:

Statement 1: The Darrieus wind turbine is not a self-starting turbine

Statement 2: The starting torque of the Darrieus wind turbine is very low.

- (A) Both Statement 1 and Statement 2 are FALSE
- (B) **Both Statement 1 and Statement 2 are TRUE (Correct Answer)**
- (C) Statement 1 is TRUE and Statement 2 is FALSE
- (D) Statement 1 is FALSE and Statement 2 is TRUE

Question No.49

Marks: 1.00

Bookmark

According to the Indian electricity rules, 1956, for extra-high voltage lines, the horizontal clearance between the nearest conductor and any part of adjacent building shall, on the basis of maximum deflection due to wind pressure, be not less than _____

- (A) **2 m plus 0.3 m for every additional 33 KV (Correct Answer)**
- (B) 3 m plus 0.2 m for every additional 33 KV
- (C) 2 m plus 0.1 m for every additional 11 KV
- (D) 3 m plus 0.3 m for every additional 11 KV

Question No.50

Marks: 1.00

Bookmark

The Ferranti effect will be happen on the transmission line due to of the line.

- (A) Long, discharging current
- (B) **Long, charging current (Correct Answer)**
- (C) Short, charging current
- (D) Short, discharging current

Question No.51

Marks: 1.00

Bookmark

Consider the following statements concerned with interconnecting solar cells to make a solar module. Which of the statements is false?

- (A) The bypass diode is connected in parallel to a solar cell but with a polarity opposite to that of the solar cell.
- (B) The open-circuit voltage of a solar module with series connected solar cells is the sum of the opencircuit voltages of all the individual solar cells.
- (C) **The short-circuit current of a solar module with series connected solar cells is the sum of the short-circuit currents of all the individual solar cells. (Correct Answer)**
- (D) The use of bypass diodes in a solar module can help in reducing the undesired effects of a dysfunctional solar cell.

Question No.52

Marks: 1.00

Bookmark

IoT-A stands for _____

- (A) Internet of Things Address
- (B) **Internet of Things Architecture (Correct Answer)**
- (C) Internet of Things Area
- (D) Industrial of things Architecture

Question No.53

Marks: 1.00

Bookmark

The lead acid battery

- (A) delivers current as soon as its components are put together
- (B) **does not deliver current on putting its components together until it is supplied electrical energy from external source (Correct Answer)**
- (C) electrolyte density increases while delivering current
- (D) has lead as positive plates

Question No.54

Marks: 1.00

Bookmark

What is the purpose of back up protection?

- (A) To increase the speed
- (B) To increase the reach
- (C) **To act in case of failure of primary protection (Correct Answer)**
- (D) To leave no blind spot

Question No.55

Marks: 1.00

Bookmark

Consider the following statements and select the correct answer:

Statement 1: For equilateral spacing of conductors of untransposed three phase line, we have unbalanced receiving end voltage and no communication interference

Statement 2: Transmission lines are transposed to prevent short circuit between any two line.

- (A) Statement 1 is TRUE and Statement 2 is FALSE
- (B) Statement 1 is FALSE and Statement 2 is TRUE
- (C) Both Statement 1 and Statement 2 are TRUE
- (D) **Both Statement 1 and Statement 2 are FALSE (Correct Answer)**

Question No.56

Marks: 1.00

Bookmark

The meter constant of an energy meter is 2000 revolutions/kWhr, the disc makes 4000 revolutions in the given time. The total energy consumed is

- (A) 1 kWhr
- (B) 3 kWhr
- (C) 4kWhr
- (D) **2 kWhr (Correct Answer)**

Question No.57

Marks: 1.00

Bookmark

A single phase transformer has 400 turns in the primary winding and 1500 turns in the secondary winding. If the primary winding is connected to a 50 Hz supply at 500 V, calculate the voltage induced in the secondary.

- (A) 133 V
- (B) 1500 V
- (C) **1875 V (Correct Answer)**
- (D) 960 V

Question No.58

Marks: 1.00

Bookmark

The coefficient of refraction for a vacuum is

- (A) 0.5
- (B) 0
- (C) 0.8
- (D) **1 (Correct Answer)**

Question No.59

Marks: 1.00

Match the following :

Generation	Types of SCADA systems
(i) First generation	(A) Distributed SCADA
(ii) Second generation	(B) Monolithic SCADA
(iii) Third generation	(C) IoT SCADA
(iv) Fourth generation	(D) Networked SCADA

- (A) (i) - (C), (ii) - (A), (iii) - (D), (iv) - (B)
 (B) (i) - (B), (ii) - (A), (iii) - (D), (iv) - (C) (Correct Answer)
 (C) (i) - (B), (ii) - (C), (iii) - (D), (iv) - (A)
 (D) (i) - (D), (ii) - (C), (iii) - (B), (iv) - (A)

Question No.60

Marks: 1.00

Bookmark

..... is an overcurrent relay with directional restraint used for earth fault protection.

- (A) **Reactance relay (Correct Answer)**
 (B) Impedance relay
 (C) Mho relay
 (D) None of the above

Computer Knowledge - Computer Knowledge

Question No.1

Marks: 1.00

Bookmark

A program loaded into the memory and executing is called _____.

- (A) Multithread
 (B) **Process (Correct Answer)**
 (C) Thread
 (D) Compilation

Question No.2

Marks: 1.00

Bookmark

In Microsoft Word 2007, which shortcut Key is used to Access Thesaurus?

- (A) CTRL+ALT+F8
 (B) **SHIFT+F7 (Correct Answer)**
 (C) CTRL+F6
 (D) CTRL+SHIFT+E

Question No.3

Marks: 1.00

Bookmark

A _____ is a group of bytes packaged by a network adapter for transmission across the network

- (A) Hub

- (B) **Frame (Correct Answer)**
- (C) Form
- (D) Envelope

Question No.4

Marks: 1.00

Bookmark

In which among the following memory allocation methods the memory is divided into different blocks?

- (A) Single contiguous allocation
- (B) Segmented memory management
- (C) **Partitioned allocation (Correct Answer)**
- (D) Paged memory management

Question No.5

Marks: 1.00

Bookmark

_____ technology was developed by Bell Laboratories in 1947, which led to the evolution of second generation computers.

- (A) VLSI
- (B) **Transistor (Correct Answer)**
- (C) ULSI
- (D) Vacuum tube

Question No.6

Marks: 1.00

Bookmark

Which among the following options in Mail merge helps you to prepare letters in batch for mass mailing?

- (A) Scan letters
- (B) Catalogue letters
- (C) **Form letters (Correct Answer)**
- (D) Print letters

Question No.7

Marks: 1.00

Bookmark

ALICE is one of the famous natural language chat bot created using AIML, ALICE stands for _____ .

- (A) Advanced Language Internet Computer Entity
- (B) **Artificial Linguistic Internet Computer Entity (Correct Answer)**
- (C) Advanced Library Internet Computer Entity
- (D) Artificial Learning Internet Computer Entity

Question No.8

Marks: 1.00

Bookmark

_____ locates the operating system's kernel and loads it into RAM memory at the time of Startup.

- (A) Disk Controller
- (B) Driver
- (C) Firewall

(D) Firmware (Correct Answer)

Question No.9

Marks: 1.00

Bookmark

The translate option which is used to translate the selected text into a different language is available under _____ tab in Excel.

- (A) Data
(B) Review (Correct Answer)
(C) Layout
(D) Formula

Question No.10

Marks: 1.00

Bookmark

In the _____ all hosts act as both servers and clients and they play both roles.

- (A) Client-Server Model
(B) Clustered Cloud model
(C) Peer-to-Peer Model (Correct Answer)
(D) Hybrid cloud model

Gujarati Language and Grammar - Gujarati Language and Grammar

Question No.1

Marks: 1.00

Bookmark

ગોવિંદે માંડી ગોઠડી' સાહિત્યકૃતિના લેખકનું નામ આપો.

- (A) ગુણવંત શાહ
(B) ન્હાનાલાલ
(C) કનૈયાલાલ મુનશી
(D) બકુલ ત્રિપાઠી (Correct Answer)

Question No.2

Marks: 1.00

Bookmark

નીચેના વાક્યોના પ્રકાર ઓળખો.

1. વૈદ્ય દર્દીની નાડી તપાસે છે.
2. દર્દી વડે દવા લેવાય છે.

- (A) વાક્ય 1 કર્તરિ અને વાક્ય 2 કર્મણિ છે (Correct Answer)
(B) વાક્ય 1 અને વાક્ય 2 બંને કર્મણિ છે
(C) વાક્ય 1 કર્મણિ અને વાક્ય 2 કર્તરિ છે
(D) વાક્ય 1 અને વાક્ય 2 બંને કર્તરિ છે

Question No.3

Marks: 1.00

Bookmark

નીચેના વાક્યમાં ક્યાં ભૂલ છે તે શોધો.
સજ્જન માણસોનો સંગ હિતકારી બને.

- (A) હિતકારી
(B) સંગ
(C) બને

(D) સજ્જન માણસોનો (Correct Answer)

Question No.4

Marks: 1.00

Bookmark

"આદિ" નો વિરુદ્ધાર્થી શબ્દ જણાવો.

- (A) નવતર
(B) આજનું
(C) અંત (Correct Answer)
(D) પ્રારંભ

Question No.5

Marks: 1.00

Bookmark

જોડણી અથવા અનુસ્વારની રીતે વાક્યની શુદ્ધતા ચકાસો.

1. મારા મોટા બહેન શિક્ષક છે.

2. અમારી પરિક્ષા જૂનમાં લેવાશે.

- (A) વાક્ય 1 અને વાક્ય 2 બંને ખોટાં છે (Correct Answer)
(B) વાક્ય 1 અને વાક્ય 2 બંને સાચાં છે
(C) વાક્ય 1 સાચું છે અને વાક્ય 2 ખોટું છે
(D) વાક્ય 1 ખોટું છે અને વાક્ય 2 સાચું છે

Question No.6

Marks: 1.00

Bookmark

નીચેના વાક્યો ઓળખાવો.

1. તુ સાંજ સુધીમાં આ પતાવી દેજે.

2. આહા! કાર્યક્રમ ખરેખર અદભૂત હતો, નહિ!

- (A) વાક્ય 1 પ્રેરક અને વાક્ય 2 આશ્ચર્ય વાક્ય છે
(B) વાક્ય 1 પ્રેરક અને વાક્ય 2 નિષેધ વાક્ય છે
(C) વાક્ય 1 આજ્ઞાર્થ અને વાક્ય 2 નિષેધ વાક્ય છે
(D) વાક્ય 1 આજ્ઞાર્થ અને વાક્ય 2 આશ્ચર્ય વાક્ય છે (Correct Answer)

Question No.7

Marks: 1.00

Bookmark

આપેલા વિકલ્પોમાંથી રવાનુકારી શબ્દો શોધો.

- (A) કાગળબાગળ
(B) તોડફોડ
(C) ઘમ્મર ઘમ્મર (Correct Answer)
(D) આજુબાજુ

Question No.8

Marks: 1.00

Bookmark

"લોહી" શબ્દ પરનો કયો એક રૂઢિપ્રયાગ નથી?

- (A) લોહી ઊકળવું
(B) લોહીનું પાણી થવું
(C)

(C) લોહી લાલ થવું (Correct Answer)

(D) લોહી ચાખવું

Question No.9

Marks: 1.00

Bookmark

"ક્રમળ" માટે કયા બે સમાનાર્થી શબ્દો સાચા છે?

(A) ઇન્દુ, હિમાંશુ

(B) સલિલ, ઉદક

(C) અંશુ, મરીચિ

(D) પદ્મ, પંકજ (Correct Answer)

Question No.10

Marks: 1.00

Bookmark

આપેલા વાક્યોમાંથી ભાવે વાક્ય કયું છે?

(A) રમાથી લાકડું સળગાવાયું.

(B) મારાથી બિલકુલ ન બોલાયું (Correct Answer)

(C) શિક્ષકથી વિદ્યાર્થીઓને શિક્ષા કરાઈ

(D) અમારા બધાથી ગૃહકાર્ય કરવાનું ભૂલી જવાયું.

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