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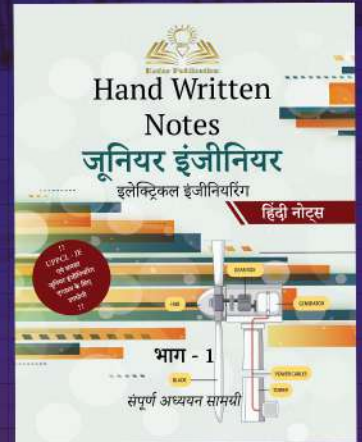
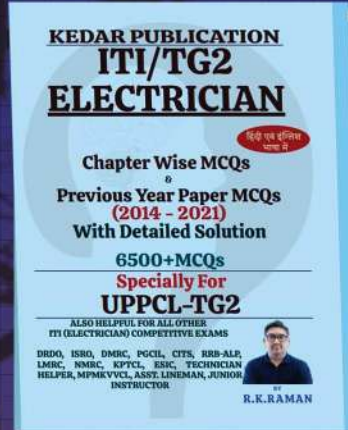
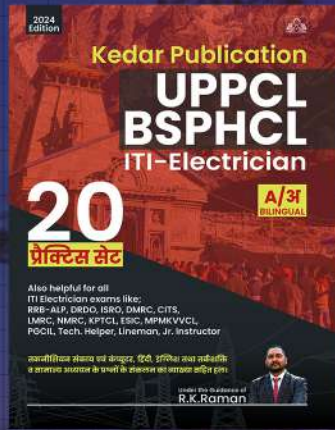
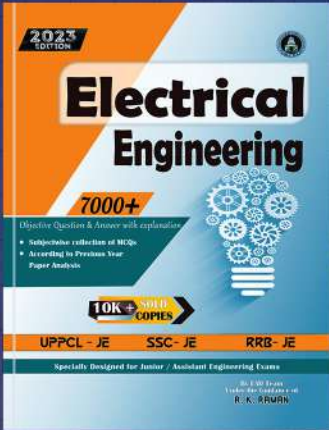
Objective Book for

Electrical-JE

UPPCL BSPHCL

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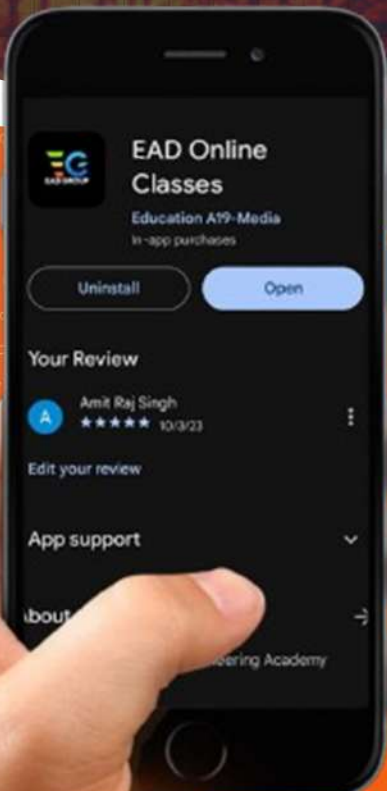
Exam Targeted:-

UPPCL-JE, SSC-JE RRB-JE

PGCIL-DT,DFCCIL-JE, ITI Etc.



Raman sir
Electrical Engg. Expert



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Exam Date: 07-Jan-2022

Exam Time: 09:00-11:00

Post Name: Vidyut Sahayak Junior Engineer -
Electrical

General Knowledge - General Knowledge

Question No.1

Marks: 1.00

Bookmark

Which committee is recommended for the establishment of the National Stock Exchange?

- (A) **Pherwani Committee (Correct Answer)**
- (B) YV Reddy Committee
- (C) ML Jhingan Committee
- (D) Aravind Mayaram Committee

Question No.2

Marks: 1.00

Bookmark

In which language was the newspaper 'Kesari' published by Bal Gangadhar Tilak?

- (A) Punjabi
- (B) **Marathi (Correct Answer)**
- (C) Telugu
- (D) Bengali

Question No.3

Marks: 1.00

Bookmark

Which among the following is a subject included in the 11th Schedule of Indian Constitution?

- (A) Major Ports
- (B) Defence of India
- (C) Foreign Loans
- (D) **Minor Forest Produce (Correct Answer)**

Question No.4

Marks: 1.00

Bookmark

Mahananda River is an important tributary of:

- (A) Brahmaputra River
- (B) **Ganga River (Correct Answer)**
- (C) Yamuna River
- (D) Mahanadi River

Question No.5

Marks: 1.00

Bookmark

In which year the term 'Secular' was added to the Indian Constitution?

- (A) 1951
- (B) **1976 (Correct Answer)**
- (C) 1961

(D) 1986

Question No.6

Marks: 1.00

Bookmark

Who started the Depressed Classes Association in 1930?

- (A) **BR Ambedkar (Correct Answer)**
(B) Mahatma Gandhi
(C) MR Jayakar
(D) Jyotiba Phule

Question No.7

Marks: 1.00

Bookmark

What is the centre of the reflecting surface of a spherical mirror known as?

- (A) Centre of curvature
(B) Principal axis
(C) Radius of curvature
(D) **Pole (Correct Answer)**

Question No.8

Marks: 1.00

Bookmark

Which of the following nations does not belong to G7 member countries?

- (A) Germany
(B) **India (Correct Answer)**
(C) US
(D) Japan

Question No.9

Marks: 1.00

Bookmark

Which among the following organisations has commenced the Crude Oil production from Bengal Basin?

- (A) **ONGC (Correct Answer)**
(B) IOC
(C) GAIL
(D) HPCL

Question No.10

Marks: 1.00

Bookmark

What is the expansion of LEO in Space science?

- (A) **Low Earth Orbit (Correct Answer)**
(B) Lateral Earth Orbit
(C) Linear Earth Orbit
(D) Long Earth Orbit

English Knowledge - English Knowledge

Question No.1

Marks: 1.00

Bookmark

Fill in the blanks with suitable Preposition from the given alternatives.

'Crazy' Mohan, prominent theatre artiste and ace scriptwriter in the Tamil film industry, died _____ Chennai on Monday.

- (A) on
(B) **in (Correct Answer)**

- (C) since
(D) against

Question No.2

Marks: 1.00

Bookmark

Fill in the blanks with suitable Article from the given alternatives.
A black hole is born when _____ large star collapses in on itself.

- (A) No Article
(B) **a (Correct Answer)**
(C) the
(D) an

Question No.3

Marks: 1.00

Bookmark

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

An event causing sudden damage or suffering

- (A) Chronology
(B) **Catastrophe (Correct Answer)**
(C) Nostalgia
(D) Ephemeral

Question No.4

Marks: 1.00

Bookmark

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

- (A) Inexperience
(B) Approve
(C) **Steal (Correct Answer)**
(D) Dull

Question No.5

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'.

The police appear for have assume that every black is a drug peddler and should be treated as such.

- (A) **appear to have assumed that (Correct Answer)**
(B) appear to has assumed that
(C) appear for have assumed that
(D) The given sentence is correct

Question No.6

Marks: 1.00

Bookmark

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

- (A) Scatter
(B) **Permit (Correct Answer)**
(C) Distribute
(D) Deploy

Question No.7

Marks: 1.00

Bookmark

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

Get over it.

- (A) To be good enough
- (B) **Accept something and move on (Correct Answer)**
- (C) Be completely conscious of the real status of situation
- (D) To be ill or feel ill

Question No.8

Marks: 1.00

Bookmark

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

- (A) Apathy
- (B) Peace
- (C) Check
- (D) **Brave (Correct Answer)**

Question No.9

Marks: 1.00

Bookmark

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

- (A) **Virtuoso (Correct Answer)**
- (B) Medeate
- (C) Transiant
- (D) Impanding

Question No.10

Marks: 1.00

Bookmark

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

A person who travels on foot

- (A) Escapist
- (B) Teetotaller
- (C) **Pedestrian (Correct Answer)**
- (D) Belligerent

Electrical Engineering - Electrical Engineering**Question No.1**

Marks: 1.00

Bookmark

An electric grid with the information and communications technology is called a

- (A) **Smart grid (Correct Answer)**
- (B) Communication grid
- (C) Micro grid
- (D) Power grid

Question No.2

Marks: 1.00

Bookmark

For the given base voltage and base MVA, the per unit impedance value of a generator is 0.5. What will be the per unit impedance of this generator when the voltage and MVA bases are doubled?

- (A) 4

- (B) 0.01
(C) **0.25 (Correct Answer)**
(D) 1

Question No.3

Marks: 1.00

Bookmark

A loss less transmission line having surge impedance loading of 1250 MW is provided with a uniformly distributed series capacitive compensation of 30%. Then, surge impedance loading of the compensated transmission line will be:

- (A) 2282 MW
(B) 1046 MW
(C) **1494 MW (Correct Answer)**
(D) 685 MW

Question No.4

Marks: 1.00

Bookmark

The major characteristics of single mode step index fibers includes:

- (A) **superior transmission quality, compatible, wide bandwidth (Correct Answer)**
(B) poor transmission quality, non-compatible, wide bandwidth
(C) poor transmission quality, compatible, less bandwidth
(D) low losses, non-compatible, less bandwidth

Question No.5

Marks: 1.00

Bookmark

If the loading of transmission line is equal to surge impedance loading, then the power factor will be and the line can be called

- (A) **unity, flat line (Correct Answer)**
(B) Zero, flat line
(C) lagging, sag line
(D) Zero, sag line

Question No.6

Marks: 1.00

Bookmark

Series capacitors are used in a transmission line to the phase angle between sending end and receiving ends under conditions.

- (A) increase, no-load
(B) increase, heavy load
(C) **reduce, heavy load (Correct Answer)**
(D) reduce, no-load

Question No.7

Marks: 1.00

Bookmark

The deep cycle battery has depth of discharge (DOD) capability of

- (A) less than 25%
(B) **more than 50% (Correct Answer)**
(C) less than 50%
(D) more than 95%

Question No.8

Marks: 1.00

Bookmark

A large crystalline silicon module consists of 72 cells. The open-circuit voltage of the

module is 21.6 V. How are the cells connected in the module if the standard c-Si cell has an open circuit voltage of 0.6 V and short-circuit current of 3 A ?

- (A) **Two strings in parallel, each string consisting of 36 cells connected in series. (Correct Answer)**
- (B) Two strings in series, each string consisting of 36 cells connected in parallel.
- (C) All 72 cells are connected in parallel.
- (D) All 72 cells are connected in series.

Question No.9

Marks: 1.00

Bookmark

The main purpose of control transformer used in control panel wiring is to

- (A) **supply the power to the auxiliary circuits (Correct Answer)**
- (B) control the supply voltage to the contactor
- (C) protect the control elements from overvoltage fault
- (D) maintain constant terminal voltage

Question No.10

Marks: 1.00

Bookmark

What are the main applications of the swing curves?

- (A) **Designing the protective devices (Correct Answer)**
- (B) Designing the rotor field windings
- (C) Used to limit the size of the machine
- (D) All of of the above

Question No.11

Marks: 1.00

Bookmark

If light with wavelength λ in glass with index of refraction n_g passes into water with index of refraction n_w , the new wavelength of the light is

- (A) $\lambda \left(\frac{n_g}{n_w} \right)$ (Correct Answer)

(B) $\frac{\lambda}{n_g}$

(C) $\lambda \left(\frac{n_w}{n_g} \right)$

(D) $\frac{\lambda}{n_w}$

Question No.12

Marks: 1.00

Bookmark

Which of the following causes the power frequency overvoltage in a system?

- (i) Sudden loss of loads
 - (ii) Disconnection of inductive loads
 - (iii) Ferranti effects and unsymmetrical faults
- (A) Only (ii) and (iii)
- (B) Only (i) and (ii)
- (C) Only (i) and (iii)
- (D) **All (i), (ii) and (iii) (Correct Answer)**

Question No.13

Marks: 1.00

Bookmark

A shunt reactor of 300 MVAR is operated at 95% of its rated voltage and 95% of its rated frequency. The reactive power absorbed by the reactor is

- (A) 270 MVAR
- (B) **285 MVAR (Correct Answer)**
- (C) 315 MVAR
- (D) 300 MVAR

Question No.14

Marks: 1.00

Bookmark

The solar radiation falls at the Earth's surface includes:

- (i) Direct radiation that has passed through the atmosphere
- (ii) Diffuse radiation from the sky
- (iii) Absorbed radiation from the water

Select the correct answer using the code given below:

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

Question No.15

Marks: 1.00

Bookmark

A boost converter has input voltage of 5 V and it operates at 20 kHz. When the average output voltage $V_o = 10$ V, the average load current $I_o = 0.8$ A. Determine the critical value of the capacitance C.

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

Question No.16

Marks: 1.00

Bookmark

The capacity of a lead-acid battery does not depend on its

- (A) Temperature
- (B) Quantity of active material
- (C) **Rate of charge (Correct Answer)**
- (D) Rate of discharge

Question No.17

Marks: 1.00

Bookmark

Which of the following is the only protective device whose sole purpose is to protect people?

- (A) Circuit breaker
- (B) Fuse
- (C) **Ground fault circuit interrupter (Correct Answer)**
- (D) Transformer

Question No.18

Marks: 1.00

Bookmark

How many cells, each having an emf of 1.5 V and internal resistance of 0.25 Ω would be required (connected in series) to pass a current of 1.5 A through a resistance of 18 Ω ?

- (A) **24 (Correct Answer)**
- (B) 30
- (C) 16
- (D) 8

Question No.19

Marks: 1.00

Bookmark

According to IEC standard, the symbol shown in Fig. represents



- (A) Circuit breaker
- (B) Load-break switch
- (C) **Isolator (Correct Answer)**
- (D) Contactor

Question No.20

Marks: 1.00

Bookmark

Which one of the following is not a vertical-axis wind turbine?

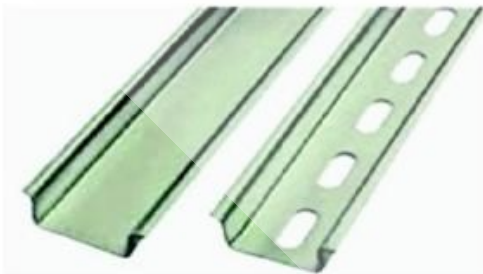
- (A) Savonius windmills
- (B) None of the above
- (C) Darrieus windmills
- (D) **Dutch windmills (Correct Answer)**

Question No.21

Marks: 1.00

Bookmark

What is the name of the control panel wiring accessory shown in Figure?



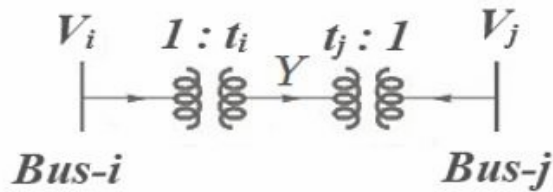
- (A) G channel
- (B) **DIN rails (Correct Answer)**
- (C) Race ways
- (D) Grommets

Question No.22

Marks: 1.00

Bookmark

Two buses, i and j, are connected with a transmission line of admittance Y, at the two ends of which there are ideal transformers with turns ratios as shown. Bus admittance matrix for the system is:



(A)
$$\begin{bmatrix} t_i^2 Y & -t_i t_j Y \\ -t_i t_j Y & t_j^2 Y \end{bmatrix}$$
 (Correct Answer)

(B)
$$\begin{bmatrix} t_i t_j Y & -t_j^2 Y \\ -t_i^2 Y & t_i t_j Y \end{bmatrix}$$

(C)
$$\begin{bmatrix} t_i t_j Y & -(t_i - t_j)^2 Y \\ -(t_i - t_j)^2 Y & t_i t_j Y \end{bmatrix}$$

(D)
$$\begin{bmatrix} -t_i t_j Y & t_j^2 Y \\ t_i^2 Y & -t_i t_j Y \end{bmatrix}$$

Question No.23

Marks: 1.00

Bookmark

A 1500/5, C400 CT is connected on the 1000/5 tap. What is the maximum secondary burden that can be used and still maintain rated accuracy at 20 times rated symmetrical secondary current?

- (A) 2.67 Ω (Correct Answer)
 (B) 3.57 Ω
 (C) 4.87 Ω
 (D) 1.27 Ω

Question No.24

Marks: 1.00

Bookmark

As per the Indian Electricity Rules, 1956, where a 33 kV high voltage over head line passes above or adjacent to any building or part of a building, it shall have on the basis of maximum sag, a vertical clearance above the highest part of the building immediately under such line, of not less than:

- (A) 12 ft (Correct Answer)
 (B) 4 ft
 (C) 2 ft
 (D) 8 ft

Question No.25

Marks: 1.00

Bookmark

A 230 V single phase watt-hour meter records a constant load of 10 A for 5 hours at unity power factor. If the energy meter disc makes 4600 revolutions during this period, what is the energy meter constant in terms of revolutions per unit?

- (A) 200 revolutions/kWhr
- (B) 600 revolutions/kWhr
- (C) 800 revolutions/kWhr
- (D) **400 revolutions/kWhr (Correct Answer)**

Question No.26

Marks: 1.00

Bookmark

Consider the following statements about Bipolar DC link and select the correct answer:

Statement 1: Bipolar DC link has two conductors with the same polarity which is generally negative.

Statement 2: In case of fault on one conductor, the Bipolar DC link system is converted into monopolar DC link system.

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

Question No.27

Marks: 1.00

Bookmark

Consider the following statements and select the correct answer:

Statement 1: An electric transmission line right of way (ROW) is a strip of land used by electrical utilities to construct, operate, maintain and repair the transmission line facilities.

Statement 2: The transmission line is kept in the centre of ROW.

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

Question No.28

Marks: 1.00

Bookmark

A fault current limiter is basically a that is installed in with a circuit breaker.

- (A) constant impedance, series
- (B) constant impedance, parallel
- (C) **variable impedance, series (Correct Answer)**
- (D) variable impedance, parallel

Question No.29

Marks: 1.00

Bookmark

Consider the following statements and choose the correct answer:

Statement 1: The isolator cannot be opened unless the associated circuit breaker (CB) is closed

Statement 2: The CB shall open only after all the isolators associated have been closed.

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

Question No.30

Marks: 1.00

Bookmark

Consider the following statements and select the correct answer:

Statement 1: Data acquisition is the process of actuating equipment operation at remote locations.

Statement 2: In substation automation system, SCADA performs bus voltage control and circulating current control.

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

Question No.31

Marks: 1.00

Bookmark

Two condensers of capacities $2C$ and C are joined in parallel and charged upto potential V . The battery is removed and the condenser of capacity C is filled completely with a medium of dielectric constant K . The potential difference across the capacitors will be

- (A) $\frac{V}{3K}$
(B) $\frac{V}{K+1}$
(C) $\frac{3V}{K}$
(D) $\frac{3V}{K+2}$ (Correct Answer)

Question No.32

Marks: 1.00

Bookmark

A 3-phase 33/6.6 kV star/delta connected transformer is protected by differential system. The current transformer (CT) on low-tension side have a ratio of 300/5. Assume 300 A is flowing in the lines on low-tension side. Calculate the CT ratio on high-tension side.

- (A) $60 : 5\sqrt{3}$ (Correct Answer)
(B) $60 : 5$
(C) $5 : 60\sqrt{3}$
(D) $5 : 60$

Question No.33

Marks: 1.00

Bookmark

Match the following:

Equipment	Cause of fault
(A) Overhead lines	(i) Damage during digging
(B) Underground cables	(ii) Faults in tap chager
(C) Transformers	(iii) Lightning strokes

- (A) (A) – (i) ; (B) – (iii) ; (C) – (ii)
(B) (A) – (iii) ; (B) – (i) ; (C) – (ii) (Correct Answer)
(C) (A) – (ii) ; (B) – (iii) ; (C) – (i)
(D) (A) – (iii) ; (B) – (ii) ; (C) – (i)

Question No.34

Marks: 1.00

Bookmark

Which among the following is not a method for measurement of high resistance?

- (A) **Ammeter-Voltmeter method (Correct Answer)**
(B) Megohm bridge Method
(C) Direct deflection method
(D) Loss of charge method

Question No.35

Marks: 1.00

Bookmark

For protection of parallel feeders fed from one end, the relays required at source end and load end, respectively, are

- (A) Directional, Non directional
(B) Non directional, Non directional
(C) Directional, Directional
(D) **Non directional, Directional (Correct Answer)**

Question No.36

Marks: 1.00

Bookmark

In the power system software, the term 'OpenDSS' stands for

- (A) **Open Discrete Software Simulation**
(B) Open Digital System Software
(C) **Open Distribution System Simulator (Correct Answer)**
(D) Open Distribution System Software

Question No.37

Marks: 1.00

Bookmark

A 24 V battery of internal resistance $r = 4$ ohm is connected to a variable resistance R. The rate of heat dissipated in the resistor is maximum when the current drawn from the battery is 1 A. The current drawn from the battery will be (1/2) A when R is equal to

- (A) 8 ohm
(B) **12 ohm (Correct Answer)**
(C) 20 ohm
(D) 16 ohm

Question No.38

Marks: 1.00

Bookmark

The change in refractive index of a material subjected to a steady magnetic field is called

- (A) electro optic effect
- (B) coulomb blockade effect
- (C) photo emissive effect
- (D) **magneto optic effect (Correct Answer)**

Question No.39

Marks: 1.00

Bookmark

The best indication about the state of charge on a lead acid battery is given by

- (A) **specific gravity of electrolyte (Correct Answer)**
- (B) output voltage
- (C) temperature of electrolyte
- (D) None of the above

Question No.40

Marks: 1.00

Bookmark

The earthing is essential because of the following reasons

- (i) The earthing protects the personnel from the shortcircuit current.
- (ii) The earthing provides the easiest path to the flow of shortcircuit current even after the failure of the insulation.
- (iii) The earthing protects the apparatus and personnel from the high voltage surges and lightning discharge.

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

Question No.41

Marks: 1.00

Bookmark

Which type of foundation is preferred for lattice towers?

- (A) Anchor foundation
- (B) Pole foundation
- (C) **All of these (Correct Answer)**
- (D) Rock foundation

Question No.42

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 = 1kA, fault current = 10 kA and time-multiplier setting (TMS) = 1.

- (A) **2.97 s (Correct Answer)**
- (B) 6.22 s
- (C) 5.94 s
- (D) 3.11 s

Question No.43

Marks: 1.00

Bookmark

If two of the lithium-ion battery cell each has 3.7 V, 2.96 Wh are connected in parallel to create a battery, what is the nominal energy capacity of the battery?

- (A) **5.92 Wh (Correct Answer)**

- (B) 4.44 Wh
- (C) 2.96 Wh
- (D) 1.48 Wh

Question No.44

Marks: 1.00

Bookmark

In order to maximize the energy output of the standalone photovoltaic systems, it is important to select an inverter with

- (A) Low efficiency, high harmonic distortion and high standby losses
- (B) High harmonic distortion, high standby losses and low surge capacity
- (C) High harmonic distortion, low standby losses and low surge capacity
- (D) **High efficiency, low harmonic distortion and low standby losses (Correct Answer)**

Question No.45

Marks: 1.00

Bookmark

Which of the following devices is a carrier communication device?

- (A) Lightning arrester
- (B) capacitor voltage transformer
- (C) **Wave trap (Correct Answer)**
- (D) Earth conductor

Question No.46

Marks: 1.00

Bookmark

A three-bladed wind rotor with blade length of 56 m is operating in a wind stream having wind velocity of 10 m/s. Air density is 1.23 kg/m^3 and power coefficient may be taken as 0.5. Calculate the extractable power from the wind.

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

Question No.47

Marks: 1.00

Bookmark

Voltage transformers are designed to have

- (A) high leakage reactance, high loss and low magnetizing reactance
- (B) **low leakage reactance, low loss and high magnetizing reactance (Correct Answer)**
- (C) high leakage reactance, low loss and low magnetizing current
- (D) low leakage reactance, low loss and high magnetizing current

Question No.48

Marks: 1.00

Bookmark

A short-circuiting link is provided on the secondary side of the current transformer (CT) because

- (i) when the secondary winding of the CT is short circuited by the link with the primary winding energized, it is possible to make any adjustments in the secondary winding circuit like replacing a faulty ammeter.
- (ii) when the short-circuiting link is opened with the secondary winding open-circuited, the current on the primary side is fall to almost zero.

- (A) only (ii) is TRUE
- (B) **only (i) is TRUE (Correct Answer)**
-

- (C) both (i) and (ii) are FALSE
(D) both (i) and (ii) are TRUE

Question No.49

Marks: 1.00

Bookmark

The functions of SCADA in power distribution system are given below.

- (i) Improving power system efficiency by maintaining an acceptable range of power factor
(ii) Limiting peak power demand
(iii) Continuous monitoring and controlling of various electrical parameters in both normal and abnormal conditions Select the correct option.
- (A) Only (i) and (iii) are correct
(B) All (i), (ii) and (iii) are correct (Correct Answer)
(C) Only (i) and (ii) are correct
(D) Only (ii) and (iii) are correct

Question No.50

Marks: 1.00

Bookmark

The maximum potential gradient on a single core cable is given by

$$\frac{V}{x \ln \left(\frac{R}{r} \right)}$$

where 'r' is the radius of the conductor, 'R' is the inner radius of the sheath and 'V' is the transmission system voltage. Here, 'x' is equal to

- (A) x = R
(B) x = 2r
(C) x = r (Correct Answer)
(D) x = 2R

Question No.51

Marks: 1.00

Bookmark

Biomass can be used as fuel through

- (A) All of the above (Correct Answer)
(B) Digestion
(C) Fermentation
(D) Combustion

Question No.52

Marks: 1.00

Bookmark

In a 33 kV overhead line, there are three units in the string of insulators. If the capacitance between each insulator pin and earth is 11% of self-capacitance of each insulator, find string efficiency.

- (A) 65.80%
(B) 85.80% (Correct Answer)
(C) 55.80%
(D) 75.80%

Question No.53

Marks: 1.00

Bookmark

The core of a three phase, 50 Hz, 11000 / 500 V delta/star, 500 kVA, core-type transformer operates with a flux of 0.05 Wb. Find the number of HV and LV turns per phase.

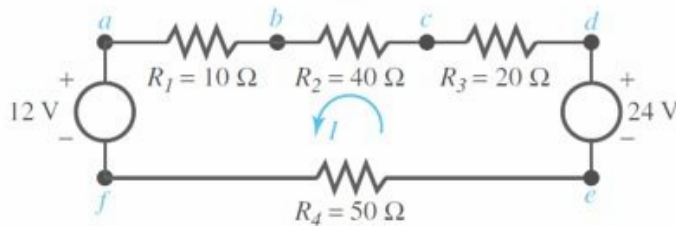
- (A) 991 turns and 45 turns
 (B) 572 turns and 26 turns
 (C) 572 turns and 45 turns
 (D) **991 turns and 26 turns (Correct Answer)**

Question No.54

Marks: 1.00

Bookmark

Find the current flow through the circuit shown in Fig.



- (A) 50 mA
 (B) **100 mA (Correct Answer)**
 (C) 200 mA
 (D) 250 mA

Question No.55

Marks: 1.00

Bookmark

Which of the following statements is correct about the firewall?

- (A) **It is a device installed at the boundary of an incorporate to protect it against the unauthorized access. (Correct Answer)**
 (B) It is a kind of wall built to prevent files form damaging the corporate.
 (C) None of the above.
 (D) It is a device installed at the boundary of a company to prevent unauthorized physical access.

Question No.56

Marks: 1.00

Bookmark

Gas insulated substation (GIS) offers most economic solutions for
 (i) An urban and industrial area where space is constraint and pollution is a problem.
 (ii) Mountainous areas where site preparation, altitude, snow and ice are major problems.

- (A) **Both (i) and (ii) are TRUE (Correct Answer)**
 (B) Only (i) is TRUE
 (C) Both (i) and (ii) are FALSE
 (D) Only (ii) is TRUE

Question No.57

Marks: 1.00

Bookmark

Which statement is true for Static Synchronous Series Compensator?

- (A) It always operated with open -loop control for varying real and reactive power for compensation
 (B) It always operated with closed-loop control for varying only real power

- (C) It always operated with open -loop control for varying only reactive power
- (D) **It always operated with closed-loop control for varying real and reactive power for compensation (Correct Answer)**

Question No.58

Marks: 1.00

Bookmark

Which one of the following is voltage restrained overcurrent relay?

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

Question No.59

Marks: 1.00

Bookmark

FACTS devices are used to compensate.....of the transmission line.

- (A) Admittance
- (B) **Reactance (Correct Answer)**
- (C) Conductance
- (D) Resistance

Question No.60

Marks: 1.00

Bookmark

Which type of tower is NOT called Tension tower/section tower?

- (A) Type D
- (B) Type C
- (C) Type B
- (D) **Type A (Correct Answer)**

Computer Knowledge - Computer Knowledge

Question No.1

Marks: 1.00

Bookmark

In an operating system, a running instance of a program is called _____.

- (A) Virtualization
- (B) **Thread (Correct Answer)**
- (C) Stack
- (D) Synchronization

Question No.2

Marks: 1.00

Bookmark

In PowerPoint, the box that appears below each slide, that displays text content for speakers is _____.

- (A) Source pane
- (B) Script pane
- (C) **Notes pane (Correct Answer)**
- (D) Slide pane

Question No.3

Marks: 1.00

Bookmark

_____ is a memory that is dynamically allocated during process runtime in an operating system.

- (A) Stack

- (B) **Heap (Correct Answer)**
- (C) Counter
- (D) Job

Question No.4

Marks: 1.00

Bookmark

The command that is used to check the MAC address details on a computer is _____.

- (A) **ipconfig /all (Correct Answer)**
- (B) hostname
- (C) netstat -mac
- (D) getMac

Question No.5

Marks: 1.00

Bookmark

_____ exists when there is enough total memory space to satisfy a request but available space are not contiguous.

- (A) **External fragmentation (Correct Answer)**
- (B) External Constrain
- (C) External formatting
- (D) External Indexing

Question No.6

Marks: 1.00

Bookmark

The cross-reference Menu is present in which of the following Tabs?

- (A) Page Layout Tab
- (B) Review Tab
- (C) References Tab
- (D) **Insert Tab (Correct Answer)**

Question No.7

Marks: 1.00

Bookmark

One of the early compiled and English like programming language COBOL stands for _____.

- (A) Common Business Computing Language
- (B) Common Basic Oriented Language
- (C) Common Binary Operated Language
- (D) **Common Business Oriented Language (Correct Answer)**

Question No.8

Marks: 1.00

Bookmark

_____ is the delay between the transmission of a segment and the reception of the corresponding acknowledgement in a transport protocol.

- (A) Clock Speed
- (B) Regional Internet Registry
- (C) Transmission Control Block
- (D) **Round-Trip-Time (Correct Answer)**

Question No.9

Marks: 1.00

Bookmark

RFID is one of the wireless systems used to transfer data, RFID stands for _____.

- (A) Remote Format Identification

(B) **Radio Frequency Identification (Correct Answer)**

(C) Remote Frequency Identification

(D) Radio Format Identification

Question No.10

Marks: 1.00

Bookmark

The option to change Orientation of a slide is available under _____ tab in PowerPoint.

(A) **Design (Correct Answer)**

(B) Insert

(C) View

(D) Home

Gujarati Language and Grammar - Gujarati Language and Grammar

Question No.1

Marks: 1.00

Bookmark

"ભૂખથી ય ભૂંડી ભીખ છે." આ વાક્યમાં કયો અલંકાર છે તે જણાવો.

(A) સજીવારોપણ

(B) ઉપમા

(C) **વર્ણસંગાઈ (Correct Answer)**

(D) શબ્દાનુપ્રાસ

Question No.2

Marks: 1.00

Bookmark

કયા શબ્દસમૂહ માટે 'લબ્ધપ્રતિષ્ઠ' શબ્દ વપરાય છે?

(A) જેની કીર્તિ અજરામર છે તે

(B) જન્મથી આબરૂદાર

(C) આપબળે આબરૂ જાળવનાર

(D) **જેની પ્રતિષ્ઠા જામેલી છે તે (Correct Answer)**

Question No.3

Marks: 1.00

Bookmark

તળપદી ભાષાના શબ્દ 'પાઘરું'નો અર્થ જણાવો.

(A) પાઘડી

(B) પાદર

(C) પાતળું

(D) **સીધું (Correct Answer)**

Question No.4

Marks: 1.00

Bookmark

"તમે મને શા વાસ્તે બોલાવ્યો હતો?" આ વાક્યમાં ક્રિયાવિશેષણ કયું છે?

(A) મને

(B) બોલાવ્યો

(C) હતો

(D) **શા વાસ્તે (Correct Answer)**

Question No.5

Marks: 1.00

Bookmark

નીચેના વાક્યો સાચાં છે કે ખોટાં તે જણાવો.

1. પ્રીતિ તમારી રાહ જુવે છે.

2. જૂઓ, પેલી કોની રાહ જુએ છે?

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

Question No.6

Marks: 1.00

Bookmark

આપેલા શબ્દોના અર્થભેદોનું કયું જોડકું સાચું છે?

- (A) દિશ-દિશા, દીશ- દિવસ (Correct Answer)
- (B) નાસ્તો- દોડતો, નાસતો-શિરામણ
- (C) પુરી-ખાવાની તળેલી વાનગી, પૂરી- નગરી
- (D) લક્ષ- હેતુ, લક્ષ્ય- ધ્યાન

Question No.7

Marks: 1.00

Bookmark

નીચેના વાક્યો પરથી એક અર્થપૂર્ણ સંયુક્ત વાક્ય બનાવો.

- નિકુંજ ઘણીબધી વાતો કરતો.

- મારી બધી નિરાશા દૂર કરતો.

- (A) નિકુંજ ઘણીબધી વાતો કરતો અને મારી બધી નિરાશા દૂર કરતો. (Correct Answer)
- (B) જો નિકુંજ ઘણીબધી વાતો કરતો તો મારી બધી નિરાશા દૂર કરતો.
- (C) નિકુંજ ઘણીબધી વાતો કરતો છતાં મારી બધી નિરાશા દૂર કરતો.
- (D) નિકુંજ ઘણીબધી વાતો કરતો અથવા મારી બધી નિરાશા દૂર કરતો.

Question No.8

Marks: 1.00

Bookmark

યોગ્ય રીતે પદક્રમ અને પદસંવાદ ગોઠવીને વાક્ય બનાવો.

ગોવા ક્યારેય ગઇ છે તમે?

- (A) તમે ગોવા ક્યારેય ગઇ છે?
- (B) તમે ગોવા ગઇ ક્યારેય છે?
- (C) ગોવા ક્યારેય તમે ગઇ છે?
- (D) તમે ક્યારેય ગોવા ગયા છો? (Correct Answer)

Question No.9

Marks: 1.00

Bookmark

આપેલા વિકલ્પોમાં વિરોધી શબ્દોનું કયું જોડકું ખોટું છે?

- (A) ફત્તેહ X પરાજય
- (B) ઉષા X પરોઢ (Correct Answer)
- (C) મિલન X જુદાઇ
- (D) વૃદ્ધિ X ક્ષય

Question No.10

Marks: 1.00

Bookmark

"પવિત્ર" માટે આપેલા સમાનાર્થી શબ્દોમાંથી કયો શબ્દ ખોટો છે?

- (A) શુદ્ધ
-

(B) **મરુત (Correct Answer)**

(C) પાવન

(D) પુનિત

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