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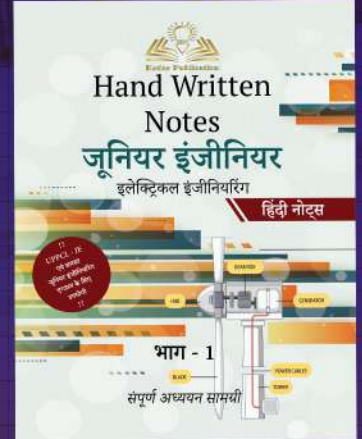
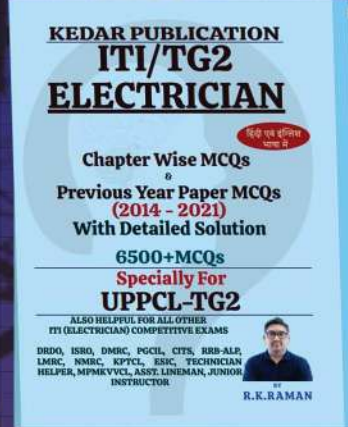
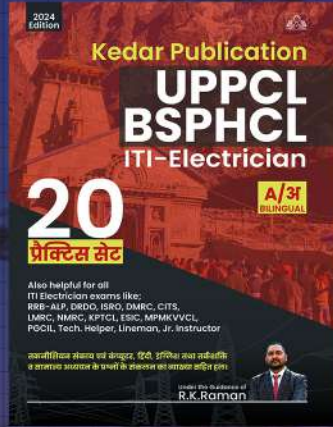
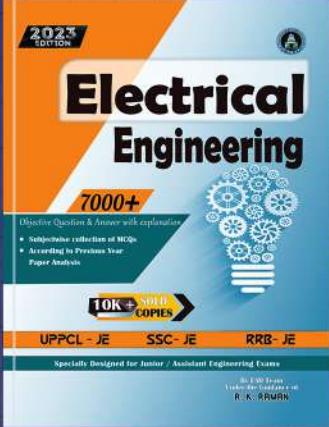
## Objective Book for

Electrical-JE

UPPCL BSPHCL

ITI-Electrician

JE Short Notes



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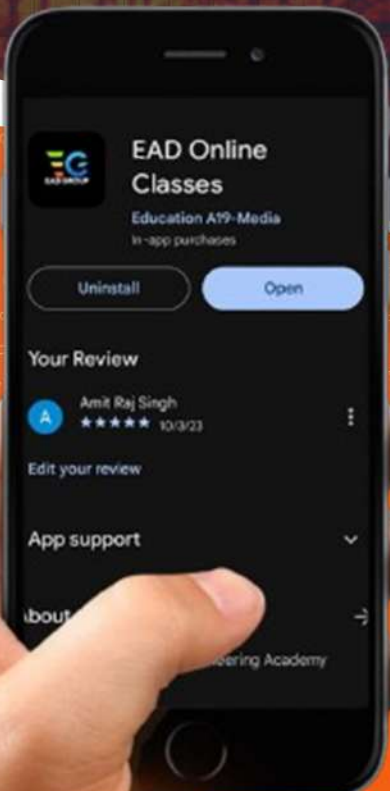
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**Raman sir**  
Electrical Engg. Expert



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Exam Date: 07-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

What is the full form of ATGM in defence technology?

- (A)  **Anti-Tank Guided Missile (Correct Answer)**  
(B)  Anti-Torpedo Guided Missile  
(C)  Anti-Torpedo Guided Motor  
(D)  Anti-Turbine Guided Missile

Question No.2

Marks: 1.00

Bookmark

Which Part was added to the Indian Constitution by 74th Constitutional Amendment Act of 1992?

- (A)  Part VII  
(B)  Part XII  
(C)  Part IV-A  
(D)  **Part IX-A (Correct Answer)**

Question No.3

Marks: 1.00

Bookmark

Where is Pangong Tso located?

- (A)  Himachal Pradesh  
(B)  **Ladakh (Correct Answer)**  
(C)  Sikkim  
(D)  Uttarakhand

Question No.4

Marks: 1.00

Bookmark

The total liability of the monetary authority of the country, RBI, is called:

- (A)  **High Powered money (Correct Answer)**  
(B)  Broad money  
(C)  Narrow money  
(D)  Fiat money

Question No.5

Marks: 1.00

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What is the scale for measuring hydrogen ion concentration in a solution called?

- (A)  Plasma Gas scale
- (B)  **pH scale (Correct Answer)**
- (C)  Flame test scale
- (D)  Desiccation scale

**Question No.6**

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Bookmark

Where is the headquarters of Asian Infrastructure Investment Bank located?

- (A)  Ho Chi Minh
- (B)  Shanghai
- (C)  Manila
- (D)  **Beijing (Correct Answer)**

**Question No.7**

Marks: 1.00

Bookmark

Name the Constitutional Amendment Act that made changes to the text of the Preamble of the Indian Constitution.

- (A)  31st Constitutional Amendment
- (B)  **42nd Constitutional Amendment (Correct Answer)**
- (C)  93rd Constitutional Amendment
- (D)  74th Constitutional Amendment

**Question No.8**

Marks: 1.00

Bookmark

When was the World Bank founded?

- (A)  1954
- (B)  1946
- (C)  **1944 (Correct Answer)**
- (D)  1945

**Question No.9**

Marks: 1.00

Bookmark

In which year was Hampi declared a World Heritage site by UNESCO?

- (A)  **1986 (Correct Answer)**
- (B)  1996
- (C)  1976
- (D)  2006

**Question No.10**

Marks: 1.00

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Who among the following freedom fighters was regarded as the 'Deshbandhu'?

- (A)  Lala Lajpat Rai
- (B)  Motilal Nehru
- (C)  **Chittaranjan Das (Correct Answer)**
- (D)  Madan Mohan Malaviya

English Knowledge - English Knowledge

Question No.1

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Bookmark

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

- (A)  Heirarchy
- (B)  Indifferance
- (C)  Feudal (Correct Answer)
- (D)  Exemplery

Question No.2

Marks: 1.00

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

- (A)  Hide
- (B)  Withhold
- (C)  Reveal (Correct Answer)
- (D)  Conceal

Question No.3

Marks: 1.00

Bookmark

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

The reviewer was provided \_\_\_\_\_ first six scripts of the show.

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

Question No.4

Marks: 1.00

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

A nursery **where children are cared for while their parents are at work**

- (A)  Hostel
- (B)  Creche (Correct Answer)
- (C)  Convent
- (D)  School

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 film **are produced and co-written by a medical professional who** says she has seen these violations happening for years.

- (A)  is produced and co-written by a medical professional who (Correct Answer)
- (B)  is produced and co-written by a medical professional whom
- (C)  The given sentence is correct

(D)  is produce and co-written by a medical professional who

**Question No.6**

Marks: 1.00

Bookmark

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

Avoiding wastage

- (A)  Pauper
- (B)  Stable
- (C)  **Economical (Correct Answer)**
- (D)  Miser

**Question No.7**

Marks: 1.00

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Fill in the blanks with suitable Preposition from the given alternatives.  
I weighed around 86 kilos and wasn't looking like anything people had seen me \_\_\_\_\_ my previous shows.

- (A)  upon
- (B)  **in (Correct Answer)**
- (C)  above
- (D)  along

**Question No.8**

Marks: 1.00

Bookmark

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

Sticky fingers.

- (A)  **Keep objects that don't belong to you (Correct Answer)**
- (B)  Something common
- (C)  Don't be so critical
- (D)  Stop working on something

**Question No.9**

Marks: 1.00

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

- (A)  Ambitious
- (B)  Alert
- (C)  **Inactive (Correct Answer)**
- (D)  Support

**Question No.10**

Marks: 1.00

Bookmark

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

- (A)  **Sharp (Correct Answer)**
- (B)  Kind
-

- (C)  Calm  
(D)  Mild

## Electrical Engineering - Electrical Engineering

### Question No.1

Marks: 1.00

Bookmark

The power and control wirings run in separate race ways in order to

- (A)  reduce heat  
(B)  increase the current carrying capacity  
(C)  increase the insulation resistance  
(D)  **reduce the radio interference (Correct Answer)**

### Question No.2

Marks: 1.00

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A relay operates with a rated current of 5 A has a relay setting of 125%. It is connected to a power system through a CT of 400/5 ratio. If the fault current is 4000 A, determine the plug setting multiplier of the relay.

- (A)  6  
(B)  10  
(C)  **8 (Correct Answer)**  
(D)  4

### Question No.3

Marks: 1.00

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

### Question No.4

Marks: 1.00

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A DC Ampere-hour meter is rated for 20 A, 200 V. The meter constant is 15 A-sec/revolutions. The meter constant at rated voltage may be expressed as

- (A)  2400 revolutions/kWhr  
(B)  3600 revolutions/kWhr  
(C)  **1200 revolutions/kWhr (Correct Answer)**  
(D)  4800 revolutions/kWhr

### Question No.5

Marks: 1.00

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The main requirement of the insulating material used for the cable is/are

- (A)  Low dielectric strength to avoid electrical breakdown of cable  
(B)  **Low coefficient of thermal expansion (Correct Answer)**  
(C)  Low insulation resistance to avoid leakage current  
(D)  All of the above

**Question No.6**

Marks: 1.00

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A Static Synchronous Series Compensator (SSSC) can produce ..... inductive and ..... capacitive compensating voltage with any level of line current.

- (A)  minimum, minimum
- (B)  maximum, minimum
- (C)  minimum, maximum,
- (D)  **maximum, maximum (Correct Answer)**

**Question No.7**

Marks: 1.00

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\_\_\_\_\_ is a paradigm of distributed computing to provide the customers on-demand and utility based computing services.

- (A)  **Cloud Computing (Correct Answer)**
- (B)  Private Computing
- (C)  Remote Sensing
- (D)  Remote Invocation

**Question No.8**

Marks: 1.00

Bookmark 

Which one of the following statements about current transformer is correct?

- (A)  **Using current transformer, a low range ammeter (about 0 - 5 A) can be utilized to measure high currents. (Correct Answer)**
- (B)  The secondary side of the current transformer can be open circuited without any damage.
- (C)  The primary winding of the current transformer has large number of turns.
- (D)  In current transformer, the primary current relies on secondary side circuit conditions.

**Question No.9**

Marks: 1.00

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Mho relay is

- (A)  **Current restrained directional relay**
- (B)  Current restrained current relay
- (C)  Voltage restrained current relay
- (D)  **Voltage restrained directional relay (Correct Answer)**

**Question No.10**

Marks: 1.00

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A buck-boost converter has input voltage of 15 V. The duty cycle is 0.25 and it operates at 20 kHz. Assume an average load current as 2 A, determine the critical value of the capacitance C.

- (A)  **2.5  $\mu$ F (Correct Answer)**
- (B)  1.67  $\mu$ F
- (C)  5  $\mu$ F
- (D)  1.25  $\mu$ F

**Question No.11**

Marks: 1.00

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A long transmission line has a large capacitance. If such a line is open-circuited or connected to the very light load at the receiving end, the magnitude of the voltage at the receiving end becomes higher than the voltage at the sending end. Such a phenomenon is called:

- (A)  Corona loss
- (B)  Sag in transmission lines
- (C)  Skin effect
- (D)  Ferranti effect (Correct Answer)

**Question No.12**

Marks: 1.00

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Which of the following tests is performed for ascertaining whether the battery plates are defective or not?

- (A)  Specific gravity test
- (B)  Cadmium test (Correct Answer)
- (C)  High discharge test
- (D)  None of the above

**Question No.13**

Marks: 1.00

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The reactance of a generator designated 'X' is given as 0.5 pu based on the generator's name plate rating of 13 kV, 50 MVA. If the base for calculations is changed to 20 kV, 100 MVA, the generator reactance 'X' on new base will be

- (A)  0.5917 pu
- (B)  0.1056 pu
- (C)  2.3668 pu
- (D)  0.4225 pu (Correct Answer)

**Question No.14**

Marks: 1.00

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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 line voltage.

- (A)  65.82 kV
- (B)  72.75 kV (Correct Answer)
- (C)  58.89 kV
- (D)  79.67 kV

**Question No.15**

Marks: 1.00

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A 3-phase, induction motor draws 1000 kVA at a power factor of 0.8 lag. A synchronous condenser is connected in parallel to draw an additional 750 kVA at 0.6 power factor leading. What is the power factor of the total load supplied by the mains?

- (A)  0
- (B)  1 (Correct Answer)
- (C)  0.8



(D)  0.5

**Question No.16**

Marks: 1.00

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The third generation SCADA architecture is ..... type SCADA systems.

- (A)  distributed
- (B)  IoT
- (C)  monolithic
- (D)  **networked (Correct Answer)**

**Question No.17**

Marks: 1.00

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Which type of HVDC link uses only one conductor?

- (A)  Bipolar
- (B)  Back to back link
- (C)  Homopolar
- (D)  **Monopolar (Correct Answer)**

**Question No.18**

Marks: 1.00

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Which of the following statements is correct about lead acid batteries?

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

**Question No.19**

Marks: 1.00

Bookmark

Nickel-Cadmium batteries are preferred more than Lead-Acid batteries in military applications because \_\_\_\_

- (A)  Can be easily charged and discharged.
- (B)  Discharge rate is higher
- (C)  Delivers large amount of power
- (D)  **All of the above (Correct Answer)**

**Question No.20**

Marks: 1.00

Bookmark

The Burden of protective Current Transformer (CT) is specified in

- (A)  Percentage of load current
- (B)  Percentage Ratio error
- (C)  **Volt-Ampere (Correct Answer)**
- (D)  ohm-metre

**Question No.21**

Marks: 1.00

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Wind turbine blades have ..... type cross section to extract energy from wind.

- (A)  circular
- (B)  rectangular
- (C)  elliptical
- (D)  **aerofoil (Correct Answer)**

**Question No.22**

Marks: 1.00

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Which of the following are the benefits offered by the fault current limiters to electric utilities?

- (i) Enhanced system safety, stability and efficiency of the power delivery systems
- (ii) Reduced wide-area blackouts and increased recovery time when disruptions do occur
- (iii) Improved system reliability when renewables and distributed generation are added to the electric grid.

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

**Question No.23**

Marks: 1.00

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Consider a lossy transmission line with  $V_1$  and  $V_2$  as the sending and receiving end voltages, respectively.  $Z$  and  $X$  are the series impedance and reactance of the line, respectively. The steady-state stability limit for the transmission line will be

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

**Question No.24**

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The angle made in the horizontal plane between the horizontal line due south and the projection of the line of sight of the sun on the horizontal plane is called:

- (A)  Hour angle
- (B)  Surface azimuth angle
- (C)  **Solar azimuth angle (Correct Answer)**
- (D)  Solar zenith angle

**Question No.25**

Marks: 1.00

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Which is the correct expression for IEC extremely inverse over current relay characteristics?

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

**Question No.26**

Marks: 1.00

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Multimode step index fiber has ..... core diameter and ..... numerical aperture.

- (A)  large, small
- (B)  small, small
- (C)  **large, large (Correct Answer)**
- (D)  small, large

**Question No.27**

Marks: 1.00

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The no-load current of a single phase transformer is 5 A at 0.3 power factor when supplied at 230 V, 50 Hz. The number of turns on the primary winding is 200. Calculate the core loss.

- (A)  400 W
- (B)  **345 W (Correct Answer)**
- (C)  300 W
- (D)  375 W

**Question No.28**

Marks: 1.00

Bookmark 

Overhead transmission lines are protected from lightning overvoltages by

- (A)  Shunt reactors
- (B)  **Ground or shield wires above the main conductors (Correct Answer)**
- (C)  Counter poise wires
- (D)  Protector tubes

**Question No.29**

Marks: 1.00

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STATCOM + SSSC will make

- (A)  SVC
- (B)  **UPFC (Correct Answer)**
- (C)  TCSC
- (D)  UPQC

**Question No.30**

Marks: 1.00

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The portion between transmission tower body and peak in vertical configuration is known as ..... of transmission tower.

- (A)  **cage (Correct Answer)**
- (B)  boom
- (C)  leg
- (D)  cross arm

**Question No.31**

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- (A)   $V_{ec} = -22 \text{ V}$  (Correct Answer)  
(B)   $V_{ec} = -18 \text{ V}$   
(C)   $V_{ec} = -25 \text{ V}$   
(D)   $V_{ec} = -12 \text{ V}$

**Question No.32**

Marks: 1.00

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Which of these are cyber-attacks?

- (i) Denial-of-service attack  
(ii) Password sniffing  
(iii) Trojans and viruses attack  
(A)  Only (i) and (iii) are correct  
(B)  Only (i) and (ii) are correct  
(C)  Only (ii) and (iii) are correct  
(D)  All (i), (ii) and (iii) are correct (Correct Answer)

**Question No.33**

Marks: 1.00

Bookmark

Select the incorrect statement:

- (A)  With GIS technology, the clearance needed for phase to phase or phase to ground for all equipment is much less than that of an air insulated substation.  
(B)  GIS technology can be used for installations in areas where the cost of real estate or the aesthetic appeal and safety is a significant consideration.  
(C)  A gas insulated substation (GIS) is a high voltage substation with sulfur hexafluoride (SF<sub>6</sub>) gas as the insulating medium.  
(D)  The cost of GIS system is less compared to that of a conventional air insulated substation. (Correct Answer)

**Question No.34**

Marks: 1.00

Bookmark

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

**Question No.35**

Marks: 1.00

Bookmark

The refractive index of an optical fibre core is 1.40 and the relative refractive index difference between the core and cladding is 1%. Determine the refractive index of the cladding.

- (A)  1.358  
(B)  1.386 (Correct Answer)  
(C)  1.414  
(D)  1.372

**Question No.36**

Marks: 1.00

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

**Question No.37**

Marks: 1.00

Bookmark 

Which one of the following statements is INCORRECT?

- (A)  Series capacitor helps to damp out the power swings and transient effected oscillations.
- (B)  **Series capacitor increases the load angle for the same amount of power transfer with constant values of sending end and receiving end voltages. (Correct Answer)**
- (C)  Series capacitor changes the natural resonant frequency of the transmission system.
- (D)  Series capacitor reduces the line reactance and improves the regulation of the transmission line.

**Question No.38**

Marks: 1.00

Bookmark 

Consider the following statements and select the correct answer:

**Statement 1:** In vertical axis wind turbine (VAWT), the turbine generator and gearbox can be placed lower to the ground, thus facilitating easy maintenance and low construction costs.

**Statement 2:** VAWT can be used on the sites with high variable wind direction.

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

**Question No.39**

Marks: 1.00

Bookmark 

Determine the average current output and discharge time of a battery with a capacity rating of 2300 mAh if it is discharged at 2 C.

- (A)  1150 mA, 60 minutes
- (B)  1150 mA, 30 minutes
- (C)  4600 mA, 60 minutes
- (D)  **4600 mA, 30 minutes (Correct Answer)**

**Question No.40**

Marks: 1.00

Bookmark 

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

- (A)  **the primary winding draws only the no load current (Correct Answer)**
- (B)  large voltages are produced in the secondary winding which may be a safety hazard to operating personnel

- (C)  the large voltages so produced may rupture the insulation  
(D)  none of the above

**Question No.41**

Marks: 1.00

Bookmark

In SCADA system, the term 'ICCP' server stands for

- (A)  Internet Control Computer Protocol  
(B)  Inter-control Central Computer Protocol  
(C)  Internet Center Computer Protocol  
(D)  **Inter-control Center Communications Protocol (Correct Answer)**

**Question No.42**

Marks: 1.00

Bookmark

The isolators are used to break the circuit under

- (A)  full load condition  
(B)  **no load condition (Correct Answer)**  
(C)  fault conditions  
(D)  abnormal current

**Question No.43**

Marks: 1.00

Bookmark

As per IE-1957, the minimum clearance between 66 kV and 220 kV electrical lines crossing each other is .....

- (A)  5.64 m  
(B)  2.42 m  
(C)  **4.58 m (Correct Answer)**  
(D)  3.26 m

**Question No.44**

Marks: 1.00

Bookmark

- (A)  **V remains same but Q decreases (Correct Answer)**  
(B)  Q remains same but V increases  
(C)  C remains same but V increases  
(D)  Q remains same but C decreases

**Question No.45**

Marks: 1.00

Bookmark

A three phase overhead transmission line has its conductors horizontally spaced with spacing between adjacent conductors equals to 'D'. If now the conductors of the line are rearranged to form an equilateral triangle of sides equal to 'D', then

- (A)  **Average capacitance will increase and inductance will decrease (Correct Answer)**  
(B)  Average capacitance and inductance will decrease  
(C)  Average capacitance and inductance will increase  
(D)  Average capacitance will decrease and inductance will increase

**Question No.46**

Marks: 1.00

Bookmark 

Which one of the following softwares was released by Electric Power Research Institute (EPRI)?

- (A)  GridLab-D
- (B)  DIgSILENT
- (C)  ETAP
- (D)  **OpenDSS (Correct Answer)**

**Question No.47**

Marks: 1.00

Bookmark 

Differential protection principle is employed for the protection of

- (A)  transformer
- (B)  alternator
- (C)  bus-zone
- (D)  **All of the above (Correct Answer)**

**Question No.48**

Marks: 1.00

Bookmark 

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

**Question No.49**

Marks: 1.00

Bookmark 

Consider the following statements and select the correct answer:

**Statement 1:** A nickel–cadmium battery is not rechargeable and is classified as hazardous.

**Statement 2:** A lithium battery is used in watches and is not rechargeable.

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

**Question No.50**

Marks: 1.00

Bookmark 

..... is a measure of the rate at which a battery is discharged relative to its maximum capacity.

- (A)  E-rate
- (B)  A-rate
- (C)  B-rate
- (D)  **C-rate (Correct Answer)**

**Question No.51**

Marks: 1.00

Bookmark

Select the INCORRECT statement.

- (A)  In distance protection, the relay measures positive sequence impedance of the line from relay up to the fault point
- (B)  MHO relay is a high-speed relay and is normally used for the protection of transmission line.
- (C)  **IDMT relay is provided as the primary protection of transmission lines. (Correct Answer)**
- (D)  MHO relay is the main relay for protecting up to 90% of the transmission line length in the forward direction.

**Question No.52**

Marks: 1.00

Bookmark

Select the correct statement.

- (A)  The internal resistance of a lead-acid battery is higher than the internal resistance of a nickel-iron alkaline battery.
- (B)  **The number of negative plates in lead-acid battery is always one more than the positive plates. (Correct Answer)**
- (C)  When the lead-acid battery is in fully discharged condition, the colour of its positive plate will be dark brown.
- (D)  None of the above

**Question No.53**

Marks: 1.00

Bookmark

- (A)  2.5 A
- (B)  **0.5 A (Correct Answer)**
- (C)  2A
- (D)  1.5 A

**Question No.54**

Marks: 1.00

Bookmark

Kerr effect occurs when .....

- (A)  electric field is zero
- (B)  quadratic electro optic coefficient is smaller than linear electro optic coefficient
- (C)  **quadratic electro optic coefficient is larger than linear electro optic coefficient (Correct Answer)**
- (D)  magnetic field is zero

**Question No.55**

Marks: 1.00

Bookmark

Consider the following statement and select the correct answer:

**Statement 1:** For simple protective functions and for protection of simple low power equipment, electromechanical relays are preferred.

**Statement 2:** For integrated protection and monitoring systems programmable microprocessor controlled static relays are preferred.

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



- (C)  Statement 1 is TRUE and Statement 2 is FALSE  
(D)  Both Statement 1 and Statement 2 are FALSE

**Question No.56**

Marks: 1.00

Bookmark

According to the Indian electricity rules, 1956, for high voltage lines upto 11 kV, 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)  2.5 m  
(B)  2 m  
(C)  3.2 m  
(D)  **1.2 m (Correct Answer)**

**Question No.57**

Marks: 1.00

Bookmark

Which one of these is the correct ISO symbol to warn against electricity?

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

**Question No.58**

Marks: 1.00

Bookmark

Biomass can be converted into

- (A)  Solid fuel  
(B)  Liquid fuel  
(C)  Gaseous fuel  
(D)  **All of the above (Correct Answer)**

**Question No.59**

Marks: 1.00

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Select the correct statement about Line Trap.

- (A)  **It is a parallel resonant circuit which offers high impedance at tuning frequency by connecting a tuning device in parallel with the main coil. (Correct Answer)**  
(B)  It is a parallel resonant circuit which offers low impedance at tuning frequency by connecting a tuning device in series with the main coil.  
(C)  It is a series resonant circuit which offers low impedance at tuning frequency by connecting a tuning device in series with the main coil.  
(D)  It is a series resonant circuit which offers high impedance at tuning frequency by connecting a tuning device in parallel with the main coil.

**Question No.60**

Marks: 1.00

Bookmark

A contactor equipped with a thermal relay for protection against overload current is called a

- (A)  isolator  
(B)  earth switch

(C)  **discontactor (Correct Answer)**

(D)  circuit breaker

### Computer Knowledge - Computer Knowledge

#### Question No.1

Marks: 1.00

Bookmark

In Operating system scheduling queues, the list of processes waiting for a particular I/O device is called a \_\_\_\_\_.

(A)  Input queue

(B)  **Device queue (Correct Answer)**

(C)  Ready queue

(D)  Dispatch queue

#### Question No.2

Marks: 1.00

Bookmark

EEPROM is a type of memory in computer, what does EEPROM stand for \_\_\_\_\_.

(A)  Easily Erasable Programmable Read-Only Memory

(B)  **Electrically Erasable Programmable Read-Only Memory (Correct Answer)**

(C)  Electrically Erasable Page Read-Only Memory

(D)  Electrically Erasable Portable Read-Only Memory

#### Question No.3

Marks: 1.00

Bookmark

Jack Kilby was awarded the Nobel Prize in Physics in 2000 for his work on developing \_\_\_\_\_ which led to the evolution of Third generation of computers.

(A)  Transistors

(B)  Flip Flops

(C)  **Integrated Circuits (Correct Answer)**

(D)  Microprocessor Chip

#### Question No.4

Marks: 1.00

Bookmark

Which of the following is not a menu option in the changes pane of ms word?

(A)  Next

(B)  Reject

(C)  Accept

(D)  **First (Correct Answer)**

#### Question No.5

Marks: 1.00

Bookmark

\_\_\_\_\_ option in Excel allows you to easily summarize and complex data into a table.

(A)  Simple Table

(B)  Complex Table

(C)  **Pivot Table (Correct Answer)**

(D)  Illustration Table

**Question No.6**

Marks: 1.00

Bookmark 

Which of the following is not a primitive while establishing connection in connection oriented service?

- (A)  Connect. Confirm
- (B)  **Connect. Alert (Correct Answer)**
- (C)  Connect. Request
- (D)  Connect.indication

**Question No.7**

Marks: 1.00

Bookmark 

\_\_\_\_\_ is a type of system call in operating system. It's major functionalities include sending and receiving message and Help OS to transfer status information.

- (A)  **Communication (Correct Answer)**
- (B)  Device management
- (C)  System management
- (D)  Maintenance

**Question No.8**

Marks: 1.00

Bookmark 

\_\_\_\_\_ is the default port used by File Transfer protocol in networking.

- (A)  Port 1024
- (B)  **Port 20 (Correct Answer)**
- (C)  Port 127
- (D)  Port 8080

**Question No.9**

Marks: 1.00

Bookmark 

\_\_\_\_\_ memory management avoids external fragmentation and the need for compaction.

- (A)  **Paging (Correct Answer)**
- (B)  Indexing
- (C)  Partitioning
- (D)  Segmenting

**Question No.10**

Marks: 1.00

Bookmark 

You can add page numbers, dates, file names, and disclaimers to bottom of the document using \_\_\_\_\_ option.

- (A)  **Footer (Correct Answer)**
- (B)  Status bar
- (C)  Styles
- (D)  Header

Bookmark

"છેવટે ભૂખમરો સામે ધૂરકતો ઊભો." આ વાક્યમાં કયો અલંકાર છે તે જણાવો.

- (A)  વ્યતિરેક  
(B)  રૂપક  
(C)  સજીવારોપણ (Correct Answer)  
(D)  ઉપમા

**Question No.2**

Marks: 1.00

Bookmark

આપેલા શબ્દોના અર્થભેદોનું કયું જોડકું અયોગ્ય છે?

- (A)  સુરત-નગરનું નામ, સૂરત- ચહેરો  
(B)  મેશ- કાજળ, મેષ- એક રાશિનું નામ  
(C)  લાવણી- એક પંખી, લાવરી- એક નૃત્ય (Correct Answer)  
(D)  સુવા- એક વનસ્પતિ, સૂવા- ઊંઘવા

**Question No.3**

Marks: 1.00

Bookmark

"કાન્ત" શબ્દના આપેલા જુદા જુદા અર્થમાં કયો એક અયોગ્ય છે?

- (A)  પતિ  
(B)  શાંત (Correct Answer)  
(C)  પ્રિય  
(D)  ચંદ્ર

**Question No.4**

Marks: 1.00

Bookmark

યોગ્ય રીતે પદ્ધતિ અને પદ્ધતિવાદ ગોઠવીને વાક્ય બનાવો.

ઠંડા ગોળાનું પાણી મને આપો

- (A)  મને ગોળાનું ઠંડું પાણી આપો (Correct Answer)  
(B)  ઠંડા ગોળાનું મને પાણી આપો  
(C)  ઠંડા ગોળાનું પાણી મને આપો  
(D)  ઠંડા ગોળાનું પાણી આપો મને

**Question No.5**

Marks: 1.00

Bookmark

"મનોજ એક સારો માણસ બને એવું અમે જરૂર ઇચ્છતા હતાં." આ વાક્યમાં ક્રિયાવિશેષણ કયું છે?

- (A)  ઇચ્છતા  
(B)  સારો  
(C)  માણસ  
(D)  જરૂર (Correct Answer)

**Question No.6**

Marks: 1.00

Bookmark

તળપદી ભાષાના શબ્દ 'હપાડું'નો અર્થ જણાવો.

- (A)  વિનંતી  
(B)  ઉપકાર (Correct Answer)  
(C)  હરખ  
(D)  થાપટ

**Question No.7**

Marks: 1.00

Bookmark

કરેલા ઉપકારને ભૂલી જનાર' - આને એક શબ્દમાં શું કહેવાય?

- (A)  કૃતનિશ્ચયી  
(B)  કૃતજ્ઞી  
(C)  કૃતાર્થી  
(D)  કૃતધ્ની (Correct Answer)

**Question No.8**

Marks: 1.00

Bookmark

નીચેના વાક્યો પરથી એક સંકુલ વાક્ય બનાવો.

-મેં મોં ખોલ્યું

- તેને હસવું આવ્યું.

- (A)  મેં મોં ખોલ્યું અને તેને હસવું આવ્યું  
(B)  મેં મોં ખોલ્યું પણ તેને હસવું આવ્યું  
(C)  જેવું મેં મોં ખોલ્યું તેવું તેને હસવું આવ્યું (Correct Answer)  
(D)  મેં મોં ખોલ્યું છતાં તેને હસવું આવ્યું

**Question No.9**

Marks: 1.00

Bookmark

નીચેના વાક્યો સાચાં છે કે ખોટાં તે જણાવો.

1. ગઈ કાલે તમે ક્યાં ક્યાં ફર્યા હતા?

2. કબાટમાંથી તમે ક્યાં ક્યાં પુસ્તકો લીધા છે?

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

**Question No.10**

Marks: 1.00

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આપેલા વિકલ્પોમાં કયું વિરોધી જોડકું ખોટું છે?

- (A)  આત્મલક્ષી X સ્વલક્ષી (Correct Answer)  
(B)  આર્દ્ર X શુષ્ક  
(C)  આદાન X પ્રદાન  
(D)  એકધા X બહુધા



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