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(Electrical)

05 May, 2023





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ODISHA POWER TRANSMISSION CORPORATION LIMITED

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Participant ID	
Participant Name	
Test Center Name	
Test Date	05/05/2023
Test Time	2:00 PM - 5:00 PM
Subject	JMT (Electrical) Initial Appointee

Section : Subject Knowledge

Q.1 If the transmission line is lossy, the characteristic impedance is _____.

Ans 1. infinity

2. complex number

3. zero

4. unity

Question ID : 630680214876

Option 1 ID : 630680833530

Option 2 ID : 630680833529

Option 3 ID : 630680833527

Option 4 ID : 630680833528

Status : Answered

Chosen Option : 2

Q.2 A 250 V lamp has a total flux of 1256 lumens and takes a current of 0.4 A. Calculate the MSCP per watt.

Ans 1. 0.6

2. 1.5

3. 1

4. 1.2

Question ID : 630680214924

Option 1 ID : 630680833719

Option 2 ID : 630680833722

Option 3 ID : 630680833720

Option 4 ID : 630680833721

Status : Answered

Chosen Option : 3

Q.3 Which of the following is needed when an adder is to be used as a subtractor?

Ans 1. Ramp input

2. Schmitt trigger

3. Controlled inverter

4. JK flipflop

Question ID : 630680214912

Option 1 ID : 630680833672

Option 2 ID : 630680833671

Option 3 ID : 630680833674

Option 4 ID : 630680833673

Status : Not Answered

Chosen Option : --

Q.4 In a series RL circuit, the voltages across resistor and inductor are 12 V and 5 V, respectively. Find the applied voltage.

Ans 1. 17 V

2. 15 V

3. 7 V

4. 13 V

Question ID : 630680214833

Option 1 ID : 630680833355

Option 2 ID : 630680833356

Option 3 ID : 630680833358

Option 4 ID : 630680833357

Status : Answered

Chosen Option : 4

Q.5 The cyclic irregularity of an alternator is measured as:

Ans 1. $\frac{\text{Maximum speed} - \text{Minimum speed}}{\text{Maximum speed} - \text{Mean speed}}$

2. $\frac{\text{Maximum speed} - \text{Minimum speed}}{\text{Minimum speed}}$

3. $\frac{\text{Maximum speed} - \text{Minimum speed}}{\text{Mean speed}}$

4. $\frac{\text{Maximum speed} - \text{Minimum speed}}{\text{Maximum speed}}$

Question ID : 630680214964

Option 1 ID : 630680833882

Option 2 ID : 630680833880

Option 3 ID : 630680833881

Option 4 ID : 630680833879

Status : Answered

Chosen Option : 4

Q.6 Strain gauge CANNOT be used for the measurement of:

Ans 1. weight
 2. temperature
 3. force
 4. pressure

Question ID : 630680214872

Option 1 ID : 630680833513

Option 2 ID : 630680833514

Option 3 ID : 630680833512

Option 4 ID : 630680833511

Status : **Answered**

Chosen Option : 2

Q.7 Using Nyquist criterion, determine the stability of a feedback system with $G(s) = \frac{250}{s^2 + 4s + 50}$ and $H(s) = 1$.

Ans 1. Unstable
 2. Conditional stable
 3. Marginally stable
 4. Stable

Question ID : 630680214963

Option 1 ID : 630680833876

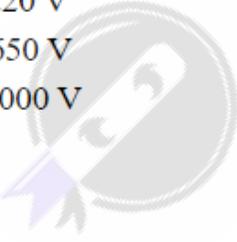
Option 2 ID : 630680833878

Option 3 ID : 630680833877

Option 4 ID : 630680833875

Status : **Not Answered**

Chosen Option : --

Q.8 Due to the limitation of commutator DC generators are not usually designed beyond _____. 

Ans 1. 330 V
 2. 220 V
 3. 650 V
 4. 1000 V

Question ID : 630680214854

Option 1 ID : 630680833441

Option 2 ID : 630680833442

Option 3 ID : 630680833440

Option 4 ID : 630680833439

Status : **Not Answered**

Chosen Option : --

Q.9 Calculate the number of poles required to achieve a stepping angle of 2.5° in a 3-phase permanent magnet stepper motor.

Ans 1. 24

2. 36

3. 60

4. 48

Question ID : 630680214905

Option 1 ID : 630680833643

Option 2 ID : 630680833644

Option 3 ID : 630680833646

Option 4 ID : 630680833645

Status : Not Answered

Chosen Option : --

Q.10 Which of the following are the two main components of a static VAR compensator?

Ans 1.

Thyristor-controlled and thyristor-switched rectifier and thyristor-switched inductor

2.

Thyristor-controlled and thyristor-switched rectifier and thyristor-switched capacitor

3.

Thyristor-controlled and thyristor-switched reactor and thyristor-switched capacitor

4.

Thyristor-controlled and thyristor-switched reactor and thyristor-switched inductor

Question ID : 630680214934

Option 1 ID : 630680833762

Option 2 ID : 630680833761

Option 3 ID : 630680833759

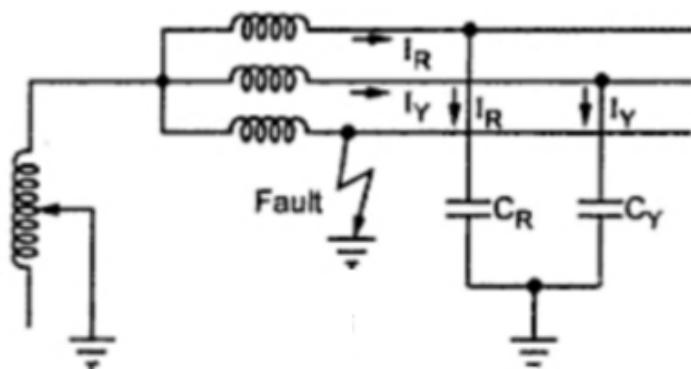
Option 4 ID : 630680833760

Status : Not Answered

Chosen Option : --



Q.11



Identify the grounding system shown in this figure.

Ans

- 1. Solid grounding
- 2. Resistance grounding
- 3. Reactance grounding
- 4. Resonant grounding

Question ID : 630680214953

Option 1 ID : 630680833838

Option 2 ID : 630680833836

Option 3 ID : 630680833835

Option 4 ID : 630680833837

Status : Answered

Chosen Option : 3

Q.12 A 3½ digit DMM shows maximum display on the 2V scale is _____, with 1 mV resolution.

Ans

- 1. 0.999 V
- 2. 1.999 V
- 3. 3.999 V
- 4. 2.999 V



Question ID : 630680214828

Option 1 ID : 630680833335

Option 2 ID : 630680833336

Option 3 ID : 630680833338

Option 4 ID : 630680833337

Status : Answered

Chosen Option : 2

Q.13 The signal to be observed or measured on CRO is usually applied to the _____.

Ans 1. control grid

2. horizontal deflection plates

3. focusing anode

4. vertical deflection plates

Question ID : 630680214874

Option 1 ID : 630680833521

Option 2 ID : 630680833520

Option 3 ID : 630680833522

Option 4 ID : 630680833519

Status : Answered

Chosen Option : 3

Q.14 Determine the gain at the breakaway point of the characteristic equation $K = -s(s + 1)$.

Ans 1. -0.25

2. 0.5

3. 0.25

4. -0.5

Question ID : 630680214961

Option 1 ID : 630680833868

Option 2 ID : 630680833870

Option 3 ID : 630680833869

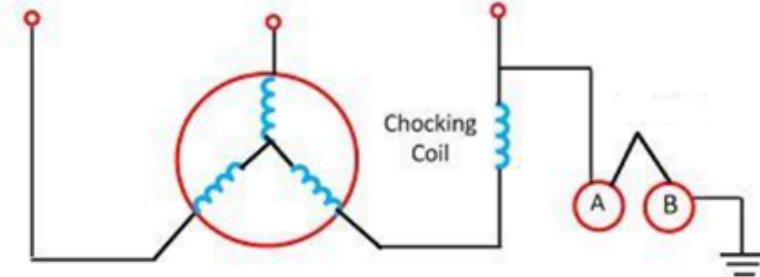
Option 4 ID : 630680833867

Status : Not Answered

Chosen Option : --



Q.15



The lightning arrester shown in the picture is:

Ans

- 1. multiple-gap arrester
- 2. rod gap arrester
- 3. sphere gap arrester
- 4. horn gap arrester

Question ID : 630680214955
Option 1 ID : 630680833846
Option 2 ID : 630680833843
Option 3 ID : 630680833844
Option 4 ID : 630680833845
Status : Not Answered
Chosen Option : --

Q.16 The range of memory space in 8085 microprocessors is:

Ans

- 1. 0000H to FFFFH
- 2. 00001 to FFFFH
- 3. 00001 to HHHHF
- 4. 0000F to HHHHF



Question ID : 630680214917
Option 1 ID : 630680833691
Option 2 ID : 630680833693
Option 3 ID : 630680833694
Option 4 ID : 630680833692
Status : Not Answered
Chosen Option : --

Q.17 The illumination level in Lux recommended for colour matching is:

Ans 1. 200-300-500
 2. 750-1000-1500
 3. 300-500-750
 4. 500-750-1000

Question ID : 630680214942

Option 1 ID : 630680833791

Option 2 ID : 630680833794

Option 3 ID : 630680833792

Option 4 ID : 630680833793

Status : Not Answered

Chosen Option : --

Q.18 Which class of power amplifier is best in terms of the maximum efficiency possible?

Ans 1. Class A
 2. Class C
 3. Class B
 4. Class AB

Question ID : 630680214863

Option 1 ID : 630680833475

Option 2 ID : 630680833478

Option 3 ID : 630680833476

Option 4 ID : 630680833477

Status : Answered

Chosen Option : 2

Q.19 Four inductors are connected in series, having values 10 mH, 20 mH, 30 mH and 40 mH, with no mutual inductance. Calculate the total inductance.

Ans 1. 10 mH
 2. 100 mH
 3. 50 mH
 4. 25 mH

Question ID : 630680214830

Option 1 ID : 630680833343

Option 2 ID : 630680833346

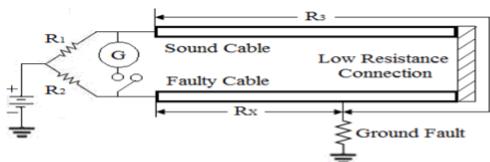
Option 3 ID : 630680833345

Option 4 ID : 630680833344

Status : Answered

Chosen Option : 2

Q.20



Find L_x (the length between the test end and the fault end of the faulty cable) if L represents the total length of both the cables in Murray loop test.

Ans

✓ 1. $L_x = \frac{LR_2}{R_1 + R_2}$

✗ 2. $L_x = \frac{LR_2}{R_2 - R_1}$

✗ 3. $L_x = \frac{LR_1}{R_1 + R_2}$

✗ 4. $L_x = \frac{LR_1}{R_1 - R_2}$

Question ID : 630680214948

Option 1 ID : 630680833816

Option 2 ID : 630680833818

Option 3 ID : 630680833815

Option 4 ID : 630680833817

Status : Answered

Chosen Option : 1

Q.21 What will be the peak demand of a power plant operated with an average demand of 98 MW and a load factor of 0.7?

Ans

- ✗ 1. 108 MW
- ✗ 2. 68 MW
- ✓ 3. 140 MW
- ✗ 4. 120 MW

Question ID : 630680214893

Option 1 ID : 630680833598

Option 2 ID : 630680833595

Option 3 ID : 630680833596

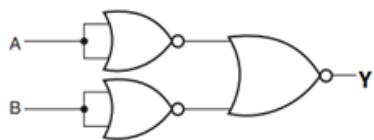
Option 4 ID : 630680833597

Status : Answered

Chosen Option : 3



Q.22 Find the expression for Y from the following combination of logic gates.



Ans

- 1. $A \cdot B$
- 2. $A \oplus B$
- 3. $\overline{A \oplus B}$
- 4. $A + B$

Question ID : 630680214911
Option 1 ID : 630680833668

Option 2 ID : 630680833669

Option 3 ID : 630680833670

Option 4 ID : 630680833667

Status : Answered

Chosen Option : 3

Q.23 The energy gap between valence and conduction bands is the largest in a/an _____.

Ans

- 1. conductor
- 2. semiconductor
- 3. superconductor
- 4. insulator

Question ID : 630680214903

Option 1 ID : 630680833637

Option 2 ID : 630680833636

Option 3 ID : 630680833635

Option 4 ID : 630680833638

Status : Answered

Chosen Option : 4



Q.24 Which of the options will be displayed by the seven-segment display system in 8085 microprocessors in response to the following instructions?

MVIA, 78H

OUT F5H

HLT

Ans 1. 7
 2. 3
 3. 5
 4. 8

Question ID : 630680214916

Option 1 ID : 630680833689

Option 2 ID : 630680833687

Option 3 ID : 630680833688

Option 4 ID : 630680833690

Status : Not Answered

Chosen Option : --

Q.25 Inspection for the general condition and oil level for a medium installation transformer is carried out:

Ans 1. monthly
 2. daily
 3. bimonthly
 4. weekly

Question ID : 630680214965

Option 1 ID : 630680833885

Option 2 ID : 630680833883

Option 3 ID : 630680833886

Option 4 ID : 630680833884

Status : Answered

Chosen Option : 1

Q.26 In an alternator, the return path for the flux is obtained through the _____.

Ans 1. voltage regulator
 2. rectifier
 3. slip ring
 4. stator frame

Question ID : 630680214884

Option 1 ID : 630680833561

Option 2 ID : 630680833560

Option 3 ID : 630680833559

Option 4 ID : 630680833562

Status : Answered

Chosen Option : 3

Q.27 Which of the following instructions in 8085 microprocessors loads a data byte directly?

Ans 1. IN
 2. MOV
 3. MVI
 4. OUT

Question ID : 630680214915

Option 1 ID : 630680833683

Option 2 ID : 630680833684

Option 3 ID : 630680833685

Option 4 ID : 630680833686

Status : Not Answered

Chosen Option : --

Q.28 Which of the following statements is NOT true for wind energy?

Ans 1. Wind energy is relatively expensive.
 2. Wind energy is a steady and reliable source of electricity.
 3. Wind energy is eco-friendly.
 4. Wind turbines take up less space.

Question ID : 630680214980

Option 1 ID : 630680833944

Option 2 ID : 630680833945

Option 3 ID : 630680833943

Option 4 ID : 630680833946

Status : Answered

Chosen Option : 2

Q.29 Which of the following electroplating processes gives a highly polished and extremely hard coating?

Ans 1. Silver plating
 2. Chromium plating
 3. Gold plating
 4. Copper plating

Question ID : 630680214919

Option 1 ID : 630680833702

Option 2 ID : 630680833700

Option 3 ID : 630680833701

Option 4 ID : 630680833699

Status : Answered

Chosen Option : 1

Q.30 Which of the following statements is INCORRECT for a voltmeter?

Ans 1. It is used to measure potential difference.

2. It is always connected in parallel.

3. Internal resistance is very high.

4.

A galvanometer can be converted into a voltmeter using a low value shunt resistance.

Question ID : 630680214866

Option 1 ID : 630680833489

Option 2 ID : 630680833487

Option 3 ID : 630680833488

Option 4 ID : 630680833490

Status : Answered

Chosen Option : 3

Q.31 The capacities of medium transformer installation in small substations are with unit capacities of:

Ans 1. 1000 KVA to 10,000 KVA

2. 1000 KVA to 1500 KVA

3. 100 KVA to 250 KVA

4. 250 KVA to 1000 KVA

Question ID : 630680214968

Option 1 ID : 630680833898

Option 2 ID : 630680833897

Option 3 ID : 630680833895

Option 4 ID : 630680833896

Status : Answered

Chosen Option : 4

Q.32 How many electrons are there in the second orbit of a germanium atom?

Ans 1. 18

2. 4

3. 8

4. 2

Question ID : 630680214840

Option 1 ID : 630680833385

Option 2 ID : 630680833386

Option 3 ID : 630680833384

Option 4 ID : 630680833383

Status : Answered

Chosen Option : 3

Q.33 Where should the bedside switch be mounted in domestic electrical installations?

Ans 1. 1.25 metre from the floor level
 2. 1 metre from the floor level
 3. 0.3 metre from the floor level
 4. 0.7 metre from the floor level

Question ID : 630680214940

Option 1 ID : 630680833786

Option 2 ID : 630680833785

Option 3 ID : 630680833783

Option 4 ID : 630680833784

Status : Answered

Chosen Option : 2

Q.34 The chemical process where biomass is heated and dried to be used in combustion or gasification is known as:

Ans 1. torrefaction
 2. hydrophobic
 3. briquettes
 4. photosynthesis

Question ID : 630680214981

Option 1 ID : 630680833950

Option 2 ID : 630680833948

Option 3 ID : 630680833947

Option 4 ID : 630680833949

Status : Not Answered

Chosen Option : --

Q.35 Which of the following lighting systems has the best colour rendering index?

Ans 1. Incandescent
 2. High pressure sodium
 3. Low pressure sodium
 4. High pressure mercury

Question ID : 630680214941

Option 1 ID : 630680833787

Option 2 ID : 630680833790

Option 3 ID : 630680833789

Option 4 ID : 630680833788

Status : Answered

Chosen Option : 3

Q.36 Which of the following is NOT true pertaining to tidal energy?

Ans 1.

Tidal energy is also used to store energy in hydroelectric dams.

2.

Tidal barrages may cause damage to the coast during high storms.

3. Tidal currents or waves are highly predictable.

4. It is possible to generate electric power at very low speeds.

Question ID : 630680214983

Option 1 ID : 630680833955

Option 2 ID : 630680833956

Option 3 ID : 630680833957

Option 4 ID : 630680833958

Status : Answered

Chosen Option : 1

Q.37 Which of the following effects is utilised for the generation of electricity by using solar energy?

Ans 1. Seebeck effect

2. Photo conductive effect

3. Photo voltaic effect

4. Peltier effect

Question ID : 630680214974

Option 1 ID : 630680833922

Option 2 ID : 630680833919

Option 3 ID : 630680833920

Option 4 ID : 630680833921

Status : Answered

Chosen Option : 2

Q.38 Which of the following materials has positive temperature coefficient of resistance?

Ans 1. Silicon

2. Germanium

3. Aluminium

4. Carbon

Question ID : 630680214838

Option 1 ID : 630680833375

Option 2 ID : 630680833376

Option 3 ID : 630680833377

Option 4 ID : 630680833378

Status : Answered

Chosen Option : 3

Q.39 Which of the following is true for the signal flow graph.

Ans ✗ 1. Applied to both linear and non-linear systems

✓ 2. Signal flow graph of a system is not unique.

✗ 3.

Overall gain of a signal flow graph cannot be determined by using Mason's gain formula.

✗ 4.

Multiplication of all incoming signals and outgoing nodes is zero.

Question ID : 630680214959

Option 1 ID : 630680833859

Option 2 ID : 630680833862

Option 3 ID : 630680833860

Option 4 ID : 630680833861

Status : Not Answered

Chosen Option : --

Q.40 In a synchronous machine, as the machine size decreases:

✗ 1.

armature resistance decreases and synchronous reactance increases

✗ 2.

armature resistance and synchronous reactance both decrease

✓ 3.

armature resistance increases and synchronous reactance decreases

✗ 4.

armature resistance and synchronous reactance both increase

Question ID : 630680214906

Option 1 ID : 630680833648

Option 2 ID : 630680833649

Option 3 ID : 630680833647

Option 4 ID : 630680833650

Status : Answered

Chosen Option : 2

Q.41 A 4-pole, 50 Hz, 3-phase induction motor runs at a speed of 1200 rpm. Find the slip.

Ans ✗ 1. 0.1

✗ 2. 0.25

✗ 3. 0.15

✓ 4. 0.2

Question ID : 630680214887

Option 1 ID : 630680833571

Option 2 ID : 630680833574

Option 3 ID : 630680833572

Option 4 ID : 630680833573

Status : Answered

Chosen Option : 4

Q.42 An overhead service line is given to a single-storied building by using PVC or a weather-proof cable is connected along with a GI wire of:

Ans 1. 8 SWG
 2. 12 SWG
 3. 5 SWG
 4. 10 SWG

Question ID : 630680214946

Option 1 ID : 630680833808

Option 2 ID : 630680833810

Option 3 ID : 630680833807

Option 4 ID : 630680833809

Status : Not Answered

Chosen Option : --

Q.43 The purpose of static switches is to:

Ans 1. connect or disconnect AC or DC input voltage to load
 2. convert fixed DC voltage into variable DC voltage
 3. convert DC voltage into variable AC voltage
 4. convert AC voltage into fixed DC voltage

Question ID : 630680214929

Option 1 ID : 630680833742

Option 2 ID : 630680833740

Option 3 ID : 630680833741

Option 4 ID : 630680833739

Status : Answered

Chosen Option : 1

Q.44 The impedance of the circuit placed across the source of 120 V, 50 Hz is $(10 + j 20) \Omega$. Find the current.

Ans 1. $(2.4 - j 4.8) \text{ A}$
 2. $(2.4 + j 4.8) \text{ A}$
 3. $(2.5 - j 5) \text{ A}$
 4. $(2.5 + j 5) \text{ A}$

Question ID : 630680214892

Option 1 ID : 630680833593

Option 2 ID : 630680833592

Option 3 ID : 630680833594

Option 4 ID : 630680833591

Status : Answered

Chosen Option : 4

Q.45 Heavy water is used in a _____ power plant as the _____.

Ans

- 1. nuclear; fuel
- 2. nuclear; moderator
- 3. steam; Fuel
- 4. hydroelectric; moderator

Question ID : 630680214826

Option 1 ID : 630680833330

Option 2 ID : 630680833328

Option 3 ID : 630680833329

Option 4 ID : 630680833327

Status : Answered

Chosen Option : 2

Q.46 Which of the following materials has the highest thermal conductivity?

Ans

- 1. Glass (window)
- 2. Concrete
- 3. Saw dust
- 4. Water

Question ID : 630680214921

Option 1 ID : 630680833708

Option 2 ID : 630680833707

Option 3 ID : 630680833709

Option 4 ID : 630680833710

Status : Answered

Chosen Option : 1

Q.47 The arrester consists of a tube made up of fibre, which is very effective with an isolating spark gap, and an interrupting spark gap inside the fibre tube is:

Ans

- 1. rod gap lightning arrester
- 2. valve type lightning arrester
- 3. expulsion type lightning arrester
- 4. thyrite lightning arrester

Question ID : 630680214945

Option 1 ID : 630680833804

Option 2 ID : 630680833806

Option 3 ID : 630680833803

Option 4 ID : 630680833805

Status : Answered

Chosen Option : 1

Q.48 Which of the following testers is used for higher voltages, above 11 kV?

Ans 1. Two 250 V lamps in series

2. One 250 V lamp could be used as a test lamp

3. Metric live-line indicator

4. Spark tester

Question ID : 630680214970

Option 1 ID : 630680833904

Option 2 ID : 630680833903

Option 3 ID : 630680833906

Option 4 ID : 630680833905

Status : Answered

Chosen Option : 3

Q.49 Which of the following is NOT a part of an electron gun inside the cathode ray tube of a CRO?

Ans 1. Grid

2. Graticule

3. Cathode

4. Focusing Anode

Question ID : 630680214908

Option 1 ID : 630680833656

Option 2 ID : 630680833658

Option 3 ID : 630680833655

Option 4 ID : 630680833657

Status : Answered

Chosen Option : 2

Q.50 Transmission voltage in the range of 400 kV to 750 kV refers to _____ transmission line.

Ans 1. LT

2. EHV

3. HT

4. ST

Question ID : 630680214879

Option 1 ID : 630680833542

Option 2 ID : 630680833540

Option 3 ID : 630680833539

Option 4 ID : 630680833541

Status : Answered

Chosen Option : 2

Q.51 The relative magnetic permeability of ferromagnetic materials:

Ans 1. is always zero

2. varies with the magnetic field strength

3. is always constant

4. is always unity

Question ID : 630680214894

Option 1 ID : 630680833599

Option 2 ID : 630680833601

Option 3 ID : 630680833600

Option 4 ID : 630680833602

Status : Answered

Chosen Option : 2

Q.52 Which of the following is NOT essential for a grid connected solar system?

Ans 1. Batteries

2. Inverter

3. Electricity meter

4. The electricity grid

Question ID : 630680214976

Option 1 ID : 630680833930

Option 2 ID : 630680833928

Option 3 ID : 630680833929

Option 4 ID : 630680833927

Status : Answered

Chosen Option : 1

Q.53 If a force f is applied on a mass M and it displays distance x_1 in the direction of f and distance x_2 in the opposite direction, then the value of f is:

Ans 1. $f = M \left(\frac{d^2 x_1}{dt^2} - \frac{d^2 x_2}{dt^2} \right)$

2. $f = M \left(\frac{dx_1}{dt} - \frac{dx_2}{dt} \right)$

3. $f = M \left(\frac{dx_1}{dt} + \frac{dx_2}{dt} \right)$

4. $f = M \left(\frac{d^2 x_1}{dt^2} + \frac{d^2 x_2}{dt^2} \right)$

Question ID : 630680214957

Option 1 ID : 630680833852

Option 2 ID : 630680833854

Option 3 ID : 630680833853

Option 4 ID : 630680833851

Status : Answered

Chosen Option : 3

Q.54 A transmission line of surge impedance 300Ω is connected to a load of 100Ω . The reflection coefficient of the transmission line at the load end is:

Ans 1. 0.5

2. 1.0

3. 0.75

4. 0

Question ID : 630680214877

Option 1 ID : 630680833532

Option 2 ID : 630680833534

Option 3 ID : 630680833533

Option 4 ID : 630680833531

Status : Not Answered

Chosen Option : --

Q.55 Relays in which the operation is governed by the ratio of applied voltage to current in the protected circuit are known as:

Ans 1. distance relays

2. loss of excitation relays

3. reverse power relays

4. differential protection relays

Question ID : 630680214952

Option 1 ID : 630680833831

Option 2 ID : 630680833833

Option 3 ID : 630680833834

Option 4 ID : 630680833832

Status : Answered

Chosen Option : 4

Q.56 Which of the following is NOT used in the preparation of nylon?

Ans 1. Coal

2. Water

3. Wool

4. Air

Question ID : 630680214851

Option 1 ID : 630680833427

Option 2 ID : 630680833428

Option 3 ID : 630680833430

Option 4 ID : 630680833429

Status : Answered

Chosen Option : 4

Q.57 In an induction type energy meter, which of the following is NOT a part of the driving system?

Ans 1. Pressure coil
 2. Permanent magnet
 3. Current coil
 4. Electromagnet

Question ID : 630680214869

Option 1 ID : 630680833500

Option 2 ID : 630680833502

Option 3 ID : 630680833501

Option 4 ID : 630680833499

Status : Answered

Chosen Option : 2

Q.58 Which of the following is NOT covered under operational cost in a power system?

Ans 1. Maintenance cost
 2. Operating labour cost
 3. Depreciation cost
 4. Fuel cost

Question ID : 630680214907

Option 1 ID : 630680833653

Option 2 ID : 630680833651

Option 3 ID : 630680833652

Option 4 ID : 630680833654

Status : Answered

Chosen Option : 2

Q.59 Mercury vapour light is always:

Ans 1. yellow
 2. bluish
 3. orange-yellow
 4. orange-red

Question ID : 630680214925

Option 1 ID : 630680833726

Option 2 ID : 630680833723

Option 3 ID : 630680833725

Option 4 ID : 630680833724

Status : Answered

Chosen Option : 2

Q.60 Among the following, which has the lowest value of dielectric constant?

Ans 1. Porcelain
 2. Soft rubber
 3. Dry air
 4. Nylon

Question ID : 630680214843

Option 1 ID : 630680833398

Option 2 ID : 630680833395

Option 3 ID : 630680833397

Option 4 ID : 630680833396

Status : Answered

Chosen Option : 3

Q.61 A two-wattmeter method is used to measure 3-phase power. If the reading of one wattmeter is half of the other, the phase angle will be _____.

Ans 1. 0°
 2. 45°
 3. 90°
 4. 30°

Question ID : 630680214868

Option 1 ID : 630680833495

Option 2 ID : 630680833497

Option 3 ID : 630680833498

Option 4 ID : 630680833496

Status : Answered

Chosen Option : 2

Q.62 What will be the RPM of the generator of wind power if the rotor turns the shaft at 18 RPM and the gear box ratio is 1 : 85?

Ans 1. 1800
 2. 1530
 3. 900
 4. 765

Question ID : 630680214978

Option 1 ID : 630680833938

Option 2 ID : 630680833937

Option 3 ID : 630680833936

Option 4 ID : 630680833935

Status : Answered

Chosen Option : 2

Q.63 State whether the following statements are true or false for solar power.

Statement 1: Solar water pumping systems is a hybrid solar electrical system.

Statement 2: Microcontroller compares the output of the solar power and batteries in the hybrid solar system.

Ans 1. Statement 1 is true, but statement 2 is false.

2. Both the statements are false.

3. Both the statements are true.

4. Statement 2 is true, but statement 1 is false.

Question ID : 630680214977

Option 1 ID : 630680833933

Option 2 ID : 630680833932

Option 3 ID : 630680833931

Option 4 ID : 630680833934

Status : Answered

Chosen Option : 4

Q.64 Which of the following is NOT a correct pair of analogous parameters in electric and magnetic circuit?

Ans 1. EMF and MMF

2. Current density and Flux density

3. Current and Flux

4. Resistance and Permeance

Question ID : 630680214829

Option 1 ID : 630680833339

Option 2 ID : 630680833342

Option 3 ID : 630680833340

Option 4 ID : 630680833341

Status : Answered

Chosen Option : 4

Q.65 A transformer has 3% resistance and 5% reactance. Find the voltage regulation at full load at 0.8 lagging power factor.

Ans 1. 4.8%

2. 2.4%

3. 2.7%

4. 5.4%

Question ID : 630680214859

Option 1 ID : 630680833459

Option 2 ID : 630680833462

Option 3 ID : 630680833461

Option 4 ID : 630680833460

Status : Answered

Chosen Option : 3

Q.66 Which of the following is a source of renewable energy?

Ans ✗ 1. Petroleum

✓ 2. Biogas

✗ 3. Uranium

✗ 4. Coal

Question ID : 630680214973

Option 1 ID : 630680833916

Option 2 ID : 630680833918

Option 3 ID : 630680833915

Option 4 ID : 630680833917

Status : Answered

Chosen Option : 2

Q.67 Which of the following acts will NOT help in controlling global warming?

Ans ✗ 1. Reducing the use of fossil fuels

✓ 2. Burning of human generated waste

✗ 3. Increasing tree plantation

✗ 4. Using energy efficient lights

Question ID : 630680214850

Option 1 ID : 630680833424

Option 2 ID : 630680833425

Option 3 ID : 630680833426

Option 4 ID : 630680833423

Status : Answered

Chosen Option : 2

Q.68 What should be the breaking strength of a guard wire as per rule 88 of the Indian Electricity Rules (1956)?

Ans ✓ 1. Not less than 635.02 kg

✗ 2. Not less than 502.03 kg

✗ 3. Not less than 952.03 kg

✗ 4. Not less than 1035.02 kg

Question ID : 630680214938

Option 1 ID : 630680833776

Option 2 ID : 630680833775

Option 3 ID : 630680833777

Option 4 ID : 630680833778

Status : Answered

Chosen Option : 1

Q.69 A power plant has a maximum demand of 120 MW and the sum of individual maximum demands of 5 consumers supplied through the same power plant is 180 MW. Find the diversity factor.

Ans 1. 1.5

2. 0.67

3. 0.3

4. 0.5

Question ID : 630680214882

Option 1 ID : 630680833551

Option 2 ID : 630680833552

Option 3 ID : 630680833554

Option 4 ID : 630680833553

Status : Answered

Chosen Option : 1

Q.70 Which of the following is NOT true for the frequency response analysis of transfer functions?

Ans 1. Applied only to linear systems

2. Time-consuming procedure

3.

Frequency response for the existing system is possible to obtain if the time constant is up to a few minutes

4. Low accuracy

Question ID : 630680214962

Option 1 ID : 630680833871

Option 2 ID : 630680833874

Option 3 ID : 630680833872

Option 4 ID : 630680833873

Status : Answered

Chosen Option : 1

Q.71 The input for a centre-tapped full wave rectifier is given by $v(t) = 200\sin wt$. Find the PIV rating of the diodes used in the circuit.

Ans 1. 100 V

2. 400 V

3. 300 V

4. 200 V

Question ID : 630680214862

Option 1 ID : 630680833474

Option 2 ID : 630680833471

Option 3 ID : 630680833472

Option 4 ID : 630680833473

Status : Answered

Chosen Option : 2

Q.72 A coil is said to have a self-inductance of 10 H if an EMF of 1 volt is induced in it when the current flowing through it changes at the rate of _____.

Ans 1. 1 A/min
 2. 100 mA/second
 3. 1 mA/Second
 4. 10 mA/Second

Question ID : 630680214896

Option 1 ID : 630680833610

Option 2 ID : 630680833607

Option 3 ID : 630680833609

Option 4 ID : 630680833608

Status : Answered

Chosen Option : 2

Q.73 Laplace transform of Dirac delta function $x(t) = x_i \delta(t-\alpha)$ is:

Ans 1. $x(s) = x_i e^{-\alpha/s}$
 2. $x(s) = x_i e^{-s/\alpha}$
 3. $x(s) = x_i e^{-\alpha s}$
 4. $x(s) = x_i e^{\alpha s}$

Question ID : 630680214960

Option 1 ID : 630680833865

Option 2 ID : 630680833866

Option 3 ID : 630680833863

Option 4 ID : 630680833864

Status : Not Answered

Chosen Option : --

Q.74 If two identical inductors are magnetically coupled, the mutual inductance is 16 mH and the coefficient of coupling is 0.4. Find the self-inductance of the identical inductors.

Ans 1. 20 mH
 2. 40 mH
 3. 16 mH
 4. 10 mH

Question ID : 630680214895

Option 1 ID : 630680833605

Option 2 ID : 630680833606

Option 3 ID : 630680833604

Option 4 ID : 630680833603

Status : Answered

Chosen Option : 2

Q.75 Negative boosters are employed to conform to the regulation that the potential difference between any two points of the rail return shall NOT exceed:

Ans 1. 7 V

2. 5 V

3. 15 V

4. 10 V

Question ID : 630680214927

Option 1 ID : 630680833732

Option 2 ID : 630680833731

Option 3 ID : 630680833734

Option 4 ID : 630680833733

Status : Answered

Chosen Option : 1

Q.76 The deflecting torque of an ammeter is directly proportional to the current passing through it, and the instrument has full scale deflection of 60° for a current of 8 A. What deflection will occur for a current of 4 A when the instrument is spring-controlled?

Ans 1. 45°

2. 30°

3. 60°

4. 15°

Question ID : 630680214867

Option 1 ID : 630680833492

Option 2 ID : 630680833491

Option 3 ID : 630680833493

Option 4 ID : 630680833494

Status : Answered

Chosen Option : 2

Q.77 Silver is NOT used very frequently over other conductors because:

Ans 1. it corrodes easily

2. it has high resistivity

3. it has low conductivity

4. it has high specific gravity

Question ID : 630680214839

Option 1 ID : 630680833382

Option 2 ID : 630680833379

Option 3 ID : 630680833381

Option 4 ID : 630680833380

Status : Answered

Chosen Option : 1

Q.78 Purification of the transformer oil in substation may proceed while the transformer is in service on:

Ans 1. light load
 2. full load
 3. twice the full load
 4. 1.5 times the full load

Question ID : 630680214967

Option 1 ID : 630680833891

Option 2 ID : 630680833892

Option 3 ID : 630680833894

Option 4 ID : 630680833893

Status : Answered

Chosen Option : 1

Q.79 The chance of appearance of a phase-to-phase fault in the power system is:

Ans 1. 2% to 3%
 2. 3% to 5%
 3. 15%
 4. 10%

Question ID : 630680214949

Option 1 ID : 630680833819

Option 2 ID : 630680833820

Option 3 ID : 630680833822

Option 4 ID : 630680833821

Status : Answered

Chosen Option : 2

Q.80 The thyristors of the three-phase full converter are triggered at an interval of:

Ans 1. $\frac{\pi}{2}$
 2. $\frac{\pi}{3}$
 3. $\frac{\pi}{6}$
 4. $\frac{\pi}{4}$

Question ID : 630680214930

Option 1 ID : 630680833746

Option 2 ID : 630680833745

Option 3 ID : 630680833743

Option 4 ID : 630680833744

Status : Answered

Chosen Option : 3

Q.81 The starting torque developed by the capacitor start motor is _____ times the full load torque developed by an equally rated resistance-start motor.

Ans 1. 10 to 15

2. 3 to 4.5

3. 6 to 8

4. 1.5 to 2

Question ID : 630680214886

Option 1 ID : 630680833569

Option 2 ID : 630680833567

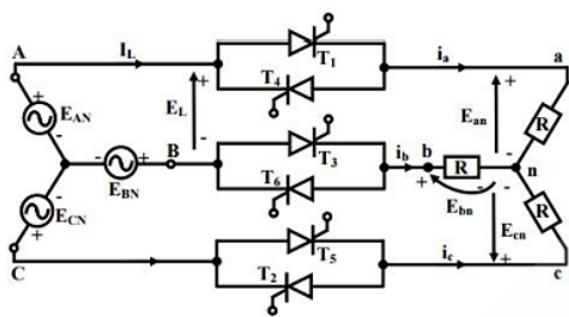
Option 3 ID : 630680833570

Option 4 ID : 630680833568

Status : **Answered**

Chosen Option : 2

Q.82



The angle between the triggering of thyristors 1 and 2 of the three-phase, three-wire AC regulator is:

Ans 1. 120°

2. 60°

3. 180°

4. 30°

Question ID : 630680214931

Option 1 ID : 630680833749

Option 2 ID : 630680833748

Option 3 ID : 630680833750

Option 4 ID : 630680833747

Status : **Not Answered**

Chosen Option : --

Q.83 Which of the following pipes is preferred for surface conduit wiring in industrial electrification for power circuit?

Ans 1. Fibre pipe

2. PVC pipe

3. Galvanised pipe

4. Cast iron pipe

Question ID : 630680214943

Option 1 ID : 630680833798

Option 2 ID : 630680833797

Option 3 ID : 630680833796

Option 4 ID : 630680833795

Status : Answered

Chosen Option : 2

Q.84 A body of ocean water that is partly enclosed by natural manmade barrier is known as:

Ans 1. tidal estuary

2. tidal lagoons

3. tidal stanford

4. tidal barrage

Question ID : 630680214982

Option 1 ID : 630680833952

Option 2 ID : 630680833953

Option 3 ID : 630680833954

Option 4 ID : 630680833951

Status : Not Answered

Chosen Option : --

Q.85 The ratio of the actual quantity of substance liberated or deposited to the theoretical quantity as per Faraday's law is:

Ans 1. current efficiency

2. energy efficiency

3. voltage efficiency

4. power efficiency

Question ID : 630680214918

Option 1 ID : 630680833695

Option 2 ID : 630680833696

Option 3 ID : 630680833698

Option 4 ID : 630680833697

Status : Answered

Chosen Option : 3

Q.86 Find the rectifier efficiency of a half-wave rectifier if the output power is 60 W for an input power of 150 W.

Ans 1. 60 %
 2. 50 %
 3. 30 %
 4. 40 %

Question ID : 630680214901

Option 1 ID : 630680833630

Option 2 ID : 630680833629

Option 3 ID : 630680833627

Option 4 ID : 630680833628

Status : Answered

Chosen Option : 4

Q.87 The maximum characters that can be represented by the ASCII (American Standard Code for Information Interchange) is:

Ans 1. 16
 2. 128
 3. 64
 4. 32

Question ID : 630680214910

Option 1 ID : 630680833663

Option 2 ID : 630680833666

Option 3 ID : 630680833665

Option 4 ID : 630680833664

Status : Not Answered

Chosen Option : --

Q.88 A two-port network represented with Z parameters is said to be symmetrical, if _____.

Ans 1. $Z_{12} = Z_{11}$
 2. $Z_{12} = Z_{21}$
 3. $Z_{22} = Z_{21}$
 4. $Z_{11} = Z_{22}$

Question ID : 630680214834

Option 1 ID : 630680833361

Option 2 ID : 630680833359

Option 3 ID : 630680833360

Option 4 ID : 630680833362

Status : Answered

Chosen Option : 4

Q.89 Which of the following is an example of non-renewable energy?

Ans 1. Geothermal energy
 2. Nuclear energy
 3. Wind energy
 4. Solar energy

Question ID : 630680214847

Option 1 ID : 630680833414

Option 2 ID : 630680833413

Option 3 ID : 630680833411

Option 4 ID : 630680833412

Status : Answered

Chosen Option : 3

Q.90 In pure silicon, if _____ is added as the impurity, P-type semiconductor is formed and if _____ is added as the impurity, N-type semiconductor is formed, respectively.

Ans 1. arsenic; bismuth
 2. aluminium; indium
 3. boron; antimony
 4. bismuth; boron

Question ID : 630680214841

Option 1 ID : 630680833388

Option 2 ID : 630680833390

Option 3 ID : 630680833387

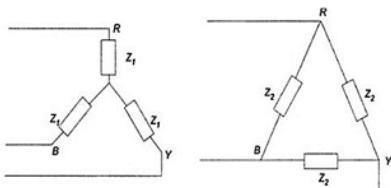
Option 4 ID : 630680833389

Status : Answered

Chosen Option : 3



Q.91 If the star and delta configurations shown in the following figure are equivalent, then _____.



Ans

- 1. $Z_2 = 3Z_1$
- 2. $Z_2 = Z_1$
- 3. $Z_2 = \sqrt{3}Z_1$
- 4. $Z_2 = \sqrt{2}Z_1$

Question ID : 630680214836

Option 1 ID : 630680833368

Option 2 ID : 630680833367

Option 3 ID : 630680833369

Option 4 ID : 630680833370

Status : Answered

Chosen Option : 1

Q.92 If one part of the universe loses energy, then:

Ans

- 1. slowly the total energy of the universe reduces to zero
- 2. the energy gets doubled
- 3. the energy will be lost forever
- 4. another part will gain an equal amount of energy

Question ID : 630680214827

Option 1 ID : 630680833333

Option 2 ID : 630680833332

Option 3 ID : 630680833331

Option 4 ID : 630680833334

Status : Not Answered

Chosen Option : --



Q.93 State whether the following statements are true or false for three-phase inverters in 120° conduction mode.

Statement 1: It is preferable for a star connected load because it provides a six-step waveform across any phase.

Statement 2: As each device conducts for 120° , only three devices are in the conduction state at any instant.

Ans 1. Both the statements are true.

2. Statement 1 is true, but statement 2 is false.

3. Both the statements are false.

4. Statement 2 is true, but statement 1 is false.

Question ID : 630680214933

Option 1 ID : 630680833755

Option 2 ID : 630680833757

Option 3 ID : 630680833756

Option 4 ID : 630680833758

Status : Not Answered

Chosen Option : --

Q.94 Which of the following statements is NOT true for Fourier's law for heat conduction?

Ans 1.

It helps to define the thermal conductivity of the medium through which heat is conducted.

2.

It is a scalar expression, indicating that heat flows in a random direction.

3.

It is based on experimental evidence and cannot be derived from the first principle.

4. It is applicable to solid, liquid and gas.

Question ID : 630680214920

Option 1 ID : 630680833703

Option 2 ID : 630680833705

Option 3 ID : 630680833706

Option 4 ID : 630680833704

Status : Not Answered

Chosen Option : --

Q.95 The best insurance against the rusting of steel structures and fittings is to _____ them.

Ans 1. galvanise

2. paint

3. grease

4. oil

Question ID : 630680214972

Option 1 ID : 630680833912

Option 2 ID : 630680833913

Option 3 ID : 630680833911

Option 4 ID : 630680833914

Status : Answered

Chosen Option : 2

Q.96 Which of the following drive systems is essential for complicated metal-cutting machine tools and paper-making machines?

Ans 1. Group drive

2. Supernova drive

3. Individual drive

4. Multi-motor drive

Question ID : 630680214926

Option 1 ID : 630680833728

Option 2 ID : 630680833730

Option 3 ID : 630680833727

Option 4 ID : 630680833729

Status : Not Answered

Chosen Option : --

Q.97 The basic non-isolated Cuk converter is an SMPS with:

Ans 1.

two inductors, two capacitors, one diode and one transistor switch

2.

two inductors, two capacitors, two diodes and two transistor switches

3.

one inductor, one capacitor, two diodes and two transistor switches

4.

one inductor, one capacitor, one diode and one transistor switch

Question ID : 630680214932

Option 1 ID : 630680833752

Option 2 ID : 630680833753

Option 3 ID : 630680833754

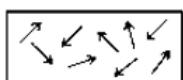
Option 4 ID : 630680833751

Status : Not Answered

Chosen Option : --



Q.98 The dipole moment of _____ material can be represented by the following diagram.



Ans 1. ferromagnetic

2. anti-ferromagnetic

3. ferrimagnetic

4. paramagnetic

Question ID : 630680214844

Option 1 ID : 630680833400

Option 2 ID : 630680833401

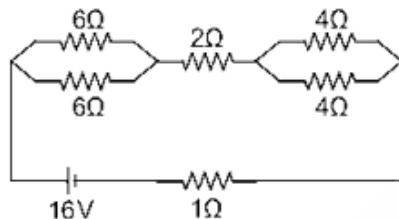
Option 3 ID : 630680833402

Option 4 ID : 630680833399

Status : Answered

Chosen Option : 2

Q.99 Find the current in the following circuit.



Ans 1. 2 A

2. 4 A

3. 3 A

4. 1 A



Question ID : 630680214831

Option 1 ID : 630680833348

Option 2 ID : 630680833350

Option 3 ID : 630680833349

Option 4 ID : 630680833347

Status : Answered

Chosen Option : 1

Q.100 A 220 V separately excited DC generator has core losses of 200 W when supplying a load current of 20 A. Find the value of armature resistance if the machine is operated with maximum efficiency.

Ans 1. 1.5 Ω
 2. 2.0 Ω
 3. 0.5 Ω
 4. 0.25 Ω

Question ID : 630680214855

Option 1 ID : 630680833444

Option 2 ID : 630680833443

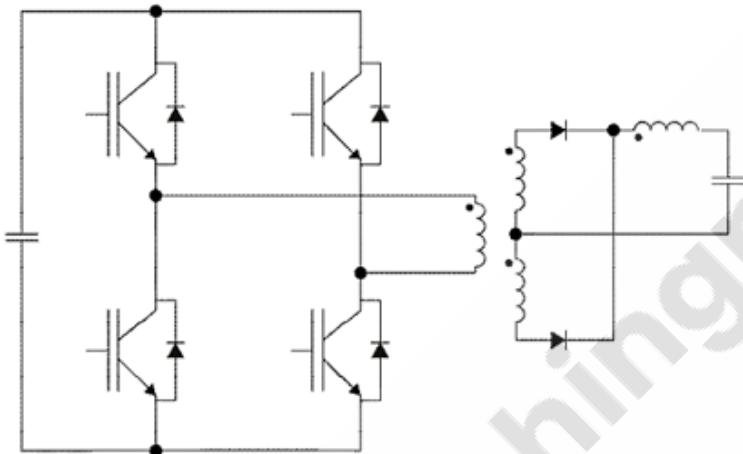
Option 3 ID : 630680833445

Option 4 ID : 630680833446

Status : Not Answered

Chosen Option : --

Q.101



Identify the circuit shown in the above figure.

Ans 1. Switched mode power supply
 2. Static AC circuit breaker
 3. Solid state relay
 4. Uninterrupted power supply system

Question ID : 630680214935

Option 1 ID : 630680833763

Option 2 ID : 630680833765

Option 3 ID : 630680833766

Option 4 ID : 630680833764

Status : Not Answered

Chosen Option : --

Q.102 In a short-shunt DC motor, the supply current will be equal to:

Ans 1. the sum of the armature and the shunt field current
 2. the shunt field current
 3. the armature current
 4. the average of the armature and the shunt field current

Question ID : 630680214856

Option 1 ID : 630680833447

Option 2 ID : 630680833449

Option 3 ID : 630680833448

Option 4 ID : 630680833450

Status : Answered

Chosen Option : 1

Q.103 State whether the following statements are true or false for isolator.

Statement 1: An isolator is a switch intend for isolating a circuit on no-load.

Statement 2: It can be used for breaking a circuit carrying appreciable currents.

Ans 1. Both the statements are true.
 2. Both the statements are false.
 3. Statement 1 is true, but statement 2 is false.
 4. Statement 2 is true, but statement 1 is false.

Question ID : 630680214966

Option 1 ID : 630680833887

Option 2 ID : 630680833888

Option 3 ID : 630680833889

Option 4 ID : 630680833890

Status : Answered

Chosen Option : 4

Q.104 Which of the following instruments is used to convert the displacement into an electrical signal?

Ans 1. LVDT
 2. RTD
 3. Thermocouple
 4. Thermistor

Question ID : 630680214865

Option 1 ID : 630680833483

Option 2 ID : 630680833484

Option 3 ID : 630680833485

Option 4 ID : 630680833486

Status : Not Answered

Chosen Option : --

Q.105 The planned use of resources in order to meet present needs and to store a part for future generations is called:

Ans 1. resource calculation
 2. resource optimisation
 3. resource conservation
 4. resource consumption

Question ID : 630680214849

Option 1 ID : 630680833422

Option 2 ID : 630680833421

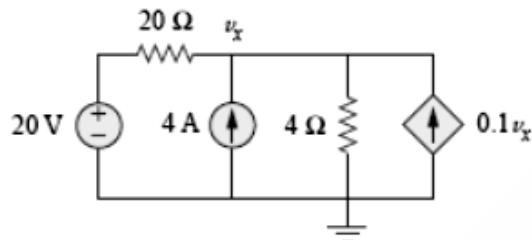
Option 3 ID : 630680833419

Option 4 ID : 630680833420

Status : Not Answered

Chosen Option : --

Q.106 Using superposition theorem, find ' v_x ' in the following circuit.



Ans 1. 25 V
 2. 15 V
 3. 30 V
 4. 20 V

Question ID : 630680214897

Option 1 ID : 630680833611

Option 2 ID : 630680833614

Option 3 ID : 630680833613

Option 4 ID : 630680833612

Status : Not Answered

Chosen Option : --



Q.107 If the average value of a sine wave is 100 V, then the RMS value is _____.

Ans 1. 100 V
 2. 111 V
 3. 90 V
 4. 50 V

Question ID : 630680214825

Option 1 ID : 630680833324

Option 2 ID : 630680833325

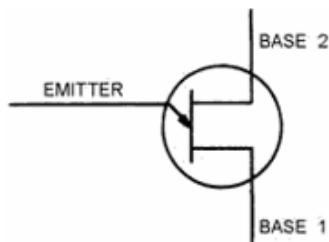
Option 3 ID : 630680833323

Option 4 ID : 630680833326

Status : Not Answered

Chosen Option : --

Q.108 Identify the device represented by the following symbol.



Ans 1. JFET
 2. UJT
 3. BJT
 4. SCR

Question ID : 630680214864

Option 1 ID : 630680833482

Option 2 ID : 630680833481

Option 3 ID : 630680833480

Option 4 ID : 630680833479

Status : Answered

Chosen Option : 4



Q.109 Joule/Coulomb is the unit of _____.

Ans 1. Electric charge

2. Electric power

3. Electric potential

4. Electric current

Question ID : 630680214824

Option 1 ID : 630680833320

Option 2 ID : 630680833322

Option 3 ID : 630680833319

Option 4 ID : 630680833321

Status : Answered

Chosen Option : 1

Q.110 In an auto-transformer, if the transformation ratio is 2, then the saving in the conductor material is _____ as compared to 2-winding transformer.

Ans 1. 75%

2. 50%

3. 90%

4. 25%

Question ID : 630680214860

Option 1 ID : 630680833465

Option 2 ID : 630680833464

Option 3 ID : 630680833466

Option 4 ID : 630680833463

Status : Not Answered

Chosen Option : --

Q.111 With the addition of tertiary winding, the Y-Y connection becomes _____ connection.

Ans 1. Y-Y-Δ

2. Δ-Y-Δ

3. Δ-Y-Y

4. Y-Δ-Y

Question ID : 630680214891

Option 1 ID : 630680833587

Option 2 ID : 630680833590

Option 3 ID : 630680833588

Option 4 ID : 630680833589

Status : Not Answered

Chosen Option : --

Q.112 What is the condition of symmetry in terms of h-parameters for a two-port network?

Ans

- 1. $h_{11}h_{22} + h_{12}h_{21} = 0$
- 2. $h_{11}h_{22} - h_{12}h_{21} = 1$
- 3. $h_{11}h_{22} + h_{12}h_{21} = 1$
- 4. $h_{11}h_{22} = h_{12}h_{21}$

Question ID : 630680214898

Option 1 ID : 630680833618

Option 2 ID : 630680833617

Option 3 ID : 630680833615

Option 4 ID : 630680833616

Status : Answered

Chosen Option : 4

Q.113 State whether the following statements are true or false for braking systems in DC shunt motors.

Statement 1: Plugging braking is used for machine tools and elevators.

Statement 2: Plugging gives better braking torque comparing with the rheostatic braking.

Ans

- 1. Both the statements are false.
- 2. Both the statements are true.
- 3. Statement 2 is true but statement 1 is false.
- 4. Statement 1 is true but statement 2 is false.

Question ID : 630680214928

Option 1 ID : 630680833736

Option 2 ID : 630680833735

Option 3 ID : 630680833738

Option 4 ID : 630680833737

Status : Answered

Chosen Option : 3

Q.114 Which of the following statements is NOT true for the arc blow experienced in arc welding?

Ans

- 1. Arc blow may cause excessive weld spatter.
- 2. Arc blow is encountered only in an AC welding set.
- 3. Arc blow is experienced the most when the applied current is above 200 A or below 40 A.
- 4. Due to arc blow, heat penetration in the required area is low, which leads to incomplete fusion.

Question ID : 630680214922

Option 1 ID : 630680833714

Option 2 ID : 630680833711

Option 3 ID : 630680833712

Option 4 ID : 630680833713

Status : Not Answered

Chosen Option : --

Q.115 While calculating the voltage regulation of a transformer, if the power factor is not specified, its value is to be assumed as _____.

Ans 1. 0.9
 2. unity
 3. zero
 4. 0.5

Question ID : 630680214858

Option 1 ID : 630680833457

Option 2 ID : 630680833458

Option 3 ID : 630680833455

Option 4 ID : 630680833456

Status : Answered

Chosen Option : 2

Q.116 Which of the following is NOT true for Air Blast Circuit Breaker?

Ans 1. Elimination of fire hazard
 2. Requirement of higher-level maintenance
 3. Suitability for frequent operation
 4. High-speed operation

Question ID : 630680214951

Option 1 ID : 630680833830

Option 2 ID : 630680833829

Option 3 ID : 630680833828

Option 4 ID : 630680833827

Status : Answered

Chosen Option : 2

Q.117 Which of the following is true for joint box types of electrical wiring?

Ans 1. Skilled labours are not required.
 2. Always gives a good look
 3. Cost of wiring is saved.
 4. Fault location is easy.

Question ID : 630680214944

Option 1 ID : 630680833801

Option 2 ID : 630680833802

Option 3 ID : 630680833799

Option 4 ID : 630680833800

Status : Answered

Chosen Option : 4

Q.118 Which of the following is NOT true for static relays?

Ans 1. The risk of unwanted tripping is high with static relays.

2.

Static relay is a combination of both static and electromagnetic relays.

3.

In static relay, the measurement is performed by electronic, magnetic, optical or another component without mechanical motion.

4. In static relay, there is no armature and moving contacts.

Question ID : 630680214956

Option 1 ID : 630680833850

Option 2 ID : 630680833847

Option 3 ID : 630680833849

Option 4 ID : 630680833848

Status : Answered

Chosen Option : 4

Q.119 The economic limit of the breaking capacity of circuit breakers installed at substations at 33 kV is:

Ans 1. 750 MVA

2. 1500 MVA

3. 150 MVA

4. 75 MVA

Question ID : 630680214969

Option 1 ID : 630680833900

Option 2 ID : 630680833899

Option 3 ID : 630680833901

Option 4 ID : 630680833902

Status : Answered

Chosen Option : 4

Q.120 An op-amp has a voltage gain of 200000. If the output voltage is 1 V, the input voltage will be:

Ans 1. 2 millivolts

2. 2 microvolts

3. 5 millivolts

4. 5 microvolts

Question ID : 630680214902

Option 1 ID : 630680833634

Option 2 ID : 630680833632

Option 3 ID : 630680833633

Option 4 ID : 630680833631

Status : Answered

Chosen Option : 2

Q.121 Which of the following is NOT the property of the draw-in system for laying of underground cables?

Ans 1. The maintenance cost is high.
 2. The cables are not armoured.
 3. The initial cost is very high.
 4. Less chances of fault occurrence.

Question ID : 630680214881

Option 1 ID : 630680833548

Option 2 ID : 630680833547

Option 3 ID : 630680833549

Option 4 ID : 630680833550

Status : Answered

Chosen Option : 2

Q.122 A short transmission line has impedance value of 25Ω . Find the ABCD parameters of the transmission line.

Ans 1. $A = 1, B = 25, C = 0, D = -1$
 2. $A = 1, B = 0, C = 25, D = 1$
 3. $A = 1, B = 25, C = 0, D = 1$
 4. $A = 25, B = 1, C = 0, D = 25$

Question ID : 630680214878

Option 1 ID : 630680833535

Option 2 ID : 630680833536

Option 3 ID : 630680833538

Option 4 ID : 630680833537

Status : Answered

Chosen Option : 2

Q.123 Which of the following qualities is missing in a PVC cable as the insulating material for an underground cable?

Ans 1. Excellent elasticity
 2. High insulation resistance
 3. Good dielectric strength
 4. Inertness to oxygen

Question ID : 630680214880

Option 1 ID : 630680833544

Option 2 ID : 630680833543

Option 3 ID : 630680833545

Option 4 ID : 630680833546

Status : Answered

Chosen Option : 4

Q.124 The 3 R's principle is the new concept in waste management. What do the 3 R's stand for?

Ans 1. Reduce, Reuse, Recycle

2. Revenge, Reframe, Recharge

3. Reroute, Redefine, Rework

4. Revert, Reframe, Return

Question ID : 630680214853

Option 1 ID : 630680833436

Option 2 ID : 630680833437

Option 3 ID : 630680833438

Option 4 ID : 630680833435

Status : **Answered**

Chosen Option : 1

Q.125 The step angle for a stepper motor is 2° . If the stepping frequency is 3600 pulses per second, then the shaft speed is:

Ans 1. 200 rps

2. 3600 rps

3. 1800 rps

4. 20 rps

Question ID : 630680214890

Option 1 ID : 630680833585

Option 2 ID : 630680833583

Option 3 ID : 630680833584

Option 4 ID : 630680833586

Status : **Answered**

Chosen Option : 3

Q.126 Which of the following materials is an example of paramagnetic material?

Ans 1. Platinum

2. Iron

3. Nickel

4. Cobalt

Question ID : 630680214845

Option 1 ID : 630680833404

Option 2 ID : 630680833405

Option 3 ID : 630680833406

Option 4 ID : 630680833403

Status : **Answered**

Chosen Option : 2

Q.127 What are the power supplies needed for the I/O module of PLC?

Ans 1. +50 V and -50 V
 2. 12 V AC or 24 V AC or 10 V DC
 3. 120 V AC or 220 V AC or 24 V DC
 4. +5 V and -5 V

Question ID : 630680214936

Option 1 ID : 630680833768

Option 2 ID : 630680833769

Option 3 ID : 630680833770

Option 4 ID : 630680833767

Status : Answered

Chosen Option : 3

Q.128 _____ is a digital transducer used for measurement of angular displacement and velocity.

Ans 1. Shaft encoder
 2. Odometer
 3. Pyrometer
 4. Bolometer

Question ID : 630680214870

Option 1 ID : 630680833503

Option 2 ID : 630680833504

Option 3 ID : 630680833505

Option 4 ID : 630680833505

Status : Not Answered

Chosen Option : --

Q.129 The propagation delay per flip-flop in an eight-flip-flop ripple counter is of the order of 10 ns. Calculate the maximum clock frequency.

Ans 1. 2.75 MHz
 2. 12.5 MHz
 3. 17.75 MHz
 4. 5.5 MHz

Question ID : 630680214913

Option 1 ID : 630680833675

Option 2 ID : 630680833677

Option 3 ID : 630680833678

Option 4 ID : 630680833676

Status : Not Answered

Chosen Option : --

Q.130 Which of the following is NOT a resistive transducer?

Ans 1. Strain gauge
 2. Thermocouple
 3. Thermistor
 4. RTD

Question ID : 630680214873

Option 1 ID : 630680833517

Option 2 ID : 630680833518

Option 3 ID : 630680833516

Option 4 ID : 630680833515

Status : Not Answered

Chosen Option : --

Q.131 Which of the following resources has finite supply and it is NOT considered sustainable?

Ans 1. Wind
 2. Sun
 3. Water
 4. Crude oil

Question ID : 630680214899

Option 1 ID : 630680833619

Option 2 ID : 630680833620

Option 3 ID : 630680833621

Option 4 ID : 630680833622

Status : Answered

Chosen Option : 4

Q.132 Which of the following is NOT a valid advantage of renewable source of energy?

Ans 1. Unlimited resources
 2. Less pollution
 3. Very high efficiency
 4. Low emission of carbon dioxide

Question ID : 630680214848

Option 1 ID : 630680833417

Option 2 ID : 630680833415

Option 3 ID : 630680833416

Option 4 ID : 630680833418

Status : Answered

Chosen Option : 3

Q.133 The method of improving commutation with the help of interpoles is called _____.

Ans

- 1. voltage commutation
- 2. phase commutation
- 3. current commutation
- 4. frequency commutation

Question ID : 630680214889

Option 1 ID : 630680833580

Option 2 ID : 630680833582

Option 3 ID : 630680833579

Option 4 ID : 630680833581

Status : **Answered**

Chosen Option : 1

Q.134 OTEC stands for _____.

Ans

- 1. Ocean Tidal Electricity Creation
- 2. Ocean Thermal Energy Conversion
- 3. Offshore Thermal Electricity Conversion
- 4. Ocean Tidal Energy Creation

Question ID : 630680214875

Option 1 ID : 630680833526

Option 2 ID : 630680833524

Option 3 ID : 630680833525

Option 4 ID : 630680833523

Status : **Not Answered**

Chosen Option : --

Q.135 For a peak current of 40 kA, the voltage of the pulse due to lightning strike can be as high as:

Ans

- 1. 4000 kV
- 2. 6000 kV
- 3. 1000 kV
- 4. 2000 kV

Question ID : 630680214954

Option 1 ID : 630680833841

Option 2 ID : 630680833842

Option 3 ID : 630680833839

Option 4 ID : 630680833840

Status : **Answered**

Chosen Option : 2

Q.136 Liquid type fuses are filled with:

Ans 1. carbon dioxide
 2. titanium oxide
 3. titanium tetrachloride
 4. carbon tetrachloride

Question ID : 630680214950

Option 1 ID : 630680833824

Option 2 ID : 630680833826

Option 3 ID : 630680833825

Option 4 ID : 630680833823

Status : Answered

Chosen Option : 3

Q.137 As per rule 55 of the Indian Electricity Rules (1956), a supplier shall NOT permit the frequency of an alternating current supply to vary from the declared frequency by more than:

Ans 1. 7%
 2. 5%
 3. 12.5%
 4. 3%

Question ID : 630680214937

Option 1 ID : 630680833773

Option 2 ID : 630680833772

Option 3 ID : 630680833774

Option 4 ID : 630680833771

Status : Answered

Chosen Option : 4

Q.138 On a carbon film resistor colour code is:

Blue, Gray, Brown and Gold.

Calculate the value of the resistance.

Ans 1. 680Ω , 5% tolerance
 2. 68Ω , 5% tolerance
 3. 560Ω , 5% tolerance
 4. 56Ω , 5% tolerance

Question ID : 630680214871

Option 1 ID : 630680833508

Option 2 ID : 630680833509

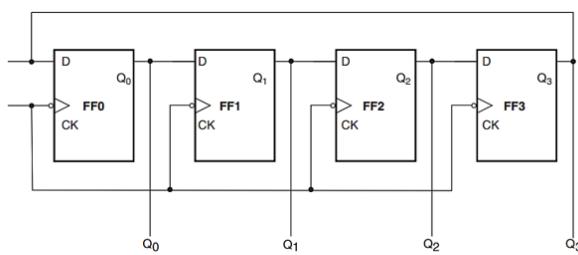
Option 3 ID : 630680833507

Option 4 ID : 630680833510

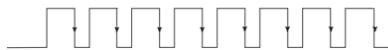
Status : Answered

Chosen Option : 1

Q.139



Find the output Q_3 in the given counter when the clock is as given below (assume that the flip-flop FF0 is initially set to the logic '1' state and all other flip-flops are reset to the logic '0' state).



Ans

1.

2.

3.

4.

Question ID : 630680214914

Option 1 ID : 630680833679

Option 2 ID : 630680833681

Option 3 ID : 630680833682

Option 4 ID : 630680833680

Status : Not Answered

Chosen Option : --

Q.140 The process of _____ uses powdered limestone to neutralise the acidity of soil affected by acid rain.

Ans 1. dripping

2. scaling

3. liming

4. poring

Question ID : 630680214852

Option 1 ID : 630680833431

Option 2 ID : 630680833434

Option 3 ID : 630680833433

Option 4 ID : 630680833432

Status : Not Answered

Chosen Option : --

Q.141 Which of the following is a special characteristic of the tunnel diode?

Ans 1. Negative resistance

2. Coherent light

3. Four layers

4. Voltage controlled capacitance

Question ID : **630680214900**

Option 1 ID : **630680833626**

Option 2 ID : **630680833624**

Option 3 ID : **630680833625**

Option 4 ID : **630680833623**

Status : **Answered**

Chosen Option : **4**

Q.142 Among the following insulating materials, which material can withstand the highest temperature?

Ans 1. Silk

2. Paper

3. Cotton

4. Quartz

Question ID : **630680214842**

Option 1 ID : **630680833392**

Option 2 ID : **630680833393**

Option 3 ID : **630680833391**

Option 4 ID : **630680833394**

Status : **Answered**

Chosen Option : **4**

Q.143 Which of the following components of wind power is used to rotate the nacelle to move in the direction of wind to extract the maximum energy from wind?

Ans 1. Anemometer

2. Wind vane

3. Yaw drive

4. Pitch drive

Question ID : **630680214979**

Option 1 ID : **630680833939**

Option 2 ID : **630680833941**

Option 3 ID : **630680833942**

Option 4 ID : **630680833940**

Status : **Not Answered**

Chosen Option : **--**

Q.144 Convert the binary number $(1011)_2$ into Gray code.

Ans 1. 1101
 2. 1001
 3. 0110
 4. 1110

Question ID : 630680214909

Option 1 ID : 630680833660

Option 2 ID : 630680833661

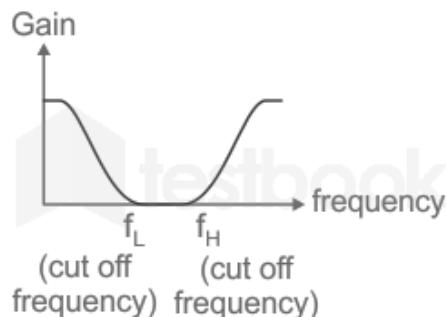
Option 3 ID : 630680833662

Option 4 ID : 630680833659

Status : Not Answered

Chosen Option : --

Q.145 Which filter exhibits the characteristics shown below?



Ans 1. Low pass
 2. Band pass
 3. High pass
 4. Band reject

Question ID : 630680214837

Option 1 ID : 630680833372

Option 2 ID : 630680833373

Option 3 ID : 630680833371

Option 4 ID : 630680833374

Status : Not Answered

Chosen Option : --

Q.146 In a series RLC circuit, $R = 50 \Omega$ and inductive reactance $X_L = 20 \Omega$. Find the capacitive reactance X_C at resonance.

Ans 1. 50Ω
 2. 30Ω
 3. 20Ω
 4. 70Ω

Question ID : 630680214832

Option 1 ID : 630680833352

Option 2 ID : 630680833353

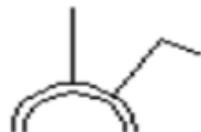
Option 3 ID : 630680833354

Option 4 ID : 630680833351

Status : Answered

Chosen Option : 4

Q.147



The above symbol represents:

Ans 1. socket outlet 5 A
 2. socket outlet 5 A with switch
 3. socket outlet 15 A
 4. socket outlet 15 A with switch

Question ID : 630680214939

Option 1 ID : 630680833779

Option 2 ID : 630680833780

Option 3 ID : 630680833781

Option 4 ID : 630680833782

Status : Answered

Chosen Option : 4

Q.148 A synchronous machine is called a doubly-excited machine because:

Ans 1. it has two sets of rotor poles
 2. it needs twice the normal exciting voltage
 3. it needs twice the normal exciting current
 4. its stator and rotor both are excited

Question ID : 630680214885

Option 1 ID : 630680833565

Option 2 ID : 630680833564

Option 3 ID : 630680833563

Option 4 ID : 630680833566

Status : Answered

Chosen Option : 4

Q.149 The transition temperature of a superconductor is:

Ans 1.

- inversely proportional to the square root of the isotopic mass
- 2. directly proportional to the square root of the isotopic mass
- 3. inversely proportional to the isotopic mass
- 4. directly proportional to the isotopic mass

Question ID : 630680214846

Option 1 ID : 630680833407

Option 2 ID : 630680833408

Option 3 ID : 630680833409

Option 4 ID : 630680833410

Status : Not Answered

Chosen Option : --

Q.150 If there are 20 wiring points, the insulation resistance measured by a 500 V megger should NOT be less than:

Ans 1. 0.5 megohms

- 2. 2 megohms
- 3. 5 megohms
- 4. 2.5 megohms

Question ID : 630680214971

Option 1 ID : 630680833907

Option 2 ID : 630680833908

Option 3 ID : 630680833910

Option 4 ID : 630680833909

Status : Not Answered

Chosen Option : --

Q.151 Which of the following terms is NOT related to a P-N junction diode?

Ans 1. Gate current

- 2. Anode
- 3. Knee voltage
- 4. Cathode

Question ID : 630680214861

Option 1 ID : 630680833470

Option 2 ID : 630680833467

Option 3 ID : 630680833469

Option 4 ID : 630680833468

Status : Answered

Chosen Option : 1

Q.152 Which of the following is NOT one of the essential features of switchgears?

Ans 1. Complete reliability
 2. No discrimination
 3. Provision of manual control
 4. Quick operation

Question ID : 630680214947

Option 1 ID : 630680833811

Option 2 ID : 630680833812

Option 3 ID : 630680833814

Option 4 ID : 630680833813

Status : Answered

Chosen Option : 1

Q.153 What is the thickness of the base of solar cells?

Ans 1. More than 100 mm
 2. More than 100 μm
 3. Less than 1 μm
 4. Less than 1 mm

Question ID : 630680214975

Option 1 ID : 630680833926

Option 2 ID : 630680833925

Option 3 ID : 630680833923

Option 4 ID : 630680833924

Status : Not Answered

Chosen Option : --

Q.154 Which is the best choice of a two-port parameter, when two-ports are connected in parallel-parallel configuration?

Ans 1. Y-Parameters
 2. Z- Parameters
 3. h-Parameters
 4. T-parameters

Question ID : 630680214835

Option 1 ID : 630680833363

Option 2 ID : 630680833364

Option 3 ID : 630680833365

Option 4 ID : 630680833366

Status : Not Answered

Chosen Option : --

Q.155 Which of the following is NOT one of the methods employed in MIG welding?

Ans

- 1. Bare-wire electrode process
- 2. Magnetic flux process
- 3. Dielectric process
- 4. Flux-cored electrode process

Question ID : 630680214923

Option 1 ID : 630680833715

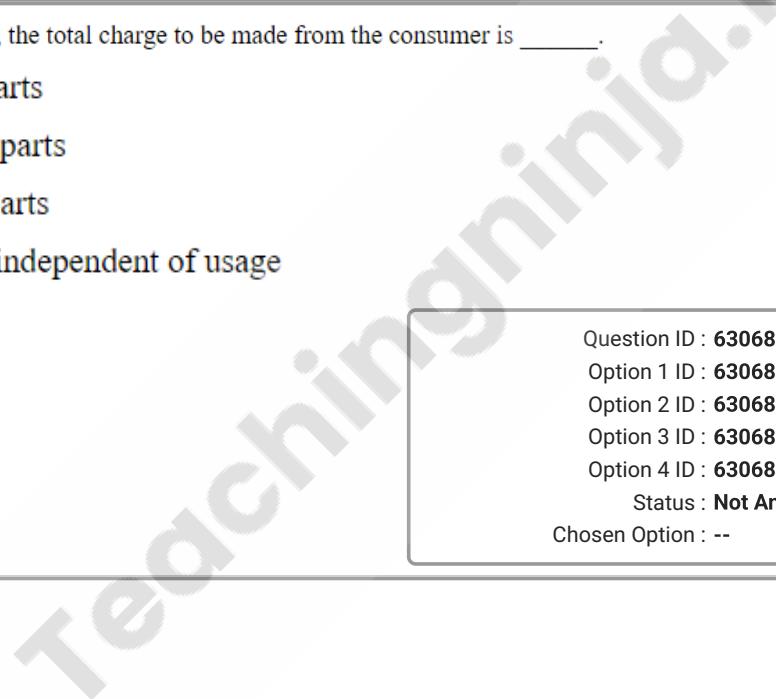
Option 2 ID : 630680833717

Option 3 ID : 630680833718

Option 4 ID : 630680833716

Status : Not Answered

Chosen Option : --

Q.156 In the Doherty rate method, the total charge to be made from the consumer is _____.


Ans

- 1. split into two parts
- 2. split into three parts
- 3. split into four parts
- 4. kept fixed and independent of usage

Question ID : 630680214883

Option 1 ID : 630680833556

Option 2 ID : 630680833557

Option 3 ID : 630680833558

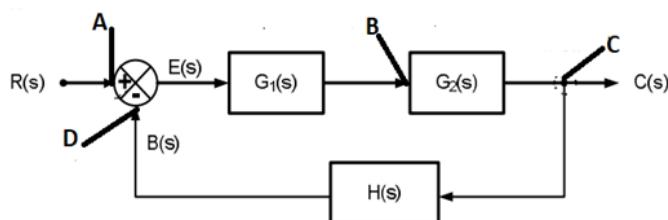
Option 4 ID : 630680833555

Status : Not Answered

Chosen Option : --



Q.157



Which of the following points in the block diagram of the control system is a take off point?

Ans 1. B
 2. A
 3. D
 4. C

Question ID : 630680214958

Option 1 ID : 630680833856

Option 2 ID : 630680833855

Option 3 ID : 630680833858

Option 4 ID : 630680833857

Status : Not Answered

Chosen Option : --

Q.158 A 6-pole, 50-Hz, 3-phase induction motor is running at 950 rpm and has rotor Cu loss of 5 kW. What will be the rotor input?

Ans 1. 105 kW
 2. 100 kW
 3. 125 kW
 4. 95 kW

Question ID : 630680214904

Option 1 ID : 630680833641

Option 2 ID : 630680833640

Option 3 ID : 630680833642

Option 4 ID : 630680833639

Status : Not Answered

Chosen Option : --

Q.159 On the basis of the rotor construction, a 3-phase induction motor can be classified into _____ types.

Ans 1. 5
 2. 2
 3. 3
 4. 4

Question ID : 630680214888

Option 1 ID : 630680833578

Option 2 ID : 630680833575

Option 3 ID : 630680833576

Option 4 ID : 630680833577

Status : Answered

Chosen Option : 2

Q.160 In a transformer, the process of bunching all laminated sheets together is known as _____.

Ans 1. packing
 2. stacking
 3. riveting
 4. framing

Question ID : 630680214857

Option 1 ID : 630680833451

Option 2 ID : 630680833452

Option 3 ID : 630680833454

Option 4 ID : 630680833453

Status : Answered

Chosen Option : 3

Section : Numerical,G.K & Reasoning

Q.1 If a 9-digit number $9524x37y8$ is divisible by 72, then what is the maximum possible value of $(2x + 3y)$?

Ans 1. 22
 2. 18
 3. 16
 4. 20

Question ID : 630680214984

Option 1 ID : 630680833962

Option 2 ID : 630680833960

Option 3 ID : 630680833959

Option 4 ID : 630680833961

Status : Not Answered

Chosen Option : --

Q.2 The total surface area of a solid metallic right circular cylinder is $672 \pi \text{ cm}^2$ and its height is 50 cm. Its volume is equal to 40% of the volume of a sphere. What is the diameter (in cm) of the sphere?

Ans 1. 32
 2. 40
 3. 30
 4. 28

Question ID : 630680214989

Option 1 ID : 630680833981

Option 2 ID : 630680833982

Option 3 ID : 630680833980

Option 4 ID : 630680833979

Status : Not Answered

Chosen Option : --

Q.3 In an election between two candidates, 10% of the total voters did not cast their votes. 15% of the votes polled were found to be invalid. The winning candidate obtained 52% of the valid votes and won by a majority of 3825 votes. The number of valid votes was:

Ans 1. 95625
 2. 91800
 3. 94375
 4. 90600

Question ID : 630680214987

Option 1 ID : 630680833974

Option 2 ID : 630680833972

Option 3 ID : 630680833973

Option 4 ID : 630680833971

Status : Not Answered

Chosen Option : --

Q.4 Priya's expenditure is 125% more than her savings. If her savings increase by 38% and income increases by 20%, then by what per cent does her expenditure increase?

Ans 1. 10%
 2. 18%
 3. 9%
 4. 12%

Question ID : 630680214986

Option 1 ID : 630680833968

Option 2 ID : 630680833970

Option 3 ID : 630680833969

Option 4 ID : 630680833967

Status : Not Answered

Chosen Option : --

Q.5 Let x be a number between 2100 and 2200. When x is divided by 18, 20 and 27, the remainder in each case is 11. What is the sum of digits of x ?

Ans 1. 14
 2. 13
 3. 11
 4. 9



Question ID : 630680214985

Option 1 ID : 630680833966

Option 2 ID : 630680833965

Option 3 ID : 630680833964

Option 4 ID : 630680833963

Status : Not Answered

Chosen Option : --

Q.6 A man sold a table for ₹2,565 at a loss of 10% and a chair for ₹1,610 at a gain of 40%. What is his percentage gain in the entire transaction?

Ans 1. 3.625%

2. 3.75%

3. 4.375%

4. 4.25%

Question ID : 630680214988

Option 1 ID : 630680833975

Option 2 ID : 630680833978

Option 3 ID : 630680833976

Option 4 ID : 630680833977

Status : Not Answered

Chosen Option : --

Q.7 MS Swaminathan is also known as the:

Ans 1. Tiger man of India

2. Bird man of India

3. Father of the Indian Economics

4. Father of the Green Revolution

Question ID : 630680214994

Option 1 ID : 630680834002

Option 2 ID : 630680833999

Option 3 ID : 630680834000

Option 4 ID : 630680834001

Status : Not Answered

Chosen Option : --

Q.8 Which of the following countries will host the 13th edition of the ICC Men's ODI World Cup 2023?

Ans 1. Australia

2. England

3. South Africa

4. India



Question ID : 630680214990

Option 1 ID : 630680833984

Option 2 ID : 630680833985

Option 3 ID : 630680833986

Option 4 ID : 630680833983

Status : Not Answered

Chosen Option : --

Q.9 The chemical formula of Bleaching powder does NOT consist of which of the following elements?

Ans 1. Oxygen
 2. Hydrogen
 3. Chlorine
 4. Calcium

Question ID : 630680214996

Option 1 ID : 630680834009

Option 2 ID : 630680834010

Option 3 ID : 630680834008

Option 4 ID : 630680834007

Status : Not Answered

Chosen Option : --

Q.10 The Economic Survey 2023, prepared by the Department of Economic Affairs (DEA) under the guidance of Chief Economic Advisor ____.

Ans 1. Krishnamurthy Subramanian
 2. V Anantha Nageswaran
 3. A N Gopalakrishnan
 4. B V R Subrahmanyam

Question ID : 630680214991

Option 1 ID : 630680833989

Option 2 ID : 630680833988

Option 3 ID : 630680833990

Option 4 ID : 630680833987

Status : Not Answered

Chosen Option : --

Q.11 Who among the following was the Viceroy during the Simla Conference under British Rule in 1945?

Ans 1. Lord Wavell
 2. Lord Linlithgow
 3. Lord Willingdon
 4. Lord Mountbatten

Question ID : 630680214992

Option 1 ID : 630680833992

Option 2 ID : 630680833993

Option 3 ID : 630680833994

Option 4 ID : 630680833991

Status : Not Answered

Chosen Option : --

Q.12 Abhinaya Darpanam is a Sanskrit treatise on Indian classical dances authored by:

Ans 1. Srivijaya
 2. Bhattoji Diksita
 3. Mahendravarman
 4. Nandikeshvara

Question ID : 630680214993

Option 1 ID : 630680833996

Option 2 ID : 630680833997

Option 3 ID : 630680833998

Option 4 ID : 630680833995

Status : Not Answered

Chosen Option : --

Q.13 Jaintia hills are part of:

Ans 1. Deccan Plateau
 2. Meghalaya Plateau
 3. Satpura Range
 4. Zaskar Range

Question ID : 630680214995

Option 1 ID : 630680834004

Option 2 ID : 630680834005

Option 3 ID : 630680834006

Option 4 ID : 630680834003

Status : Not Answered

Chosen Option : --

Q.14 Which of the following is true about the Article of the Indian Constitution?

Ans 1. Article 17 - Prohibition of discrimination on grounds of religion, race, caste, sex, or place of birth
 2. Article 15 - Abolition of Untouchability
 3. Article 23A - Right to education
 4. Article 22 - Protection against arrest and detention in certain cases.

Question ID : 630680214997

Option 1 ID : 630680834011

Option 2 ID : 630680834012

Option 3 ID : 630680834013

Option 4 ID : 630680834014

Status : Not Answered

Chosen Option : --



Q.15 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

VERACITY

P

Q

Ans

- 1. **Y E R A C I T Y**
- 2. **Y E R A C I T Y**
- 3. **Y E R A C I T Y**
- 4. **Y T I C A R E V**

Question ID : **630680215001**

Option 1 ID : **630680834030**

Option 2 ID : **630680834028**

Option 3 ID : **630680834027**

Option 4 ID : **630680834029**

Status : **Answered**

Chosen Option : **1**

Q.16 Select the number from among the given options that can replace the question mark (?) in the following series.

19, 24, 34, 51, 77,?

Ans

- 1. **121**
- 2. **114**
- 3. **111**
- 4. **132**

Question ID : **630680215002**

Option 1 ID : **630680834033**

Option 2 ID : **630680834032**

Option 3 ID : **630680834031**

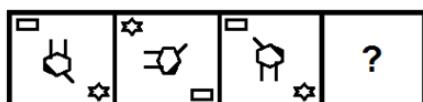
Option 4 ID : **630680834034**

Status : **Not Answered**

Chosen Option : **--**



Q.17 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans



Question ID : 630680215000

Option 1 ID : 630680834023

Option 2 ID : 630680834026

Option 3 ID : 630680834024

Option 4 ID : 630680834025

Status : Answered

Chosen Option : 3

Q.18 Vaidehi walks 23 m towards the north from her home, then she turns right and walks 41 m. After that, she turns left and walks 20 m. Then she turns left and walks 41 m. Then she turns right and walks 18 m. How far is she now from her home?

Ans

1. 59 m

2. 61 m

3. 64 m

4. 67 m

Question ID : 630680214999

Option 1 ID : 630680834019

Option 2 ID : 630680834020

Option 3 ID : 630680834021

Option 4 ID : 630680834022

Status : Answered

Chosen Option : 2

Q.19 In a certain code language, 'ROAR' is written as 'ILZI', and 'MAND' is written as 'NZMW'. How will 'FLOWER' be written in that language?

Ans 1. UOLDVI

2. YOLDUI

3. UOLEVJ

4. UPLDVH

Question ID : 630680214998

Option 1 ID : 630680834016

Option 2 ID : 630680834015

Option 3 ID : 630680834017

Option 4 ID : 630680834018

Status : Answered

Chosen Option : 1

Q.20 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

B_E_ZH__NEW_HYBN_WZ_YB_EW_HY

Ans 1. NWZBYEHNZ

2. NWYBZEHNZ

3. NWYBENHNZ

4. NWYBZEZNH

Question ID : 630680215003

Option 1 ID : 630680834036

Option 2 ID : 630680834038

Option 3 ID : 630680834037

Option 4 ID : 630680834035

Status : Answered

Chosen Option : 2

Section : English Language

Q.1 Identify the INCORRECTLY spelt word.

Ans 1. Imaculate

2. Exaggerate

3. Unbiased

4. Eradicate

Question ID : 630680215015

Option 1 ID : 630680834086

Option 2 ID : 630680834083

Option 3 ID : 630680834084

Option 4 ID : 630680834085

Status : Not Answered

Chosen Option : --

Q.2 Select the most appropriate idiom that can substitute the underlined segment in the given sentence.

When you carry cash while travelling, you must be on the alert.

Ans 1. keep pace with

2. keep your eyes open

3. keep your fingers crossed

4. keep up appearances

Question ID : 630680215018

Option 1 ID : 630680834096

Option 2 ID : 630680834097

Option 3 ID : 630680834098

Option 4 ID : 630680834095

Status : Not Answered

Chosen Option : --

Q.3 Parts of the following sentence have been given as options. Select the option that contains an error.

She refused to sign the contract at these terms.

Ans 1. the contract

2. to sign

3. at these terms

4. She refused

Question ID : 630680215008

Option 1 ID : 630680834057

Option 2 ID : 630680834056

Option 3 ID : 630680834058

Option 4 ID : 630680834055

Status : Not Answered

Chosen Option : --

Q.4 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. takes with it people who are interested in
- B. concerning the terrain, weather and life forms
- C. of science for recording their observations
- D. every large mountaineering expedition
- E. biology, botany, geology and other branches

Ans 1. BCDAE

2. ECADB

3. DCAEB

4. DAECB

Question ID : 630680215010

Option 1 ID : 630680834063

Option 2 ID : 630680834065

Option 3 ID : 630680834064

Option 4 ID : 630680834066

Status : Not Answered

Chosen Option : --

Q.5 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. and it seldom did
- B. and make merry
- C. if any money came his way
- D. he would call all his friends

Ans 1. CDBA

2. CADB

3. DCAB

4. DABC

Question ID : 630680215019

Option 1 ID : 630680834099

Option 2 ID : 630680834101

Option 3 ID : 630680834102

Option 4 ID : 630680834100

Status : Not Answered

Chosen Option : --

Q.6 Parts of the following sentence have been given as options. Select the option that contains an error.

He was a debtor and owing every neighbour some money.

Ans 1. some money

2. every neighbour

3. and owing

4. He was a debtor

Question ID : 630680215017

Option 1 ID : 630680834094

Option 2 ID : 630680834093

Option 3 ID : 630680834092

Option 4 ID : 630680834091

Status : Not Answered

Chosen Option : --

Q.7 Select the most appropriate synonym of the given word.

Peevish

Ans 1. Hideous

2. Ridiculous

3. Meagre

4. Irritable

Question ID : 630680215013

Option 1 ID : 630680834078

Option 2 ID : 630680834076

Option 3 ID : 630680834077

Option 4 ID : 630680834075

Status : Not Answered

Chosen Option : --

Q.8 Select the most appropriate idiom that can substitute the underlined segment in the given sentence.

You will suffer loss or hurt if you invest more money in your friend's business.

Ans 1. beat a retreat
 2. bury the hatchet
 3. burn your fingers
 4. build castles in the air

Question ID : 630680215011

Option 1 ID : 630680834069

Option 2 ID : 630680834067

Option 3 ID : 630680834068

Option 4 ID : 630680834070

Status : Not Answered

Chosen Option : --

Q.9 Parts of the following sentence has been given as options. One of them may contain a grammatical error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The farm labourers complained for the oppressive laws.

Ans 1. The farm labourers
 2. the oppressive laws
 3. No error
 4. complained for

Question ID : 630680215005

Option 1 ID : 630680834043

Option 2 ID : 630680834045

Option 3 ID : 630680834046

Option 4 ID : 630680834044

Status : Not Answered

Chosen Option : --

Q.10 Select the most appropriate option to fill in the blank.

What _____ great disappointment the result was for me!

Ans 1. an
 2. a
 3. the
 4. one

Question ID : 630680215004

Option 1 ID : 630680834039

Option 2 ID : 630680834040

Option 3 ID : 630680834041

Option 4 ID : 630680834042

Status : Not Answered

Chosen Option : --

Q.11 Select the most appropriate ANTONYM of the given word.

Precious

Ans 1. Worthless
 2. Rational
 3. Miserable
 4. Fickle

Question ID : 630680215012

Option 1 ID : 630680834073

Option 2 ID : 630680834072

Option 3 ID : 630680834074

Option 4 ID : 630680834071

Status : Not Answered

Chosen Option : --

Q.12 Parts of the following sentence has been given as options. One of them may contain a grammatical error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

My watch has being running slow since morning so I am late for work.

Ans 1. so I am late for work
 2. No error
 3. My watch has being running
 4. slow since morning

Question ID : 630680215007

Option 1 ID : 630680834053

Option 2 ID : 630680834054

Option 3 ID : 630680834051

Option 4 ID : 630680834052

Status : Not Answered

Chosen Option : --

Q.13 Parts of the following sentence has been given as options. One of them may contain a grammatical error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The ground under my feet started shaking calmly.

Ans 1. under my feet
 2. started shaking calmly
 3. The ground
 4. No error

Question ID : 630680215006

Option 1 ID : 630680834048

Option 2 ID : 630680834049

Option 3 ID : 630680834047

Option 4 ID : 630680834050

Status : Not Answered

Chosen Option : --

Q.14 Select the most appropriate option to fill in the blanks.

_____ idea struck me as I was taking _____ stroll in the garden.

Ans 1. A; the

2. An; a

3. No word required

4. The; the

Question ID : 630680215016

Option 1 ID : 630680834088

Option 2 ID : 630680834087

Option 3 ID : 630680834090

Option 4 ID : 630680834089

Status : Not Answered

Chosen Option : --

Q.15 Identify the INCORRECTLY spelt word.

Ans 1. Deceit

2. Devoid

3. Deligent

4. Distinct

Question ID : 630680215014

Option 1 ID : 630680834079

Option 2 ID : 630680834082

Option 3 ID : 630680834081

Option 4 ID : 630680834080

Status : Not Answered

Chosen Option : --

Q.16 Parts of the following sentence have been given as options. Select the option that contains an error.

Nobody knew why the crowd had assemble outside the hospital.

Ans 1. why the crowd

2. Nobody knew

3. outside the hospital

4. had assemble

Question ID : 630680215009

Option 1 ID : 630680834060

Option 2 ID : 630680834059

Option 3 ID : 630680834062

Option 4 ID : 630680834061

Status : Not Answered

Chosen Option : --

Comprehension:

Read the given passage and answer the questions that follow.

Everybody agreed that the beast was more than a nuisance. It had attacked and killed, on numerous occasions, goats and sheep grazing in the field. But for it to attack animals in the village at night raised genuine fears. The general consensus was that the lion should be hunted down and got rid of.

Easier said than done. As the lion sprang it caught one man, brought him to the ground and lay upon him. Chaka, who was on the outside wing, came running up, and first of all tried to stop one of the men and get him to join in the rescue, but it was evident that the man could neither speak nor stop; flight was the only thing for him. Chaka ran on shouting so that the lion might hear that someone was coming, and thus be hindered from killing his victim at once.

When Chaka was still a little way off the lion roared once more, and his roar made the fugitives quicken their speed, for they thought that the lion was there close behind them. With a roar the lion sprang, his claws bared ready to devour a man. The lion sprang once more, and this time he was upon him.

As Chaka was entirely without fear, he simply waited for it and let it jump, but while it was in the air he moved slightly to one side. The lion continued in its original course, for, not being a bird, it could not change its course in the air. While it was still in the air, and just before it reached the ground, Chaka stabbed it behind the shoulders with his spear, so that when it reached the ground it fell – a mighty fall. While it was dying its roars were terrible to hear. Chaka looked at it without fear: it did not seem as if he was looking at a deadly beast of prey which had just attacked him.

The crowd of men had just reached the village when Chaka stabbed the lion, and its last terrible roars made all the fugitives rush into the huts with never a look behind...

SubQuestion No : 17

Q.17 Why did Chaka shout as he ran towards the lion?

Ans 1. To stab the beast with his spear
 2. To make the villagers run away faster
 3. To stop the lion from killing his victim
 4. To gather courage to attack the lion

Question ID : **630680215022**

Option 1 ID : **630680834110**

Option 2 ID : **630680834108**

Option 3 ID : **630680834109**

Option 4 ID : **630680834107**

Status : **Answered**

Chosen Option : **3**



Comprehension:

Read the given passage and answer the questions that follow.

Everybody agreed that the beast was more than a nuisance. It had attacked and killed, on numerous occasions, goats and sheep grazing in the field. But for it to attack animals in the village at night raised genuine fears. The general consensus was that the lion should be hunted down and got rid of.

Easier said than done. As the lion sprang it caught one man, brought him to the ground and lay upon him. Chaka, who was on the outside wing, came running up, and first of all tried to stop one of the men and get him to join in the rescue, but it was evident that the man could neither speak nor stop; flight was the only thing for him. Chaka ran on shouting so that the lion might hear that someone was coming, and thus be hindered from killing his victim at once.

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The crowd of men had just reached the village when Chaka stabbed the lion, and its last terrible roars made all the fugitives rush into the huts with never a look behind...

SubQuestion No : 18

Q.18 How did Chaka feel when the beast sprang upon him?

Ans 1. Fearless
 2. Terrified
 3. Angry
 4. Speechless

Question ID : **630680215023**

Option 1 ID : **630680834114**

Option 2 ID : **630680834113**

Option 3 ID : **630680834111**

Option 4 ID : **630680834112**

Status : **Answered**

Chosen Option : **1**



Comprehension:

Read the given passage and answer the questions that follow.

Everybody agreed that the beast was more than a nuisance. It had attacked and killed, on numerous occasions, goats and sheep grazing in the field. But for it to attack animals in the village at night raised genuine fears. The general consensus was that the lion should be hunted down and got rid of.

Easier said than done. As the lion sprang it caught one man, brought him to the ground and lay upon him. Chaka, who was on the outside wing, came running up, and first of all tried to stop one of the men and get him to join in the rescue, but it was evident that the man could neither speak nor stop; flight was the only thing for him. Chaka ran on shouting so that the lion might hear that someone was coming, and thus be hindered from killing his victim at once.

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The crowd of men had just reached the village when Chaka stabbed the lion, and its last terrible roars made all the fugitives rush into the huts with never a look behind...

SubQuestion No : 19

Q.19 What made the villagers really fear the lion?

Ans 1. It suddenly jumped on people.
 2. It attacked animals during the night.
 3. It shook the earth with its roars.
 4. It killed the cattle grazing in the fields.

Question ID : **630680215021**

Option 1 ID : **630680834105**

Option 2 ID : **630680834104**

Option 3 ID : **630680834106**

Option 4 ID : **630680834103**

Status : **Not Answered**

Chosen Option : --



Comprehension:

Read the given passage and answer the questions that follow.

Everybody agreed that the beast was more than a nuisance. It had attacked and killed, on numerous occasions, goats and sheep grazing in the field. But for it to attack animals in the village at night raised genuine fears. The general consensus was that the lion should be hunted down and got rid of.

Easier said than done. As the lion sprang it caught one man, brought him to the ground and lay upon him. Chaka, who was on the outside wing, came running up, and first of all tried to stop one of the men and get him to join in the rescue, but it was evident that the man could neither speak nor stop; flight was the only thing for him. Chaka ran on shouting so that the lion might hear that someone was coming, and thus be hindered from killing his victim at once.

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As Chaka was entirely without fear, he simply waited for it and let it jump, but while it was in the air he moved slightly to one side. The lion continued in its original course, for, not being a bird, it could not change its course in the air. While it was still in the air, and just before it reached the ground, Chaka stabbed it behind the shoulders with his spear, so that when it reached the ground it fell – a mighty fall. While it was dying its roars were terrible to hear. Chaka looked at it without fear: it did not seem as if he was looking at a deadly beast of prey which had just attacked him.

The crowd of men had just reached the village when Chaka stabbed the lion, and its last terrible roars made all the fugitives rush into the huts with never a look behind...

SubQuestion No : 20

Q.20 What type of passage is it?

Ans 1. Discursive
 2. Persuasive
 3. Narrative
 4. Informative

Question ID : **630680215024**

Option 1 ID : **630680834117**

Option 2 ID : **630680834115**

Option 3 ID : **630680834116**

Option 4 ID : **630680834118**

Status : **Answered**

Chosen Option : **4**

