



Uttar Pradesh Metro Rail Corporation Limited

उत्तर प्रदेश मेट्रो रेल कॉर्पोरेशन लिमिटेड

A joint Venture of Govt. of India and Govt. of Uttar Pradesh

Participant ID	
Participant Name	
Test Center Name	
Test Date	11/05/2024
Test Time	9:00 AM - 11:00 AM
Subject	Junior Engineer Electrical

Section : Section A

Q.1 Which motor is used in generator type DC welding set?

Ans A. Differentially compounded DC generator

B. DC series generator

C. Cumulatively compounded DC generator

D. DC shunt generator

Question ID : 63068077241

Status : Answered

Chosen Option : A

Q.2 वह व्यक्ति जो लोगों को मस्जिद में प्रार्थना करने (नमाज़ पढ़ने) के लिए बुलाता है उसे _____ कहा जाता है।

Ans A. पैगम्बर

B. हाजी

C. इमाम

D. मुअज़्ज़िन

Question ID : 630680571602

Status : Answered

Chosen Option : C

Q.3 The bandwidth of a CRO is 0–20 MHz. What is the fastest rise time of the sine wave that can be reproduced accurately?

Ans A. 20 ns

B. 35 ns

C. 17.5 ns

D. 70 ns

Question ID : 630680777300

Status : Answered

Chosen Option : C

Q.4 Specific gravity of the electrolyte is an indication of state of charge of the battery. How is the specific gravity measured?

Ans A. By using a calorimeter

B. By using a pH meter

C. By using a hydrometer

D. By using a barometer

Question ID : 630680777269

Status : Answered

Chosen Option : C

Q.5 An AC source of peak value 20 V is connected in series with a silicon diode and a load resistance of 1000 Ω . Neglecting the forward resistance of the diode, what is the peak value of output voltage?

Ans A. 19.3 V

B. 10 V

C. 0 V

D. 19.7 V

Question ID : 630680777255

Status : Answered

Chosen Option : A

Q.6 1 Wh of energy is equivalent to ____ joules.

- Ans A. 3.6
 B. 3600
 C. 3.6×10^3
 D. 3.6×10^6

Question ID : 630680777200
Status : Answered
Chosen Option : C

Q.7 A low-pass filter has an input signal-to-noise ratio of 25. What will be the noise voltage if the input voltage is 5 mV?

- Ans A. 0.02 mV
 B. 0.5 mV
 C. 1 mV
 D. 0.04 mV

Question ID : 630680777299
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.8 As per the census 2011, which of the following states had the highest gap in literacy rates between males and females?

- Ans A. Kerala
 B. Bihar
 C. Jharkhand
 D. Rajasthan

Question ID : 630680283346
Status : Answered
Chosen Option : B

Q.9 A moving-coil voltmeter has a uniform scale with 200 divisions and the full-scale reading is 200 V. What is the resolution of the voltmeter if one-fifth of the scale division can be estimated accurately?

- Ans A. 0.1 V
 B. 1 V
 C. 0.5 V
 D. 0.2 V

Question ID : 630680777292
Status : Answered
Chosen Option : B

Q.10 Which of the following statements is/are true?

1. In a feedback system, the controlled variable follows the desired variable.
2. Feedback control allows accurate control of the output.

- Ans A. Only 2
 B. Neither 1 nor 2
 C. Only 1
 D. Both 1 and 2

Question ID : 630680777258
Status : Answered
Chosen Option : D

Q.11 Which of the following is generally used as an electrolyte in lead-acid batteries?

- Ans A. Sulphuric acid
 B. Nitric acid
 C. Potassium hydroxide
 D. Hydrochloric acid

Question ID : 630680777263
Status : Answered
Chosen Option : A

Q.12 Which of the following options does NOT represent a property of a soft ferromagnetic material?

- Ans A. It is used to make electromagnets.
 B. It has a narrow hysteresis loop.
 C. It can be easily magnetised.
 D. It has high coercivity.

Question ID : 63068077276
Status : Answered
Chosen Option : D

Q.13 30 litres of a mixture contains milk and water in the ratio 8 : 4. If 6 litres of this mixture is replaced by 6 litres of milk, the ratio of milk to water in the new mixture will be:

- Ans A. 1 : 8
 B. 11 : 4
 C. 11 : 8
 D. 1 : 4

Question ID : 630680131489
Status : Answered
Chosen Option : B

Q.14 In March 2021, the Parliament passed the Constitution (Scheduled Castes) Order (Amendment) Bill, 2021. This bill was introduced to modify the list of Scheduled Castes in which state of India?

- Ans A. Tamil Nadu
 B. Kerala
 C. Andhra Pradesh
 D. Karnataka

Question ID : 630680116395
Status : Answered
Chosen Option : D

Q.15 Which of the following statements is/are true?

1. An electric drive is simple, clean and reliable.
2. Electric drive is costlier in terms of initial as well as in maintenance cost.

- Ans A. Only 1
 B. Only 2
 C. Neither 1 nor 2
 D. Both 1 and 2

Question ID : 63068077235
Status : Answered
Chosen Option : D

Q.16 Select the most appropriate meaning of the given proverb.
There is no garden without its weeds.

- Ans A. Searching for a perfect garden is a false attempt.
 B. It is impossible to imagine a garden without weeds.
 C. There is no perfection; everybody and everything has faults.
 D. All gardens have some or the other kind of troubles.

Question ID : 630680317849
Status : Answered
Chosen Option : B

Q.17 Which of the following types of motor does NOT possess inherent regenerative braking?

- Ans A. Separately excited DC motor
 B. DC shunt motor
 C. Three-phase induction motor
 D. DC series motor

Question ID : 63068077240
Status : Answered
Chosen Option : D

Q.18 What will be the susceptance of a circuit if its impedance is $(2 - j4) \Omega$?

- Ans A. 0.2 S
 B. 0.25 S
 C. 0.4 S
 D. 0.5 S

Question ID : 630680777207
 Status : Answered
 Chosen Option : A

Q.19 What is the Boolean expression for two input (A and B) NOR gate?

- Ans A. $\overline{A + B}$
 B. $A + B$
 C. AB
 D. $\overline{A} + \overline{B}$

Question ID : 630680777279
 Status : Answered
 Chosen Option : A

Q.20 Which of the following statements is/are true?

- The O. C. test on a transformer, conducted on the LV side of the transformer, gives the core loss when the LV side is applied with its rated voltage.
- The S. C. test on a transformer, conducted on the HV side of the transformer, gives the full-load copper loss when the full-load current is allowed to flow through the windings.

- Ans A. Both 1 and 2
 B. Only 1
 C. Only 2
 D. Neither 1 nor 2

Question ID : 630680777228
 Status : Answered
 Chosen Option : A

Q.21 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the one that does not belong to that group?

- Ans A. TQO
 B. HEC
 C. NKI
 D. KGD

Question ID : 630680360177
 Status : Answered
 Chosen Option : D

Q.22 The HCF of $\frac{1}{3}$, $\frac{2}{5}$, $\frac{3}{7}$ and $\frac{4}{7}$ is:

- Ans A. $\frac{1}{7}$
 B. $\frac{1}{21}$
 C. $\frac{1}{15}$
 D. $\frac{1}{105}$

Question ID : 630680630073
 Status : Answered
 Chosen Option : D

Q.23 Which day is observed as Social Empowerment Day to commemorate Mahad Satyagraha undertaken by Dr. Baba Saheb Ambedkar in Kolaba District in Maharashtra?

- Ans A. 20 April
 B. 20 February
 C. 20 March
 D. 20 January

Question ID : 63068087069
 Status : Not Answered
 Chosen Option : --

Q.24 What is the frequency of the EMF induced in the armature winding of a DC generator in terms of speed (N) (in rpm) and the number of poles (P)?

- Ans
- A. $\frac{NP}{120}$
- B. $\frac{NP}{60}$
- C. $\frac{NP}{2}$
- D. Zero

Question ID : 630680775252
Status : Answered
Chosen Option : A

Q.25 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. Because they must be constantly on the lookout for predators, the marine mammals have developed a neat trick of maintaining partial consciousness even as part of their brain sleeps.
- B. Dolphins are known to be one of the smartest animals on the planet, possibly because they can conserve their brain power.
- C. But they have found that even after five days of having their nocturnal alertness constantly tested, they've remained as alert and perceptive as ever.
- D. Researchers have tested whether this 'half sleep' negatively impacts the animals' alertness during the day.

- Ans
- A. BCAD
- B. BCDA
- C. BACD
- D. BADC

Question ID : 630680204442
Status : Answered
Chosen Option : C

Q.26 शब्द BLUSTERING के प्रत्येक स्वर को अंग्रेजी वर्णानुक्रम में उसके बाद आने वाले दूसरे अक्षर से बदल दिया जाता है और प्रत्येक व्यंजन को अंग्रेजी वर्णानुक्रम में उसके ठीक पहले आने वाले अक्षर से बदल दिया जाता है। इस प्रकार बने अक्षरों के समूह में कितने अक्षर दो बार आयेंगे?

- Ans
- A. एक
- B. दो
- C. तीन
- D. शून्य

Question ID : 630680533509
Status : Answered
Chosen Option : A

Q.27 Which logic gate does the truth table given below represent?

(A and B are the inputs and Y is the output.)

A	B	Y
0	0	1
1	0	1
0	1	1
1	1	0

- Ans
- A. NOR
- B. NAND
- C. AND
- D. OR

Question ID : 630680777283
Status : Answered
Chosen Option : B

Q.28 A shunt generator delivers an armature current of 200 A at full load. If the load voltage is 200 V and the resistance of the armature winding is 0.1 Ω , then what is the induced EMF?

- Ans
- A. 180 V
- B. 220 V
- C. 210 V
- D. 190 V

Question ID : 630680777218
Status : Answered
Chosen Option : B

Section : Section B

Q.1 The decimal equivalent of $(412)_{16}$ is _____.

- Ans
- A. 982
 - B. 1082
 - C. 1042
 - D. 882

Question ID : 63068077281
Status : Answered
Chosen Option : C

Q.2 निम्नलिखित में से किसने अपनी रचनाओं में रज़िया सुल्तान के लिंग (जेंडर) के कारण शासक के रूप में उसकी स्थिति के प्रति असंतोष प्रकट किया था?

- Ans
- A. याह्या-बिन अहमद सरहिंदी
 - B. अबुल फज़ल
 - C. हसन निज़ामी
 - D. मिन्हाज-उस-सिराज

Question ID : 63068033529
Status : Not Answered
Chosen Option : --

Q.3 The magnetic material of which class gets weakly magnetised when placed in an external field?

- Ans
- A. diamagnetic
 - B. antimagnetic
 - C. ferromagnetic
 - D. paramagnetic

Question ID : 63068077270
Status : Answered
Chosen Option : D

Q.4 Which method of heating is most suitable for sterilisation of bandages, sterile gauges and instruments?

- Ans
- A. Dielectric heating
 - B. Induction heating
 - C. Arc heating
 - D. Direct resistance heating

Question ID : 63068077246
Status : Answered
Chosen Option : B

Q.5 Which of the following is a property of a diamagnetic material?

- Ans
- A. Relative permeability being less than 1
 - B. Relative permeability being much greater than unity
 - C. Relative permeability being less than 0
 - D. Relative permeability being slightly greater than unity

Question ID : 63068077266
Status : Answered
Chosen Option : A

Q.6 ' N_s ' is the speed of the rotating magnetic field and ' N ' is the speed of the rotor of a three-phase induction motor with respect to the stator. What is the difference between the two speeds ($N_s - N$) in terms of the slip of the motor (s)?

- Ans
- A. $s^2 N_s$
 - B. $s N_s$
 - C. $(1 - s) N_s$
 - D. $(1 - s)^2 N_s$

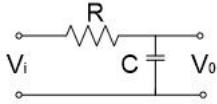
Question ID : 63068077225
Status : Answered
Chosen Option : B

Q.7 A right triangle with sides 5 cm, 12 cm and 13 cm is rotated about the side of 5 cm to form a cone. The volume (in cm^3) of the

- Ans
- A. 110π
 - B. 115π
 - C. 120π
 - D. 100π

Question ID : 63068077260
Status : Answered
Chosen Option : D

Q.8 What is the transfer function of the RC circuit shown below?



- Ans
- A. $\frac{1}{1 + sRC}$
 - B. $\frac{s}{1 + sRC}$
 - C. $\frac{s}{s + RC}$
 - D. $\frac{sR}{1 + sRC}$

Question ID : 63068077260
Status : Not Answered
Chosen Option : --

Q.9 A DC motor develops 180 W when connected to a 200 V supply. What is the current drawn from the supply if the armature resistance is 0.5Ω ?

- Ans
- A. 20 A
 - B. 40 A
 - C. 80 A
 - D. 400 A

Question ID : 63068077217
Status : Answered
Chosen Option : B

Q.10 What is the unit of luminous intensity?

- Ans
- A. Lumens/watt
 - B. Lumens/m
 - C. Lumens/steradian
 - D. Lumens/radian

Question ID : 63068077233
Status : Answered
Chosen Option : C

Q.11 Select the most appropriate option to fill in the blank.
There is something undoubtedly very _____ about his demeanour.

- Ans
- A. strange
 - B. meagre
 - C. ample
 - D. dormant

Question ID : 630680317811
Status : Answered
Chosen Option : A

Q.12 Find the duration (in years) in which ₹1200 will amount to ₹2460 at a rate of 12% per annum simple interest.

- Ans A. 10.75
 B. 9.75
 C. 7.75
 D. 8.75

Question ID : 630680612347
 Status : Answered
 Chosen Option : D

Q.13 Select the most appropriate meaning of the given idiom.

Too many irons in the fire

- Ans A. A person who interferes in others affair
 B. A person who is frustrated and disappointed
 C. A person who is engaged in many activities
 D. A person having many friends to offer help

Question ID : 630680134948
 Status : Answered
 Chosen Option : A

Q.14 What should come in place of the question mark (?) in the given series?

36 57 82 111 144 ?

- Ans A. 176
 B. 167
 C. 181
 D. 152

Question ID : 630680542309
 Status : Not Attempted and Marked For Review
 Chosen Option : --

Q.15 उपादान लागत की गणना कैसे की जाती है?

- Ans A. बाज़ार मूल्य + निवल अप्रत्यक्ष कर
 B. बाज़ार मूल्य + मूल्यहास
 C. बाज़ार मूल्य – मूल्यहास
 D. बाज़ार मूल्य– निवल अप्रत्यक्ष कर

Question ID : 63068068823
 Status : Answered
 Chosen Option : D

Q.16 A meter reads 220.2 V, while the true value of the voltage is 220 V. What is the static error in measurement?

- Ans A. -0.1 V
 B. 0.2 V
 C. -0.2 V
 D. 0.1 V

Question ID : 63068077288
 Status : Answered
 Chosen Option : B

Q.17 What will be the effect on the energy stored in the magnetic field if the current flowing through a coil is doubled?

- Ans A. The energy stored will double.
 B. The energy stored will remain the same.
 C. The energy stored will increase by 4 times.
 D. The energy stored will reduce by 50%.

Question ID : 63068077208
 Status : Answered
 Chosen Option : C

Q.18 As per the Boolean theorem, what is $A + \bar{A}$?

- Ans
- A. A
 - B. \bar{A}
 - C. 1
 - D. 0

Question ID : 63068077278
Status : Answered
Chosen Option : C

Q.19 Which of the following is the correct expression for illumination on a surface that is inclined at angle ' θ ' from the surface that is normal to the light rays?
(Consider that ' I ' is the luminous intensity of the source and ' r ' is the distance of the source from the surface that is normal to the light rays.)

- Ans
- A. $\frac{I \cos \theta}{r}$
 - B. $\frac{I^2 \cos \theta}{r^2}$
 - C. $\frac{I^2 \cos \theta}{r}$
 - D. $\frac{I \cos \theta}{r^2}$

Question ID : 63068077238
Status : Answered
Chosen Option : D

Q.20 निम्नलिखित में से किस प्रकार की वनस्पति गंगा डेल्टा की तटीय पट्टी में पाई जाती है?

- Ans
- A. उष्णकटिबंधीय सदाबहार
 - B. झाड़ियाँ और काटेदार
 - C. ज्वारीय
 - D. पर्वतीय

Question ID : 630680601273
Status : Answered
Chosen Option : C

Q.21 Which of the following statements is/are true?

1. Once a p-n junction is formed and the depletion layer is created, diffusion of free electrons starts.
2. There exists a potential difference across the depletion layer and it is called barrier potential.

- Ans
- A. Neither 1 nor 2
 - B. Only 2
 - C. Only 1
 - D. Both 1 and 2

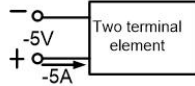
Question ID : 63068077253
Status : Answered
Chosen Option : B

Q.22 Equal resistances of 100Ω each are connected in each arm of a Wheatstone bridge, which is supplied by a 2 V battery source. The galvanometer used has negligible resistance and can sense as low as $1 \mu\text{A}$. What is the smallest value of resistance that can be measured with this arrangement?

- Ans
- A. $2 \mu\Omega$
 - B. $20 \text{ m}\Omega$
 - C. $200 \text{ m}\Omega$
 - D. $20 \mu\Omega$

Question ID : 63068077301
Status : Answered
Chosen Option : B

Q.23 What is the power absorbed by the two-terminal element shown in the figure below?



- Ans
- A. 25 W
 - B. 10 W
 - C. -10 W
 - D. -25 W

Question ID : 63068077199
Status : Answered
Chosen Option : A

Q.24 Two capacitors of capacitances $40\ \mu\text{F}$ and $160\ \mu\text{F}$ are connected in series across a single-phase AC supply. What is the equivalent capacitance as seen by the source?

- Ans
- A. $200\ \mu\text{F}$
 - B. $100\ \mu\text{F}$
 - C. $32\ \mu\text{F}$
 - D. $120\ \mu\text{F}$

Question ID : 63068077202
Status : Answered
Chosen Option : C

Q.25 K, L, M, N, U, V और X एक वृत्ताकार मेज के चारों ओर केंद्र की ओर अभिमुख होकर बैठे हैं। V, X के बाएँ से तीसरे स्थान पर बैठा है। U, N के बाएँ से दूसरे स्थान पर बैठा है। L और U के बीच केवल X बैठा है। K, V का निकटतम पड़ोसी नहीं है। M के दाएँ से गिनने पर, M और U के बीच कुल कितने व्यक्ति बैठे हैं?

- Ans
- A. एक
 - B. तीन
 - C. दो
 - D. चार

Question ID : 630680544697
Status : Not Answered
Chosen Option : --

Q.26 A multi-range DC milliammeter has an internal resistance of $50\ \Omega$ and full-scale deflection current of $1\ \text{mA}$. If the range required is $0\text{--}10\ \text{mA}$, then what is the multiplying factor needed?

- Ans
- A. 0.1
 - B. 10
 - C. 0.01
 - D. 1

Question ID : 63068077294
Status : Answered
Chosen Option : A

Q.27 Which of the following statements about a synchronous motor is FALSE?

- Ans
- A. A synchronous motor runs at one speed.
 - B. A synchronous motor behaves like a capacitor when it is underexcited.
 - C. A synchronous motor can operate at a range of leading and lagging power factors.
 - D. A synchronous motor is not a self-starting motor.

Question ID : 63068077229
Status : Answered
Chosen Option : B

Q.28 Who among the following is the first Indian woman to clinch the International Cricket Council's 'Player of the Month' award?

- Ans
- A. Jemimah Rodrigues
 - B. Smriti Mandhana
 - C. Harmanpreet Kaur
 - D. Jhulan Goswami

Question ID : 630680196031
Status : Not Answered
Chosen Option : --

Section : Section C

Q.1 Sentences of a paragraph are given below. While the first and the last sentences (S1 and S6) are in the correct order, the sentences in between are jumbled up. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

S1) Paragliding is a recreational and competitive adventure sport of cross-country flying through the sky.
A) It is done using a light-weight, free-flying and foot launched glider aircraft with no rigid structure.
B) A certified and experienced paraglider can stay up in the air solely on wind power for hours.
C) This tandem flight in the sky is indeed expensive, but the experience is worth every paisa.
D) Flying over mountains and admiring the landscape is an activity which gives immense pleasure.
S6) Once a person has tasted one flight, he/she will always long for another, such is the experience.

Ans A. DCAB
 B. ABCD
 C. BADC
 D. CDAB

Question ID : 630680435565
Status : Answered
Chosen Option : B

Q.2 In which type of magnetic material do atoms have no magnetic moment and the susceptibility is small and negative?

Ans A. Paramagnetic material
 B. Diamagnetic material
 C. Anti-ferromagnetic material
 D. Ferrimagnetic material

Question ID : 630680777274
Status : Answered
Chosen Option : B

Q.3 Which organisation announced in July 2021 that it is going to set up India's largest solar power project in Gujarat?

Ans A. Rural Electrification Corporation Limited
 B. Engineers India Limited
 C. NTPC Limited
 D. Bharat Electronics Limited

Question ID : 630680158432
Status : Answered
Chosen Option : C

Q.4 With reference to common emitter configuration of a transistor amplifier circuit, what is the ratio of a small change in the base-emitter voltage (ΔV_{BE}) to the resulting change in the base current (ΔI_B) at a constant collector-emitter voltage?

Ans A. Input resistance
 B. Output resistance
 C. Effective collector load
 D. Transfer resistance

Question ID : 630680777252
Status : Answered
Chosen Option : D

Q.5 In a certain code language, 'WING' is coded as '2741' and 'PING' is coded as '4812'. What is the code for 'P' in the given code language?

Ans A. 2
 B. 4
 C. 8
 D. 1

Question ID : 630680568453
Status : Answered
Chosen Option : C

Q.6 The voltage and the current of an impedance in a single-phase AC circuit are as given below.

$$v = 50 \sin (314t - 80^\circ)$$

$$i = 5 \sin (314t - 20^\circ)$$

What is the phase relationship between the two?

- Ans A. i lags v by 60°
 B. i lags v by 100°
 C. i leads v by 100°
 D. i leads v by 60°

Question ID : 63068077205

Status : Answered

Chosen Option : D

Q.7 with reference to the CRO, which of the following statements is/are true?

- Gain of the vertical amplifier determines the smallest signal that the oscilloscope can satisfactorily reproduce on the screen.
- Vertical sensitivity of the oscilloscope is the smallest deflection factor that can be selected with a rotary switch.

- Ans A. Neither 1 nor 2
 B. Both 1 and 2
 C. Only 2
 D. Only 1

Question ID : 63068077295

Status : Answered

Chosen Option : B

Q.8 भारतीय पंचांग में, वर्ष को छह द्वैमासिक ऋतुओं में बाँटा गया है। निम्नलिखित विकल्पों में से उस ऋतु की पहचान करें जो पारंपरिक सावन-भादो महीनों में आती है।

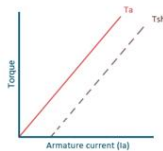
- Ans A. शिशिर
 B. शरद
 C. ग्रीष्म
 D. वर्षा

Question ID : 630680115710

Status : Answered

Chosen Option : D

Q.9 Identify the type of motor whose torque-current characteristic is as shown in the figure below.



- Ans A. Cumulatively compounded motor
 B. Shunt motor
 C. Differentially compounded motor
 D. Series motor

Question ID : 630680775238

Status : Answered

Chosen Option : B

Q.10 The speed of a DC series motor is controlled by using a diverter across its field winding. Without the diverter, the speed of the motor is 1000 rpm. What will be its speed when the resistance of the diverter is equal to the resistance of the field winding?

- Ans A. 4000 rpm
 B. 1000 rpm
 C. 500 rpm
 D. 2000 rpm

Question ID : 63068077220

Status : Answered

Chosen Option : D

Q.11 An electric bulb is rated 200 V and 400 W. If it is operated on 100 V, what will be the power consumed?

- Ans A. 50 W
 B. 25 W
 C. 75 W
 D. 100 W

Question ID : 63068077209
 Status : Answered
 Chosen Option : D

Q.12 What is the phase relationship between the current flowing through an arc and the voltage across it?

- Ans A. The arc current and the voltage across the arc are in phase opposition.
 B. The arc current and the voltage across the arc are in phase.
 C. The arc current lags the voltage across the arc by 90°.
 D. The arc current leads the voltage across the arc by 90°.

Question ID : 630680775266
 Status : Answered
 Chosen Option : B

Q.13 A 200 CP lamp hung at a certain height produces an illumination of 50 lux at a point directly below the lamp. What is the mounting height of the lamp?

- Ans A. 8 m
 B. 1 m
 C. 4 m
 D. 2 m

Question ID : 63068077245
 Status : Answered
 Chosen Option : D

Q.14 A lead-acid battery maintains a constant current of 1.5 A for 20 hours before its terminal voltage drops to 1.8 V. What is the capacity of the battery?

- Ans A. 36 Ah
 B. 18 Ah
 C. 15 Ah
 D. 30 Ah

Question ID : 63068077277
 Status : Answered
 Chosen Option : D

Q.15 संख्या 5631748 में प्रत्येक अंक बाएँ से दाएँ आरोही क्रम में व्यवस्थित किया जाता है। इस प्रकार निर्मित नई संख्या में बाएँ से दूसरे और दाएँ से दूसरे अंकों का योग क्या होगा?

- Ans A. 8
 B. 10
 C. 7
 D. 11

Question ID : 630680542542
 Status : Answered
 Chosen Option : B

Q.16 Select the most appropriate option to fill in the blank.

_____ United States is one of the most powerful countries of the world.

- Ans A. An
 B. A
 C. This
 D. The

Question ID : 630680328393
 Status : Answered
 Chosen Option : D

Q.17 What is the full form of 'MSCP' with reference to illumination?

- Ans A. Mean Spherical Candela Power
 B. Maximum Spherical Candle Power
 C. Mean Spherical Candle Power
 D. Maximum Spherical Candela Power

Question ID : 630680777236
 Status : Answered
 Chosen Option : C

Q.18 As per De Morgan's theorem, $\overline{A \cdot B}$ is equal to _____.

- Ans A. $A + B$
 B. $\overline{A} + \overline{B}$
 C. $\overline{A + B}$
 D. AB

Question ID : 630680777280
 Status : Answered
 Chosen Option : B

Q.19 What is the simplified form of the Boolean expression given by

$$Y = (\overline{A} + B)(A + B) ?$$

- Ans A. $Y = A$
 B. $Y = B$
 C. $Y = (\overline{A}B)$
 D. $Y = (A + B)$

Question ID : 630680777282
 Status : Answered
 Chosen Option : B

Q.20 In a RS flip flop, when both the set and reset inputs are zero., what are the outputs Q and \overline{Q} ?

- Ans A. $Q = 1, \overline{Q} = 1$
 B. $Q = 0, \overline{Q} = 1$
 C. $Q = 0, \overline{Q} = 0$
 D. $Q = 1, \overline{Q} = 0$

Question ID : 630680777285
 Status : Answered
 Chosen Option : B

Q.21 The value of $(0.\overline{37} + 0.\overline{47})$ is:

- Ans A. $\frac{28}{90}$
 B. $\frac{29}{33}$
 C. $\frac{28}{99}$
 D. $\frac{28}{33}$

Question ID : 630680218056
 Status : Answered
 Chosen Option : D

Q.22 The armature winding of a DC generator is lap wound with 6 poles and delivers an armature current of 120 A to an external load. What is the current carried by the armature conductors?

- Ans A. 40 A
 B. 20 A
 C. 60 A
 D. 120 A

Question ID : 630680777216
 Status : Answered
 Chosen Option : B

Q.23 A 4-pole DC machine has a wave-wound armature winding. How many parallel paths are present in the armature circuit?

- Ans A. 4
 B. 16
 C. 8
 D. 2

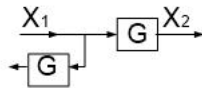
Question ID : 63068077213
 Status : Answered
 Chosen Option : D

Q.24 Which of the following private colleges was founded in Lahore under the aegis of the Arya Samaj?

- Ans A. The Dayanand Anglo Vedic College
 B. The Saraswati Anglo Vedic College
 C. The Arya Samaj Anglo Vedic College
 D. The Samaj College

Question ID : 630680147269
 Status : Not Answered
 Chosen Option : --

Q.25 What is ' X_2 ' in the block diagram shown below?



- Ans A. $X_1(1 - G)$
 B. $X_1(1 - G)G$
 C. $X_1(1 + G)$
 D. X_1G

Question ID : 63068077261
 Status : Answered
 Chosen Option : D

Q.26 Find the value of P and Q for which the given system of equations has infinitely many solutions

$$5x - 8y = 4$$

$$(P + Q)x - (P + Q + 4)y = 5P + Q$$

- Ans A. $P = \frac{-1}{3}, Q = 7$
 B. $P = \frac{1}{3}, Q = -7$
 C. $P = \frac{-1}{3}, Q = \frac{-7}{2}$
 D. $P = \frac{-1}{3}, Q = \frac{7}{2}$

Question ID : 630680541181
 Status : Not Answered
 Chosen Option : --

Q.27 सांची स्तूप की कौन सी संरचना जातकों की विभिन्न घटनाओं और बुद्ध के जीवन को दर्शाती है?

- Ans A. लोरण
 B. हर्मिका
 C. छत्री
 D. वेदिका

Question ID : 630680309130
 Status : Answered
 Chosen Option : A

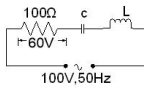
Q.28 How much is the energy gap between the valence and conduction bands in a good insulator?

- Ans A. 1 eV
 B. 0.5 eV
 C. more than 5 eV
 D. 0.3 eV

Question ID : 63068077264
 Status : Answered
 Chosen Option : C

Section : Section D

Q.1 What will be the power factor of the circuit shown below if the inductive reactance is more than the capacitive reactance at 50 Hz?



- Ans A. 0.8 lead
 B. 0.6 lag
 C. 0.6 lead
 D. 0.5 lag

Question ID : 63068077212
 Status : Answered
 Chosen Option : B

Q.2 Select the most appropriate meaning of the given proverb.

Blood is thicker than water.

- Ans A. Family relationships are always stronger than other relationships.
 B. Every person can have lucky days and favourable outcomes.
 C. Everything tastes good when you are hungry but have nothing to eat.
 D. Once you lose sight of a thing, you can forget it altogether.

Question ID : 630680350894
 Status : Answered
 Chosen Option : A

Q.3 In case of a cathode-ray oscilloscope, the deflection on the screen per unit deflection voltage is called as _____.

- Ans A. deflection ratio
 B. deflection factor
 C. deflection sensitivity
 D. deflection rate

Question ID : 63068077297
 Status : Answered
 Chosen Option : A

Q.4 At what temperature does a ferromagnetic material transit into a paramagnetic material?

- Ans A. Bragg temperature
 B. Bohr temperature
 C. Curie temperature
 D. Neel temperature

Question ID : 63068077272
 Status : Answered
 Chosen Option : C

Q.5 In a common collector arrangement, which of the following expressions gives the current amplification factor in terms of change in the emitter current, change in the collector current and change in the base current?

- Ans
- A. $\frac{\text{change in base current}}{\text{change in emitter current}}$
 - B. $\frac{\text{change in collector current}}{\text{change in emitter current}}$
 - C. $\frac{\text{change in collector current}}{\text{change in base current}}$
 - D. $\frac{\text{change in emitter current}}{\text{change in base current}}$

Question ID : 63068077256
Status : Answered
Chosen Option : D

Q.6 Which of the following was the venue of 55th National Cross-Country Championship 2021?

- Ans
- A. Amritsar
 - B. Chandigarh
 - C. Ludhiana
 - D. Patiala

Question ID : 630680134096
Status : Not Answered
Chosen Option : --

Q.7 Which of the following expressions is correct with reference to dielectric heating? [V is the voltage applied to the dielectric]

- Ans
- A. Heating $\propto V^2$
 - B. Heating $\propto V^3$
 - C. Heating $\propto V$
 - D. Heating $\propto \sqrt{V}$

Question ID : 63068077244
Status : Answered
Chosen Option : A

Q.8 A moving-coil instrument has a controlling torque of 45×10^{-6} N-m when the deflection of the pointer is 90° . What will be the controlling torque produced when the deflection is 120° ?

- Ans
- A. 60×10^{-6} N-m
 - B. 30×10^{-6} N-m
 - C. 45×10^{-6} N-m
 - D. 120×10^{-6} N-m

Question ID : 63068077296
Status : Answered
Chosen Option : A

Q.9 Solve the following equations for a, b and c.
 $a + 4b + 3c = -5$
 $3a + 2b - 3c = 4$
 $-3a + 8b + 7c = -7$

- Ans
- A. $a = -1, b = \frac{1}{2}, c = -2$
 - B. $a = -3, b = -4, c = 2$
 - C. $a = 2, b = -1, c = 3$
 - D. $a = \frac{1}{4}, b = -2, c = 1$

Question ID : 630680517602
Status : Answered
Chosen Option : A

Q.10 In a p-n junction diode, once the applied forward voltage exceeds the _____ voltage, the current starts increasing rapidly.

- Ans A. saturation
 B. breakdown
 C. knee
 D. cut-off

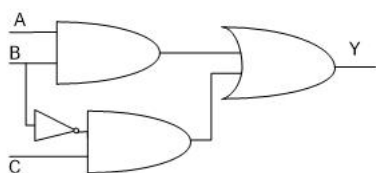
Question ID : 63068077248
 Status : Answered
 Chosen Option : C

Q.11 Who among the following founded the Visva-Bharati University in 1921?

- Ans A. Mahatma Gandhi
 B. Rabindranath Tagore
 C. Syed Ahmed Khan
 D. Madan Mohan Malviya

Question ID : 630680118815
 Status : Answered
 Chosen Option : B

Q.12 What is the output 'Y' in the circuit shown below?



- Ans A. $Y = A\bar{B} + C$
 B. $Y = AB + \bar{B}\bar{C}$
 C. $Y = A\bar{B}C$
 D. $Y = AB + \bar{B}C$

Question ID : 63068077287
 Status : Answered
 Chosen Option : D

Q.13 Which of the following is NOT a part of a separately excited generator?

- Ans A. Series field winding
 B. Commutator
 C. Shunt field winding
 D. Armature winding

Question ID : 63068077215
 Status : Answered
 Chosen Option : A

Q.14 The phasor current in the circuit consisting of a 2 H inductor is of $2\angle -50^\circ$ A, when excited from a sinusoidally varying voltage of angular frequency 100 rad/s. What is the voltage applied?

- Ans A. $400\angle -140^\circ$ V
 B. $200\angle -50^\circ$ V
 C. $400\angle 40^\circ$ V
 D. $200\angle 40^\circ$ V

Question ID : 630680775227
 Status : Answered
 Chosen Option : A

Q.15 The separation between the conduction band and the valence band on an energy level diagram is called _____.

- Ans A. prohibited gap
 B. forbidden gap
 C. inhibited gap
 D. impeded gap

Question ID : 63068077265
 Status : Answered
 Chosen Option : B

Q.16 A, B, C, D, E, F और G एक वृत्ताकार मेज के चारों ओर केंद्र की ओर अभिमुख होकर बैठे हैं। D के दाएँ से गिनने पर, D और C के बीच केवल एक व्यक्ति बैठा है। C और B के बीच केवल एक व्यक्ति बैठा है। D और F के बीच में केवल एक व्यक्ति बैठा है। G और B के बीच केवल दो व्यक्ति बैठे हैं। E और F के बीच केवल एक व्यक्ति बैठा है। A के दाएँ से तीसरे स्थान पर कौन बैठा है?

- Ans A. F
 B. B
 C. C
 D. G

Question ID : 630680532578
 Status : Not Answered
 Chosen Option : --

Q.17 An open-circuit test is conducted on the LV side of a 11 kV/110 V, single-phase transformer with its 11 kV winding open. The input power measured by using a wattmeter is 110 W. If the test is conducted on the HV side of the transformer with the 110 V side open, what will be the input power?

- Ans A. 110 W
 B. 11,000 W
 C. 1100 W
 D. 11 W

Question ID : 63068077231
 Status : Answered
 Chosen Option : A

Q.18 The flux produced by the primary exciting current of a power transformer depends _____.

- Ans A. only on the frequency of voltage applied to the primary
 B. on both the voltage applied to the primary and its frequency
 C. only on the voltage applied to the primary
 D. on the load

Question ID : 630680775232
 Status : Answered
 Chosen Option : B

Q.19 Which of the following is NOT primarily a traditional gharana in the Kathak dance form?

- Ans A. Jaipur
 B. Benaras
 C. Lucknow
 D. Batala

Question ID : 630680403205
 Status : Answered
 Chosen Option : D

Q.20 तीन लड़कियाँ P, Q, और R एक काम को क्रमशः 18 घंटे, 21 घंटे, और 14 घंटे में कर सकती हैं। वे दिए गए क्रम में एक के बाद एक प्रत्येक एक घंटे काम करती हैं। R द्वारा किए गए काम का प्रतिशत क्या है?

- Ans A. $35\frac{5}{19}\%$
 B. $28\frac{7}{18}\%$
 C. $38\frac{2}{21}\%$
 D. $37\frac{3}{20}\%$

Question ID : 630680588898
 Status : Not Answered
 Chosen Option : --

Q.21 What is the maximum reverse voltage that can be applied to a p-n junction, without causing any damage to the junction, called?

- Ans A. Peak inverse voltage
 B. Pinch voltage
 C. Peak recovery voltage
 D. Knee voltage

Question ID : 63068077254
 Status : Answered
 Chosen Option : A

Q.22 Select the most appropriate verb to fill in the blank.
The woodcutter picked up the branches that _____ to the ground.

- Ans A. fell
 B. was falling
 C. have fallen
 D. falls

Question ID : 630680332747
Status : Answered
Chosen Option : B

Q.23 Which of the following losses in a transformer can be treated as variable loss(es) when it operates at a fixed applied voltage and frequency?
1. Copper loss
2. Eddy current loss
3. Hysteresis loss

- Ans A. Only 1
 B. Only 1 and 3
 C. Only 1 and 2
 D. Only 2

Question ID : 630680777226
Status : Answered
Chosen Option : A

Q.24 A 4 kVA transformer has iron loss of 200 W and full-load copper loss of 800 W. What is the kVA of the transformer at which it operates at the maximum efficiency?

- Ans A. 4 kVA
 B. 1 kVA
 C. 8 kVA
 D. 2 kVA

Question ID : 630680777230
Status : Answered
Chosen Option : D

Q.25 What is a drainage basin?

- Ans A. Area drained by more than two rivers
 B. Area drained by two river systems
 C. Watershed
 D. Area drained by a single river system

Question ID : 630680302669
Status : Answered
Chosen Option : B

Q.26 Which of the following statements is/are true?
1. In PMMC meters, the scale is uniform.
2. In PMMC meters, the torque-to-weight ratio is low, which gives higher accuracy.

- Ans A. Neither 1 nor 2
 B. Only 1
 C. Only 2
 D. Both 1 and 2

Question ID : 630680777289
Status : Answered
Chosen Option : D

Q.27 What is the inductance offered by a coil of 100 turns in a magnetic circuit whose reluctance to flux is 100×10^6 AT/Wb?

- Ans A. 1 mH
 B. 0.1 mH
 C. 10 mH
 D. 0.01 mH

Question ID : 630680777206
Status : Answered
Chosen Option : B

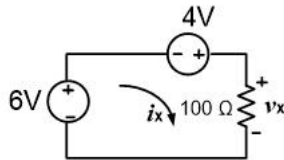
Q.28 What will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '+' are interchanged?
 $3 + 88 \times 2 - 130 + 40 = ?$

- Ans
- A. 220
 - B. 224
 - C. 198
 - D. 222

Question ID : 630680404380
 Status : Answered
 Chosen Option : D

Section : Section E

Q.1 What are the values of i_x and v_x in the circuit shown below?



- Ans
- A. 100 mA and 10 V, respectively
 - B. 10 mA and 10 V, respectively
 - C. 20 mA and 2 V, respectively
 - D. 200 mA and 2 V, respectively

Question ID : 63068077201
 Status : Answered
 Chosen Option : A

Q.2 In May 2022, for which of the following missions did the ISRO successfully test large human-rated solid rocket booster HS 200?

- Ans
- A. Aditya Mission
 - B. Shukrayaan Mission
 - C. Gaganyaan Mission
 - D. Chandrayaan Mission

Question ID : 630680262468
 Status : Answered
 Chosen Option : C

Q.3 A power transformer is operating with a maximum flux density of 1.25 Wb/m^2 . The hysteresis loss in the magnetic material is proportional to ____.

- Ans
- A. $1.25^{1.6}$
 - B. $1.25^{2.5}$
 - C. 1.25^2
 - D. $1.25^{1.2}$

Question ID : 63068077268
 Status : Answered
 Chosen Option : A

Q.4 What is the slip of the three-phase induction motor at standstill?

- Ans
- A. 50%
 - B. 100%
 - C. 10%
 - D. 5%

Question ID : 630680775229
 Status : Answered
 Chosen Option : B

Q.5 In a common base connection, the emitter current is 1mA. If the emitter circuit is open, the collector current is 100 μ A and current amplification factor is 0.9. What will be the total collector current?

- Ans
- A. 100 mA
 - B. 10 mA
 - C. 0.1 mA
 - D. 1 mA

Question ID : 63068077251
Status : Answered
Chosen Option : D

Q.6 In which century was Sikhism founded?

- Ans
- A. 16th century
 - B. 14th century
 - C. 13th century
 - D. 15th century

Question ID : 63068087331
Status : Answered
Chosen Option : C

Q.7 Which of the following statements with reference to electrodynamic wattmeters is/are true?

1. Electrodynamic wattmeters have a low torque-to-weight ratio and hence, they have low sensitivity.
2. Low torque-to-weight ratio gives increased frictional losses.

- Ans
- A. Only 1
 - B. Both 1 and 2
 - C. Neither 1 nor 2
 - D. Only 2

Question ID : 63068077293
Status : Answered
Chosen Option : B

Q.8 In a series resonant circuit, the power delivered to the load at resonance is 50 W. What will be the power delivered when the resultant reactance of the circuit is equal to the resistance?

- Ans
- A. 100 W
 - B. 12.5 W
 - C. 50 W
 - D. 25 W

Question ID : 630680775298
Status : Answered
Chosen Option : D

Q.9 निम्नलिखित में से कौन-सी एजेंसी स्वयं सहायता समूहों का सहायता प्रदान करती है?

- Ans
- A. यूटीआई (UTI)
 - B. एडीबी (ADB)
 - C. आईसीआईसीआई (ICICI)
 - D. डीडब्ल्यूसीआरए (DWCR)

Question ID : 630680314395
Status : Not Answered
Chosen Option : --

Q.10 In a voltmeter a current of 1 μ A gives a full scale deflection. What is the sensitivity of the meter?

- Ans
- A. 2 Ω/V
 - B. 1 M Ω/V
 - C. 2 M Ω/V
 - D. 1 k Ω/V

Question ID : 63068077290
Status : Answered
Chosen Option : B

Q.11 How are the primary and secondary windings of a two-winding transformer linked?

- Ans
- A. Conductively
 - B. Thermally
 - C. Inductively
 - D. Both conductively and inductively

Question ID : 630680777222
Status : Answered
Chosen Option : C

Q.12 A 210 V shunt motor takes an armature current of 100 A and runs at a speed of 1000 rpm at a certain load. The armature resistance is 0.1 Ω. What is the armature torque (in N-m)?

- Ans
- A. $\frac{1200}{\pi}$
 - B. $\frac{300}{\pi}$
 - C. $\frac{600}{\pi}$
 - D. $\frac{900}{\pi}$

Question ID : 630680777221
Status : Answered
Chosen Option : C

Q.13 Select the most appropriate ANTONYM of the highlighted word.

Mr. Justin's courage in the Ukraine war could not win him a promotion.

- Ans
- A. bravery
 - B. meekness
 - C. mettle
 - D. valor

Question ID : 630680499640
Status : Answered
Chosen Option : B

Q.14 एक कमरे की लंबाई 12 m है और इसकी ऊँचाई 8 m है। कमरे की चौड़ाई कितनी है, यदि इसके सबसे लंबे विकर्ण की लंबाई 17 m है?

- Ans
- A. 11 m
 - B. 10 m
 - C. 9 m
 - D. 7 m

Question ID : 630680179135
Status : Answered
Chosen Option : A

Q.15 Which AC bridge can be used for measurement of the relative permeability?

- Ans
- A. Anderson's bridge
 - B. Owen's bridge
 - C. Schering bridge
 - D. Maxwell's bridge

Question ID : 630680777298
Status : Answered
Chosen Option : C

Q.16 उस समुच्चय का चयन कीजिए जिसमें संख्याएँ ठीक उसी प्रकार संबंधित हों, जैसे दिए गए समुच्चयों की संख्याएँ संबंधित हैं।

(नोट: संख्याओं को उनके घटक अंकों में तोड़े बिना, पूर्ण संख्याओं पर ही संक्रियाएँ की जानी चाहिए। उदाहरण के लिए 13 को लीजिए - 13 पर संक्रियाएँ जैसे कि 13 में जोड़ना/घटाना/गुणा करना, की जा सकती हैं। 13 को 1 और 3 में तोड़ने और फिर 1 और 3 पर गणितीय संक्रियाएँ करने की अनुमति नहीं है।)

4 – 24 – 48 – 68

8 – 28 – 56 – 76

- Ans
- A. 9 – 39 – 78 – 98
 - B. 20 – 40 – 80 – 90
 - C. 12 – 32 – 64 – 84
 - D. 13 – 52 – 104 – 114

Question ID : 630680467184
Status : Not Answered
Chosen Option : --

Q.17 Select the most appropriate option to fill in the blank.

The chair _____ me is occupied by a senior employee.

- Ans
- A. beside of
 - B. besides
 - C. beside
 - D. besides of

Question ID : 63068066109
Status : Answered
Chosen Option : D

Q.18 A 4-bit up or down counter is also known as a _____ counter.

- Ans
- A. MOD-4
 - B. MOD-8
 - C. MOD-16
 - D. MOD-32

Question ID : 63068077286
Status : Answered
Chosen Option : C

Q.19 How many wattmeters are enough to measure power in a three-phase, four-wire balanced, star-connected load?

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

Question ID : 630680775222
Status : Answered
Chosen Option : B

Q.20 यदि किसी पुस्तक के अंकित मूल्य पर 10% की छूट दी जाती है, तो पुस्तक विक्रेता को 20% का लाभ होता है। यदि छूट को बढ़ाकर 12.5% कर दिया जाए, तो पुस्तक विक्रेता का लाभ प्रतिशत कितना होगा?

- Ans
- A. $16\frac{2}{3}\%$
 - B. $17\frac{2}{3}\%$
 - C. $18\frac{2}{3}\%$
 - D. $15\frac{2}{3}\%$

Question ID : 630680239475
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.21 K, L, M, N, U, V और X एक वृत्ताकार मेज के चारों ओर केंद्र की ओर अभिमुख होकर बैठे हैं। U और L के बीच केवल K बैठा है। L, V के बाएँ से तीसरे स्थान पर बैठा है। X, V के ठीक बाएँ बैठा है। N, L का निकटतम पड़ोसी नहीं है। M के बाएँ से चौथे स्थान पर कौन बैठा है?

- Ans
- A. L
 - B. X
 - C. U
 - D. N

Question ID : 630680544686
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.22 1905 में बंगाल का विभाजन किस वायसराय के शासनकाल में प्रभावी हुआ था?

- Ans
- A. लॉर्ड एलिन II
 - B. लॉर्ड कर्जन
 - C. लॉर्ड मिंटो II
 - D. लॉर्ड लैसडाउन

Question ID : 630680275819
Status : Answered
Chosen Option : B

Q.23 What is the average power delivered to an impedance $Z_L = 8 - j11 \Omega$, by a current $i = 5 \sin(314t - 20^\circ)$?

- Ans
- A. 50 W
 - B. 100 W
 - C. 400 W
 - D. 200 W

Question ID : 630680777204
Status : Answered
Chosen Option : B

Q.24 Which of the following types of motor is generally preferred for use in lathes?

- Ans
- A. Capacitor start type induction motor
 - B. Squirrel-cage induction motor
 - C. DC series motor
 - D. Differentially compounded motor

Question ID : 630680777242
Status : Answered
Chosen Option : B

Q.25 When a small amount of _____ impurity is added to a pure semiconductor, it becomes a p-type semiconductor.

- Ans
- A. arsenic
 - B. phosphorus
 - C. gallium
 - D. antimony

Question ID : 630680777250
Status : Answered
Chosen Option : C

Q.26 Which of the following options represents transistor configurations with very high input and output impedances, respectively?

- Ans
- A. Common emitter and common collector
 - B. Common collector and common base
 - C. Common collector and common emitter
 - D. Common base and common emitter

Question ID : 630680777257
Status : Answered
Chosen Option : B

Q.27 At what power factor of the load does zero regulation occur in a single-phase transformer, irrespective of magnitude of the load on the transformer?

(Consider that ' R_{eq} ' is the equivalent resistance; ' X_{eq} ' is the equivalent reactance and ' Z_{eq} ' is the equivalent impedance of the transformer referred to the secondary.)

Ans

✓ A. $\frac{X_{eq}}{Z_{eq}}$ leading

✗ B. $\frac{R_{eq}}{X_{eq}}$ leading

✗ C. $\frac{R_{eq}}{Z_{eq}}$ lagging

✗ D. $\frac{R_{eq}}{X_{eq}}$ lagging

Question ID : 630680775220

Status : Answered

Chosen Option : C

Q.28 What is the overall transfer function of a negative feedback system whose forward path transfer function is $G(s)$ and feedback transfer function is $H(s)$?

Ans

✗ A. $\frac{G(s)H(s)}{1 + H(s)}$

✓ B. $\frac{G(s)}{1 + G(s)H(s)}$

✗ C. $\frac{G(s)H(s)}{1 + G(s)H(s)}$

✗ D. $\frac{G(s)}{1 + H(s)}$

Question ID : 630680777262

Status : Answered

Chosen Option : B