



Bihar State Power (Holding) Company Limited

बिहार स्टेट पावर (होल्डिंग) कंपनी लिमिटेड

Application sequence No.	
Participant ID	
Participant Name	
Test Center Name	
Test Date	16/06/2025
Test Time	9:00 AM - 10:30 AM
Subject	Junior Electrical Engineer (Electrical)

Section : General Knowledge

Q.1 निम्नलिखित में से किसको सबसे बाहरी हिमालय के नाम से जाना जाता है?

- Ans ☒ 1. लद्दाख
☒ 2. शिवालिक
☒ 3. कैलाश
☒ 4. ज़ास्कर

Question Type : MCQ

Question ID : 441009217982

Option 1 ID : 441009855863

Option 2 ID : 441009855861

Option 3 ID : 441009855862

Option 4 ID : 441009855860

Status : Answered

Chosen Option : 3

Q.2 निम्नलिखित में से कौन-सा, मौलिक कर्तव्य नहीं है?

- Ans ☒ 1. विधि के अनुसार करों का भुगतान करना
☒ 2. सार्वजनिक संपत्ति की सुरक्षा करना
☒ 3. संविधान का पालन करना
☒ 4. देश की रक्षा करना और राष्ट्रीय सेवा करना

Question Type : MCQ

Question ID : 441009204992

Option 1 ID : 441009806213

Option 2 ID : 441009806211

Option 3 ID : 441009806210

Option 4 ID : 441009806212

Status : Answered

Chosen Option : 1

Q.3 एशियाई चीता को भारत में वर्ष _____ में विलुप्त घोषित किया गया था।

Ans ☒ 1. 1952

☒ 2. 1910

☒ 3. 1975

☒ 4. 1940

Question Type : MCQ

Question ID : 441009217978

Option 1 ID : 441009855844

Option 2 ID : 441009855846

Option 3 ID : 441009855845

Option 4 ID : 441009855847

Status : Answered

Chosen Option : 3

Q.4 निम्नलिखित में से किसने अकबर के विरुद्ध पानीपत की दूसरी लड़ाई लड़ी थी?

Ans ☒ 1. महाराणा प्रताप

☒ 2. हेमचंद्र विक्रमादित्य

☒ 3. राणा सांगा

☒ 4. राजा भारमल

Question Type : MCQ

Question ID : 441009205301

Option 1 ID : 441009807427

Option 2 ID : 441009807425

Option 3 ID : 441009807428

Option 4 ID : 441009807426

Status : Answered

Chosen Option : 1

Q.5 _____ से निपटने के लिए भारत सरकार द्वारा चक्षु पोर्टल (Chakshu Portal) लॉन्च किया गया था।

Ans ☒ 1. अवैध रेत खनन

☒ 2. माओवादी हमलों

☒ 3. अवैध कोयला खनन

☒ 4. साइबर धोखाधड़ी

Question Type : MCQ

Question ID : 441009332571

Option 1 ID : 4410091296302

Option 2 ID : 4410091296303

Option 3 ID : 4410091296300

Option 4 ID : 4410091296301

Status : Answered

Chosen Option : 4

Q.6 मई 2025 में किस भारतीय शहर को विश्व स्वास्थ्य संगठन (WHO) के आयु-अनुकूल शहरों और समुदायों का वैश्विक नेटवर्क (GNAFCC) में शामिल किया गया?

- Ans
- ☒ 1. पुणे
 - ☒ 2. मैसूर
 - ☒ 3. कोझिकोड
 - ☒ 4. तिरुवनंतपुरम

Question Type : MCQ

Question ID : 441009258136

Option 1 ID : 4410091006383

Option 2 ID : 4410091006381

Option 3 ID : 4410091006382

Option 4 ID : 4410091006380

Status : Answered

Chosen Option : 3

Q.7 निम्नलिखित में से किसने सविनय अवज्ञा आंदोलन के दौरान पूर्वी तट पर वेदारण्यम नमक मार्च (Vedaranyam Salt March) का नेतृत्व किया था?

- Ans
- ☒ 1. सरदार पटेल जिन्होंने गुजरात क्षेत्र में किसानों को संगठित किया
 - ☒ 2. सी राजगोपालाचारी जिन्होंने पूर्वी तट पर मार्च का आयोजन किया
 - ☒ 3. जवाहरलाल नेहरू जिन्होंने इलाहाबाद से कानपुर तक मार्च किया
 - ☒ 4. सुभाष चंद्र बोस जिन्होंने बंगाल क्षेत्र में विरोध प्रदर्शनों का नेतृत्व किया

Question Type : MCQ

Question ID : 441009205384

Option 1 ID : 441009807760

Option 2 ID : 441009807759

Option 3 ID : 441009807757

Option 4 ID : 441009807758

Status : Answered

Chosen Option : 1

Q.8 13 मई 2025 तक प्राप्त जानकारी के अनुसार, किस भारतीय राज्य ने सभी सरकारी समर्थित निर्माण परियोजनाओं के लिए नदी की रेत के बजाय कृत्रिम रेत (m-sand) का उपयोग करना अनिवार्य कर दिया है?

- Ans
- ☒ 1. महाराष्ट्र
 - ☒ 2. गोवा
 - ☒ 3. तमिलनाडु
 - ☒ 4. केरल

Question Type : MCQ

Question ID : 441009258062

Option 1 ID : 4410091006086

Option 2 ID : 4410091006087

Option 3 ID : 4410091006084

Option 4 ID : 4410091006085

Status : Answered

Chosen Option : 2

Q.9 साहित्य, विज्ञान, कला और सामाजिक सेवा में उत्कृष्टता के आधार पर राष्ट्रपति द्वारा राज्यसभा के कितने सदस्यों को मनोनीत किया जाता है?

- Ans ☒ 1. 20
☒ 2. 12
☒ 3. 15
☒ 4. 10

Question Type : MCQ

Question ID : 441009204300

Option 1 ID : 441009803697

Option 2 ID : 441009803695

Option 3 ID : 441009803696

Option 4 ID : 441009803694

Status : Answered

Chosen Option : 2

Q.10 निम्नलिखित में से कौन-से दो देश 'गोल्डन ड्रैगन-2025 (Golden Dragon-2025)' नामक संयुक्त सैन्य अभ्यास आयोजित कर रहे हैं?

- Ans ☒ 1. चीन और कंबोडिया
☒ 2. चीन और थाईलैंड
☒ 3. चीन और वियतनाम
☒ 4. भारत और कंबोडिया

Question Type : MCQ

Question ID : 441009332619

Option 1 ID : 4410091296493

Option 2 ID : 4410091296495

Option 3 ID : 4410091296492

Option 4 ID : 4410091296494

Status : Answered

Chosen Option : 1

Section : Logical Reasoning

Q.11 KIWI अंग्रेजी वर्णमाला क्रम के आधार पर NLZL से एक निश्चित तरीके से संबंधित है। उसी तरह SHAKE, VKDNH से संबंधित है। उसी तर्क का अनुसरण करते हुए, MONSTER दिए गए विकल्पों में से किससे संबंधित है?

- Ans ☒ 1. PRQUWHV
☒ 2. PRQVMHU
☒ 3. PRQVWHV
☒ 4. PRQVWHU

Question Type : MCQ

Question ID : 441009332859

Option 1 ID : 4410091297431

Option 2 ID : 4410091297433

Option 3 ID : 4410091297434

Option 4 ID : 4410091297432

Status : Answered

Chosen Option : 4

Q.12 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g., 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

11 – 22 – 32 – 52; 17 – 34 – 44 – 64

- Ans ☒ 1. 6 – 18 – 24 – 44
☒ 2. 4 – 16 – 26 – 36
☒ 3. 8 – 16 – 26 – 46
☒ 4. 2 – 6 – 16 – 46

Question Type : **MCQ**

Question ID : **441009216093**

Option 1 ID : **441009848413**

Option 2 ID : **441009848412**

Option 3 ID : **441009848414**

Option 4 ID : **441009848411**

Status : **Answered**

Chosen Option : **3**

Q.13 अंग्रेजी वर्णमाला क्रम के आधार पर, निम्नलिखित चार अक्षर-समूह युग्मों में से तीन किसी निश्चित तरीके से एक समान हैं और इस प्रकार एक समूह बनाते हैं। कौन-सा अक्षर-समूह युग्म उस समूह से संबंधित नहीं है?

(नोट: असंगत अक्षर-समूह युग्म, अक्षर-समूह में व्यंजनों/स्वरों की संख्या या उनकी स्थिति पर आधारित नहीं है।)

- Ans ☒ 1. XW - SR
☒ 2. PO - DE
☒ 3. HG - CB
☒ 4. UT - PO

Question Type : **MCQ**

Question ID : **441009358130**

Option 1 ID : **4410091398507**

Option 2 ID : **4410091398508**

Option 3 ID : **4410091398509**

Option 4 ID : **4410091398506**

Status : **Answered**

Chosen Option : **2**

Q.14 एक निश्चित कूट भाषा में,

'A \$ B' का अर्थ है कि 'A, B की पुत्री है',
'A & B' का अर्थ है कि 'A, B का पुत्र है',
'A ≠ B' का अर्थ है कि 'A, B का पिता है' और
'A @ B' का अर्थ है कि 'A, B की बहन है'।

यदि 'W ≠ X & Y @ O \$ P' है, तो W का P से क्या संबंध है?

- Ans ☒ 1. पुत्र
☒ 2. पिता
☒ 3. पुत्री का पति
☒ 4. बहन का पति

Question Type : MCQ

Question ID : 441009358967

Option 1 ID : 4410091401867

Option 2 ID : 4410091401866

Option 3 ID : 4410091401868

Option 4 ID : 4410091401869

Status : Answered

Chosen Option : 3

Q.15 यदि 'E' का अर्थ '+' है, 'F' का अर्थ '-' है, 'G' का अर्थ '÷' है और 'H' का अर्थ 'x' है, तो निम्नलिखित समीकरण में प्रश्न-चिह्न (?) के स्थान पर क्या आएगा?

5 G 1 E 10 H 15 F 25 = ?

- Ans ☒ 1. 135
☒ 2. 140
☒ 3. 125
☒ 4. 130

Question Type : MCQ

Question ID : 441009358739

Option 1 ID : 4410091400968

Option 2 ID : 4410091400969

Option 3 ID : 4410091400966

Option 4 ID : 4410091400967

Status : Answered

Chosen Option : 4

Q.16 छह दोस्त K, M, N, P, Q और Y, उत्तर की ओर अभिमुख होकर एक पंक्ति में बैठे हैं। Q और Y के बीच केवल चार व्यक्ति बैठे हैं। Y के दाएं से दूसरे स्थान पर M बैठा है। P के ठीक बाएं पड़ोस में N बैठा है। उनमें से कौन K के ठीक दाएं पड़ोस में बैठा है?

Ans ☒ 1. N

☒ 2. Y

☒ 3. Q

☒ 4. M

Question Type : MCQ

Question ID : 441009332807

Option 1 ID : 4410091297225

Option 2 ID : 4410091297223

Option 3 ID : 4410091297226

Option 4 ID : 4410091297224

Status : Answered

Chosen Option : 2

Q.17 निम्नलिखित संख्या-युग्मों में, पहली संख्या पर कुछ गणितीय संक्रियाएं लागू करके दूसरी संख्या प्राप्त की जाती है। कौन-सी संख्याओं द्वारा X और Y को प्रतिस्थापित किया जाना चाहिए, ताकि :: के बाईं ओर की दोनों संख्याओं द्वारा अनुसरण किया जाने वाला पैटर्न, :: के दाईं ओर की दोनों संख्याओं द्वारा अनुसरण किए जाने वाले पैटर्न के समान हो?

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

X : 77 :: 22 : Y

Ans ☒ 1. X = 14 , Y = 127

☒ 2. X = 12 , Y = 107

☒ 3. X = 16 , Y = 107

☒ 4. X = 15 , Y = 137

Question Type : MCQ

Question ID : 441009215923

Option 1 ID : 441009847733

Option 2 ID : 441009847731

Option 3 ID : 441009847732

Option 4 ID : 441009847734

Status : Answered

Chosen Option : 3

Q.18 What should come in place of the question mark (?) in the given series?

-2 8 -32 128 -512 ?

Ans  1. -2052

 2. -2046

 3. 2048

 4. 2052

Question Type : **MCQ**

Question ID : **441009358726**

Option 1 ID : **4410091400916**

Option 2 ID : **4410091400914**

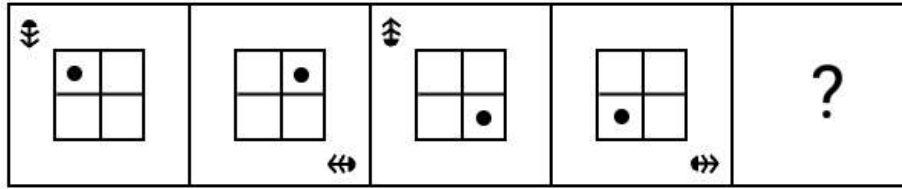
Option 3 ID : **4410091400915**

Option 4 ID : **4410091400917**

Status : **Answered**

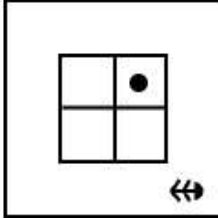
Chosen Option : **3**

Q.19 दिए गए विकल्पों में से उस आकृति का चयन कीजिए, जो निम्नलिखित श्रृंखला में प्रश्न-चिह्न (?) के स्थान पर आ सकती है।

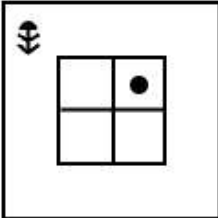


Ans

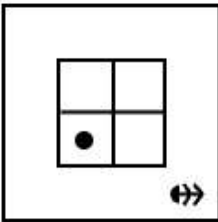
✗ 1.



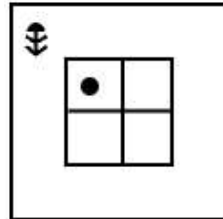
✗ 2.



✗ 3.



✓ 4.



Question Type : **MCQ**

Question ID : **441009217156**

Option 1 ID : **441009852664**

Option 2 ID : **441009852665**

Option 3 ID : **441009852666**

Option 4 ID : **441009852663**

Status : **Answered**

Chosen Option : **4**

Q.20 निम्नलिखित अक्षर, संख्या और प्रतीक श्रृंखला का संदर्भ लीजिए और नीचे दिए गए प्रश्न का उत्तर दीजिए।
गिनती केवल बाएं से दाएं की जानी है।
(नोट: सभी संख्याएँ एक-अंकीय संख्याएँ हैं।)

(बाएं) L % Q S 4 6 & Z C J 2 H % * \$ 2 T M € % \$ (दाएं)

यदि श्रृंखला से सभी अक्षर हटा दिए जाएं, तो बाएं से छठे स्थान पर निम्नलिखित में से क्या होगा?

Ans ☒ 1. &

☒ 2. 2

☒ 3. \$

☒ 4. %

Question Type : MCQ

Question ID : 441009263361

Option 1 ID : 4410091025920

Option 2 ID : 4410091025919

Option 3 ID : 4410091025921

Option 4 ID : 4410091025922

Status : Answered

Chosen Option : 2

Section : General English and Comprehension

Q.21 Parts of the following sentence have been given as options. Select the option that contains an error.

Kashish is the strongest and bold girl in the class.

Ans ☒ 1. the strongest

☒ 2. and bold girl

☒ 3. Kashish is

☒ 4. in the class

Question Type : MCQ

Question ID : 441009204627

Option 1 ID : 441009804978

Option 2 ID : 441009804979

Option 3 ID : 441009804977

Option 4 ID : 441009804980

Status : Answered

Chosen Option : 1

Q.22 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
During my childhood, I and / my siblings use to run after / drifting kites that have been cut / loose but we don't do it now.

- Ans ☒ 1. loose but we don't do it now.
- ☒ 2. my siblings use to run after
- ☒ 3. drifting kites that have been cut
- ☒ 4. During my childhood, I and

Question Type : **MCQ**

Question ID : **441009204601**

Option 1 ID : **441009804876**

Option 2 ID : **441009804874**

Option 3 ID : **441009804875**

Option 4 ID : **441009804873**

Status : **Answered**

Chosen Option : **2**

Q.23 Select the proverb that conveys the same meaning as the underlined segment in the given sentence.
Jenna and her friends were inseparable through college. They had similar interests and a passion for music.

- Ans ☒ 1. As you sow, so shall you reap.
- ☒ 2. Birds of a feather flock together.
- ☒ 3. Friends are forever.
- ☒ 4. Better late than never.

Question Type : **MCQ**

Question ID : **441009203871**

Option 1 ID : **441009801993**

Option 2 ID : **441009801992**

Option 3 ID : **441009801994**

Option 4 ID : **441009801995**

Status : **Answered**

Chosen Option : **3**

Q.24 Select the option that can be used as a one-word substitute for the given phrase.

'A person who is excessively concerned with minor details or rules'

- Ans ☒ 1. Idealist
- ☒ 2. Realist
- ☒ 3. Pedant
- ☒ 4. Pragmatist

Question Type : **MCQ**

Question ID : **441009203662**

Option 1 ID : **441009801156**

Option 2 ID : **441009801159**

Option 3 ID : **441009801158**

Option 4 ID : **441009801157**

Status : **Answered**

Chosen Option : **3**

Q.25 Select the most appropriate synonym of the given word.

Drizzle

- Ans ☒ 1. Steam
☒ 2. Pour
☒ 3. Sprint
☒ 4. Shower

Question Type : MCQ

Question ID : 441009203946

Option 1 ID : 441009802293

Option 2 ID : 441009802294

Option 3 ID : 441009802292

Option 4 ID : 441009802295

Status : Answered

Chosen Option : 4

Section : General Hindi

Q.26 नीचे दिए मुहावरे का सही अर्थ दिए गए विकल्पों में से चुनें।
चाँदी काटना

- Ans ☒ 1. खूब धन पैदा करना
☒ 2. आमदनी से अधिक खर्च करना
☒ 3. घूस का धन
☒ 4. आनंद मंगल होना

Question Type : MCQ

Question ID : 441009331477

Option 1 ID : 4410091292049

Option 2 ID : 4410091292050

Option 3 ID : 4410091292048

Option 4 ID : 4410091292051

Status : Answered

Chosen Option : 1

Q.27 तुम _____ पी रहे हो? - रिक्त स्थान के लिए उचित सर्वनाम शब्द है-

- Ans ☒ 1. कोई
☒ 2. किन्हीं
☒ 3. क्या
☒ 4. कौन

Question Type : MCQ

Question ID : 441009205600

Option 1 ID : 441009808603

Option 2 ID : 441009808604

Option 3 ID : 441009808605

Option 4 ID : 441009808602

Status : Answered

Chosen Option : 3

Q.28 'सुकर' का विलोम शब्द क्या होगा?

- Ans ☒ 1. दुष्कर
☒ 2. विफल
☒ 3. दुर्बल
☒ 4. साक्षर

Question Type : MCQ

Question ID : 441009205614

Option 1 ID : 441009808660

Option 2 ID : 441009808658

Option 3 ID : 441009808659

Option 4 ID : 441009808661

Status : Answered

Chosen Option : 2

Q.29 दिये गये वाक्यों में से कौन सा वाक्य शुद्ध है?

- Ans ☒ 1. कृषि को हमारे अर्थव्यवस्था में आधार है।
☒ 2. कृषि हमारी अर्थव्यवस्था का आधार है।
☒ 3. कृषि आधार है हमारे अर्थव्यवस्था को।
☒ 4. अर्थव्यवस्था में कृषि का आधारी है।

Question Type : MCQ

Question ID : 441009208242

Option 1 ID : 441009818582

Option 2 ID : 441009818581

Option 3 ID : 441009818579

Option 4 ID : 441009818580

Status : Answered

Chosen Option : 2

Q.30 निम्नलिखित वाक्य में से अनेकार्थी शब्द पहचानें।
तुम्हारे घर में जो अतिथि आए हैं, वे कौन लोग हैं?

- Ans ☒ 1. लोग
☒ 2. कौन
☒ 3. जो
☒ 4. अतिथि

Question Type : MCQ

Question ID : 441009288592

Option 1 ID : 4410091121361

Option 2 ID : 4410091121360

Option 3 ID : 4410091121359

Option 4 ID : 4410091121358

Status : Answered

Chosen Option : 4

Section : Basic Knowledge of Computer

Q.31 What does the '<' and '>' signify in the second form of the email address?

Ans ☒ 1. They enclose the email address

☐ 2. They separate the name and domain

☐ 3. They indicate the domain

☐ 4. They indicate the type of email address

Question Type : **MCQ**

Question ID : **441009215620**

Option 1 ID : **441009846515**

Option 2 ID : **441009846517**

Option 3 ID : **441009846516**

Option 4 ID : **441009846518**

Status : **Answered**

Chosen Option : **1**

Q.32 Who is known as the 'Father of Computers'?

Ans ☐ 1. Bill Gates

☐ 2. Steve Jobs

☒ 3. Charles Babbage

☐ 4. Alan Turing

Question Type : **MCQ**

Question ID : **441009215413**

Option 1 ID : **441009845687**

Option 2 ID : **441009845690**

Option 3 ID : **441009845689**

Option 4 ID : **441009845688**

Status : **Answered**

Chosen Option : **3**

Q.33 Ransomware virus attacks _____.

Ans ☐ 1. authentication

☐ 2. integrity

☒ 3. availability

☐ 4. confidentiality

Question Type : **MCQ**

Question ID : **441009215133**

Option 1 ID : **441009844575**

Option 2 ID : **441009844573**

Option 3 ID : **441009844574**

Option 4 ID : **441009844572**

Status : **Answered**

Chosen Option : **1**

Q.34 _____ is a type of malware that initiates by inserting a copy of itself into another program and becoming a part of it.

- Ans ☒ 1. Spyware
- ☒ 2. Virus
- ☒ 3. System program
- ☒ 4. Boot file

Question Type : MCQ
Question ID : 441009215131
Option 1 ID : 441009844565
Option 2 ID : 441009844564
Option 3 ID : 441009844567
Option 4 ID : 441009844566
Status : Answered
Chosen Option : 2

Q.35 The .xls file format has a maximum limit of how many rows in each sheet in MS Excel?

- Ans ☒ 1. 65,536 rows
- ☒ 2. 32,768 rows
- ☒ 3. 255 rows
- ☒ 4. 16,384 rows

Question Type : MCQ
Question ID : 441009215447
Option 1 ID : 441009845826
Option 2 ID : 441009845825
Option 3 ID : 441009845823
Option 4 ID : 441009845824
Status : Answered
Chosen Option : 4

Q.36 Photo Album comes under which sub-section of the Insert menu bar in an MS PowerPoint presentation?

- Ans ☒ 1. Slides
- ☒ 2. Images
- ☒ 3. Files
- ☒ 4. View

Question Type : MCQ
Question ID : 441009215274
Option 1 ID : 441009845134
Option 2 ID : 441009845133
Option 3 ID : 441009845131
Option 4 ID : 441009845132
Status : Answered
Chosen Option : 2

Q.37 Which of the following software applications is NOT a web browser?

- Ans
- ☒ 1. Mozilla Firefox
 - ☒ 2. Google Chrome
 - ☒ 3. Google
 - ☒ 4. Microsoft Edge

Question Type : MCQ

Question ID : 441009332208

Option 1 ID : 4410091294885

Option 2 ID : 4410091294883

Option 3 ID : 4410091294882

Option 4 ID : 4410091294884

Status : Answered

Chosen Option : 3

Q.38 Which of the following is the correct sequence of steps to configure a web browser's proxy settings?

- Ans
- ☒ 1. Open web browser -> Navigate to 'Settings' -> Find 'Proxy Settings' -> Enable proxy -> Enter proxy details -> Save settings
 - ☒ 2. Open web browser -> Navigate to 'Extensions' -> Find 'Proxy Settings' -> Enable proxy -> Enter proxy details -> Save settings
 - ☒ 3. Open web browser -> Navigate to 'Settings' -> Find 'Privacy Settings' -> Enable proxy -> Enter proxy details -> Save settings
 - ☒ 4. Open web browser -> Navigate to 'Help' -> Find 'Proxy Settings' -> Enable proxy -> Enter proxy details -> Save settings

Question Type : MCQ

Question ID : 441009214904

Option 1 ID : 441009843656

Option 2 ID : 441009843658

Option 3 ID : 441009843657

Option 4 ID : 441009843659

Status : Answered

Chosen Option : 4

Q.39 Which type of computer memory is typically used for the primary storage of data that the CPU needs immediate access to, and is also responsible for running applications and the operating system?

- Ans
- ☒ 1. ROM
 - ☒ 2. Cache
 - ☒ 3. Flash Memory
 - ☒ 4. RAM

Question Type : MCQ

Question ID : 441009214973

Option 1 ID : 441009843932

Option 2 ID : 441009843933

Option 3 ID : 441009843935

Option 4 ID : 441009843934

Status : Answered

Chosen Option : 4

Q.40 Which of the following options is NOT found in the Page Setup dialogue box in Microsoft Word?

- Ans ☒ 1. Font style
- ☐ 2. Margins
- ☐ 3. Page size
- ☐ 4. Line spacing

Question Type : **MCQ**

Question ID : **441009332118**

Option 1 ID : **4410091294525**

Option 2 ID : **4410091294522**

Option 3 ID : **4410091294523**

Option 4 ID : **4410091294524**

Status : **Answered**

Chosen Option : **2**

Section : **Technical Paper**

Q.41 Which of the following statements is true about finding Thévenin's equivalent resistance for circuits with both dependent and independent sources?

- Ans ☐ 1. Ideal current sources are short circuited.
- ☒ 2. R_{th} is the ratio of open-circuit voltage (V_{OC}) to short-circuit current (I_{SC}).
- ☐ 3. R_{th} is the ratio of short-circuit voltage (V_{SC}) to short-circuit current (I_{SC}).
- ☐ 4. Ideal voltage sources are open circuited.

Question Type : **MCQ**

Question ID : **441009271396**

Option 1 ID : **4410091054419**

Option 2 ID : **4410091054420**

Option 3 ID : **4410091054422**

Option 4 ID : **4410091054421**

Status : **Answered**

Chosen Option : **2**

Q.42 Which type of cooling method is typically used for very large transformers, such as those used in high-voltage transmission lines?

- Ans ☐ 1. Air-cooled type
- ☐ 2. Water-cooled type with direct water immersion
- ☐ 3. Self-cooled type with natural convection
- ☒ 4. Oil-immersed, water-cooled type

Question Type : **MCQ**

Question ID : **441009258220**

Option 1 ID : **4410091006720**

Option 2 ID : **4410091006721**

Option 3 ID : **4410091006723**

Option 4 ID : **4410091006722**

Status : **Answered**

Chosen Option : **4**

Q.43 When the stator of a synchronous motor is fed with AC, high-speed rotating magnetic force appears around the stator. The rotor is attracted initially in one direction and then in the other.

The torque developed in the motor in the above-mentioned condition will be _____.

Ans ☒ 1. zero starting torque

☒ 2. no pull-out torque

☒ 3. high running torque

☒ 4. high starting torque

Question Type : MCQ

Question ID : 441009258354

Option 1 ID : 4410091007256

Option 2 ID : 4410091007258

Option 3 ID : 4410091007259

Option 4 ID : 4410091007257

Status : Answered

Chosen Option : 4

Q.44 In case of class B commutation or resonant-pulse commutation with $L = 5 \mu\text{H}$ and $C = 20 \mu\text{F}$ with the initial voltage across the capacitor (V_s) = 230 V, what will be the conduction time for an auxiliary thyristor?

Ans ☒ 1. 31.41 μs

☒ 2. 6.57 μs

☒ 3. 56.00 μs

☒ 4. 0.23 μs

Question Type : MCQ

Question ID : 441009271281

Option 1 ID : 4410091053961

Option 2 ID : 4410091053960

Option 3 ID : 4410091053962

Option 4 ID : 4410091053959

Status : Answered

Chosen Option : 2

Q.45 In a series RLC circuit, the bandwidth is 500 rad/s. If the value of L is 0.5 H, then R = _____.

Ans ☒ 1. 125 Ω

☒ 2. 500 Ω

☒ 3. 250 Ω

☒ 4. 1000 Ω

Question Type : MCQ

Question ID : 441009271390

Option 1 ID : 4410091054397

Option 2 ID : 4410091054398

Option 3 ID : 4410091054396

Option 4 ID : 4410091054395

Status : Answered

Chosen Option : 3

Q.46 Which of the following options is most accurate about the controlling of the torque in a Current Source Inverter Controlled AC drive?

- Ans ☒ 1. By the variation of the value of DC link voltage
- ☒ 2. By variation of DC link voltage, DC link current and DC link Inductance
- ☒ 3. By the variation of DC link current and of DC link voltage
- ☒ 4. By the variation of DC link current

Question Type : **MCQ**

Question ID : **441009258369**

Option 1 ID : **4410091007317**

Option 2 ID : **4410091007319**

Option 3 ID : **4410091007318**

Option 4 ID : **4410091007316**

Status : **Answered**

Chosen Option : **2**

Q.47 Identify the correct sequence of the different phases of a project management life cycle.

- Ans ☒ 1. Initial phase - Execution and monitoring phase - Planning phase
- ☒ 2. Initial phase - Planning phase - Execution and monitoring phase - Closeout phase
- ☒ 3. Planning phase - Execution and monitoring phase - Closeout phase - Initial phase
- ☒ 4. Initial phase - Execution and monitoring phase - Planning phase - Closeout phase

Question Type : **MCQ**

Question ID : **441009222115**

Option 1 ID : **441009870713**

Option 2 ID : **441009870711**

Option 3 ID : **441009870714**

Option 4 ID : **441009870712**

Status : **Answered**

Chosen Option : **2**

Q.48 The EMF in volts induced in a coil of transformer with 100 turns when the magnetic flux changes from 0.1 Wb to 0.25 Wb in 0.1 sec, will be _____.

- Ans ☒ 1. 100 V
- ☒ 2. 150 V
- ☒ 3. 200 V
- ☒ 4. 250 V

Question Type : **MCQ**

Question ID : **441009258228**

Option 1 ID : **4410091006752**

Option 2 ID : **4410091006753**

Option 3 ID : **4410091006754**

Option 4 ID : **4410091006755**

Status : **Answered**

Chosen Option : **2**

Q.49 What is the key characteristic of a do-while loop in Embedded C?

- Ans ☒ 1. The condition is checked before entering the loop.
- ☒ 2. The loop will run indefinitely without a condition.
- ☒ 3. The loop is guaranteed to execute at least once.
- ☒ 4. The do keyword is not used in embedded programming.

Question Type : **MCQ**

Question ID : **441009271181**

Option 1 ID : **4410091053559**

Option 2 ID : **4410091053560**

Option 3 ID : **4410091053561**

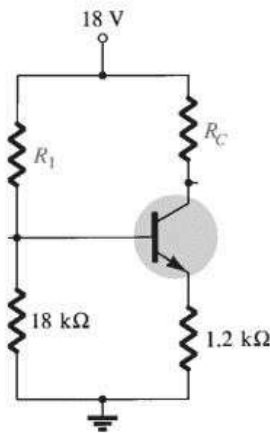
Option 4 ID : **4410091053562**

Status : **Answered**

Chosen Option : **1**

Q.50 Determine the value of R_C resistor for the voltage divider bias circuit shown below.

(Assume $I_C = I_E$.)



$I_{CQ} = 2 \text{ mA}$ and $V_{CEQ} = 10 \text{ V}$,

- Ans ☒ 1. 3 kΩ
- ☒ 2. 2.5 kΩ
- ☒ 3. 2 kΩ
- ☒ 4. 2.8 kΩ

Question Type : **MCQ**

Question ID : **441009267384**

Option 1 ID : **4410091038787**

Option 2 ID : **4410091038786**

Option 3 ID : **4410091038784**

Option 4 ID : **4410091038785**

Status : **Answered**

Chosen Option : **4**

Q.51 A generating station supplies load to four regions, whose peak loads are 12 MW, 8 MW, 13 MW, and 7 MW, respectively. Find the number of generator units required if the diversity factor at the station is 2. (Consider each generating unit to be 1 MW.)

- Ans ☒ 1. 10
☒ 2. 21
☒ 3. 40
☒ 4. 20

Question Type : **MCQ**

Question ID : **441009266320**

Option 1 ID : **4410091034670**

Option 2 ID : **4410091034671**

Option 3 ID : **4410091034668**

Option 4 ID : **4410091034669**

Status : **Answered**

Chosen Option : **4**

Q.52 What is the construction device parameter (k) for an n – channel enhancement MOSFET if the drain current (I_D) is 72 mA when the gate – to – source voltage ($V_{GS(0)}$) is 2 V?

- Ans ☒ 1. 2 mA/V²
☒ 2. 1 mA/V²
☒ 3. 3 mA/V²
☒ 4. 4 mA/V²

Question Type : **MCQ**

Question ID : **441009267358**

Option 1 ID : **4410091038681**

Option 2 ID : **4410091038680**

Option 3 ID : **4410091038682**

Option 4 ID : **4410091038683**

Status : **Answered**

Chosen Option : **1**

Q.53 Which of the following alloys is used for heating elements that operate at low temperatures and require a nearly zero resistance temperature coefficient?

- Ans ☒ 1. Iron chromium aluminium alloy
☒ 2. Nickel-chromium alloy
☒ 3. Nickel-chromium iron alloy
☒ 4. Nickel copper alloy

Question Type : **MCQ**

Question ID : **441009266915**

Option 1 ID : **4410091037006**

Option 2 ID : **4410091037004**

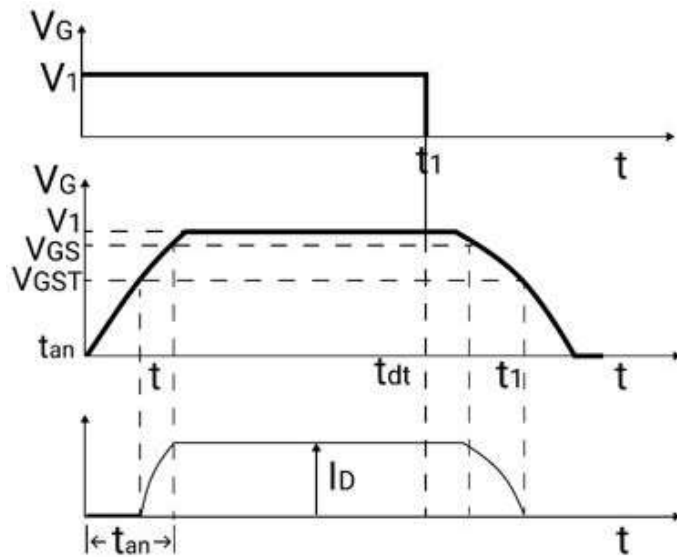
Option 3 ID : **4410091037005**

Option 4 ID : **4410091037007**

Status : **Answered**

Chosen Option : **3**

Q.54 From the figure given below, identify the suitable condition to turn off the MOSFET.



Switching waveforms for power MOSFET

(Given V_{GS} is Gate source voltage, V_{GST} is Gate Threshold Voltage and I_{GST} is Gate Threshold Current)

- Ans ☒ 1. V_{GS} is zero
☒ 2. $V_{GS} \leq V_{GST}$
☒ 3. V_{GST} is infinite
☒ 4. $V_{GS} \leq I_{GST}$

Question Type : MCQ

Question ID : 441009271278

Option 1 ID : 4410091053949

Option 2 ID : 4410091053948

Option 3 ID : 4410091053950

Option 4 ID : 4410091053947

Status : Answered

Chosen Option : 2

Q.55 Copper is an ideal material for overhead lines owing to its high electrical conductivity and _____.

- Ans ☒ 1. lower tensile strength
☒ 2. low cost
☒ 3. high flexibility
☒ 4. greater tensile strength

Question Type : MCQ

Question ID : 441009258266

Option 1 ID : 4410091006902

Option 2 ID : 4410091006903

Option 3 ID : 4410091006900

Option 4 ID : 4410091006901

Status : Answered

Chosen Option : 2

Q.56 Which of the following is correct with reference to the transformer core?

- Ans** ☒ 1. It is used to provide magnetic coupling between primary and secondary windings.
- ☒ 2. It is used to provide magnetic and mechanical coupling between primary and secondary windings.
- ☒ 3. It is used to provide electric coupling between primary and secondary windings.
- ☒ 4. It is used to provide mechanical coupling between primary and secondary windings.

Question Type : **MCQ**

Question ID : **441009258240**

Option 1 ID : **4410091006800**

Option 2 ID : **4410091006802**

Option 3 ID : **4410091006803**

Option 4 ID : **4410091006801**

Status : **Answered**

Chosen Option : **1**

Q.57 Why is transformer core steel typically manufactured with a high silicon content and sometimes heat-treated?

- Ans** ☒ 1. To achieve high permeability and reduce hysteresis loss at typical operating flux densities
- ☒ 2. To reduce eddy current losses and increase electrical conductivity
- ☒ 3. To improve mechanical strength and allow for larger air gaps in the core
- ☒ 4. To increase core saturation and enhance thermal stability

Question Type : **MCQ**

Question ID : **441009258218**

Option 1 ID : **4410091006714**

Option 2 ID : **4410091006712**

Option 3 ID : **4410091006715**

Option 4 ID : **4410091006713**

Status : **Answered**

Chosen Option : **2**

Q.58 How can the rate of deceleration during dynamic braking of a wound-rotor induction motor be changed?

- Ans** ☒ 1. By increasing the frequency of the supply
- ☒ 2. By adding an external resistance to the DC supply system
- ☒ 3. By increasing the number of poles
- ☒ 4. By adding an external resistance to the rotor winding

Question Type : **MCQ**

Question ID : **441009258348**

Option 1 ID : **4410091007234**

Option 2 ID : **4410091007232**

Option 3 ID : **4410091007235**

Option 4 ID : **4410091007233**

Status : **Answered**

Chosen Option : **2**

Q.59 Calculate the input bias currents at each input of an OP-AMP which has the input offset current $I_{IO} = 5 \text{ nA}$ and the average bias current $I_{IB} = 30 \text{ nA}$

- Ans ☒ 1. 35 nA and 25 nA
☒ 2. 35 nA and 27.5 nA
☒ 3. 32.5 nA and 27.5 nA
☒ 4. 32.5 nA and 25 nA

Question Type : **MCQ**

Question ID : **441009267381**

Option 1 ID : **4410091038773**

Option 2 ID : **4410091038775**

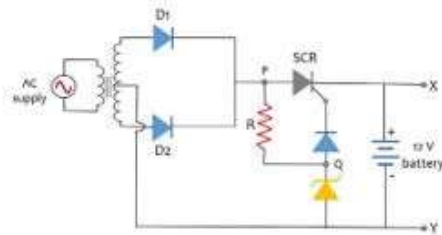
Option 3 ID : **4410091038772**

Option 4 ID : **4410091038774**

Status : **Answered**

Chosen Option : **1**

Q.60 In the following circuit of a battery charging using SCR, the primary circuit consisting of D1 and D2 represents _____.



- Ans ☒ 1. half wave rectifier
☒ 2. bridge rectifier
☒ 3. double bridge rectifier
☒ 4. full wave rectifier

Question Type : **MCQ**

Question ID : **441009271288**

Option 1 ID : **4410091053988**

Option 2 ID : **4410091053989**

Option 3 ID : **4410091053990**

Option 4 ID : **4410091053987**

Status : **Answered**

Chosen Option : **2**

Q.61 Among which of the following categories do single-electron transistors fall?

- Ans ☒ 1. non-metallic and alloy
- ☒ 2. non-metallic and semiconducting
- ☒ 3. alloy and semi-conducting
- ☒ 4. metallic and semiconducting

Question Type : **MCQ**

Question ID : **441009271272**

Option 1 ID : **4410091053925**

Option 2 ID : **4410091053926**

Option 3 ID : **4410091053923**

Option 4 ID : **4410091053924**

Status : **Answered**

Chosen Option : **4**

Q.62 What is the primary advantage of using 25 kV AC for traction systems over lower voltages?

- Ans ☒ 1. Smaller transformer size
- ☒ 2. Greater power transmission efficiency
- ☒ 3. Lower energy consumption
- ☒ 4. Reduced insulation stress

Question Type : **MCQ**

Question ID : **441009266923**

Option 1 ID : **4410091037039**

Option 2 ID : **4410091037038**

Option 3 ID : **4410091037036**

Option 4 ID : **4410091037037**

Status : **Answered**

Chosen Option : **3**

Q.63 Which of the following statements are true about synchronous speed and slip?

- A) If the speed variation was 0.8%, the slip would vary between 0.6% and 1.4%.
- B) For NEMA design B motors, the slip is between 1% and 2% at full load.
- C) Torque developed by inducing current to the rotor is proportional to the slip.
- D) The usual value of the slip of a three-phase induction at no-load is 0.03.

- Ans ☒ 1. A, B and C
- ☒ 2. B, C and D
- ☒ 3. B, D and A
- ☒ 4. A, D and B

Question Type : **MCQ**

Question ID : **441009258357**

Option 1 ID : **4410091007270**

Option 2 ID : **4410091007268**

Option 3 ID : **4410091007269**

Option 4 ID : **4410091007271**

Status : **Answered**

Chosen Option : **2**

Q.64 The error in the measuring instrument, which is caused by disturbances about which humans are unaware is known as _____.

- Ans ☒ 1. gross errors
☒ 2. environmental errors
☒ 3. random errors
☒ 4. instrumental errors

Question Type : MCQ

Question ID : 441009258426

Option 1 ID : 4410091007547

Option 2 ID : 4410091007545

Option 3 ID : 4410091007546

Option 4 ID : 4410091007544

Status : Answered

Chosen Option : 1

Q.65 A DC series motor has a _____, which makes it useful for traction system.

- Ans ☒ 1. high torque at low speed and vice versa
☒ 2. high torque at high speed
☒ 3. constant speed torque characteristics
☒ 4. low torque at low speed

Question Type : MCQ

Question ID : 441009266911

Option 1 ID : 4410091036988

Option 2 ID : 4410091036990

Option 3 ID : 4410091036991

Option 4 ID : 4410091036989

Status : Answered

Chosen Option : 1

Q.66 Which of the following options best describes the function of a protective relay?

- Ans ☒ 1. To attain reactive power compensations
☒ 2. To measure the electrical current in a circuit
☒ 3. To isolate the healthy part of a power system from the unhealthy part
☒ 4. To initiate isolation of a part of an electrical installation in case of a fault

Question Type : MCQ

Question ID : 441009266900

Option 1 ID : 4410091036947

Option 2 ID : 4410091036946

Option 3 ID : 4410091036945

Option 4 ID : 4410091036944

Status : Answered

Chosen Option : 3

Q.67 Which of the following is an example of thermosetting resins?

- Ans ☒ 1. Acetal resin
- ☒ 2. Epoxy resin
- ☒ 3. Polyamide resin
- ☒ 4. Acrylic resin

Question Type : **MCQ**

Question ID : **441009226612**

Option 1 ID : **441009887286**

Option 2 ID : **441009887285**

Option 3 ID : **441009887287**

Option 4 ID : **441009887288**

Status : **Answered**

Chosen Option : **3**

Q.68 The process of condensation polymerisation is useful in the formation of _____.

- Ans ☒ 1. crystalline resins
- ☒ 2. thermosetting plastics
- ☒ 3. thermoplastics materials
- ☒ 4. non-crystalline resins

Question Type : **MCQ**

Question ID : **441009226597**

Option 1 ID : **441009887227**

Option 2 ID : **441009887225**

Option 3 ID : **441009887226**

Option 4 ID : **441009887228**

Status : **Answered**

Chosen Option : **1**

Q.69 Which of the following timers is NOT used in TCP timer management?

- Ans ☒ 1. Persistence timer
- ☒ 2. Keepalive timer
- ☒ 3. Retransmission timer
- ☒ 4. Dead timer

Question Type : **MCQ**

Question ID : **441009226239**

Option 1 ID : **441009885853**

Option 2 ID : **441009885852**

Option 3 ID : **441009885851**

Option 4 ID : **441009885854**

Status : **Answered**

Chosen Option : **4**

Q.70 The high-voltage high rupturing capacity (HRC) liquid type fuses are used for _____ voltage rating.

- Ans ☒ 1. > 220 kV
☒ 2. 220 kV
☒ 3. 132 kV
☒ 4. 33 kV

Question Type : MCQ
Question ID : 441009226587
Option 1 ID : 441009887188
Option 2 ID : 441009887187
Option 3 ID : 441009887186
Option 4 ID : 441009887185
Status : Answered
Chosen Option : 1

Q.71 Which of the following statements are INCORRECT about a stepper motor?

- I. Stepper motors are known for their ability to move in discrete steps, providing precise control over position.
II. Stepper motors require an encoder for position feedback to ensure accurate positioning.
III. Stepper motors operate only in continuous rotation mode and cannot move in discrete steps.
IV. Stepper motors exhibit high torque at low speeds, making them suitable for applications requiring precise control.

- Ans ☒ 1. Statements I and IV
☒ 2. Statements I and III
☒ 3. Statements II and III
☒ 4. Statements II and IV

Question Type : MCQ
Question ID : 441009258341
Option 1 ID : 4410091007207
Option 2 ID : 4410091007204
Option 3 ID : 4410091007206
Option 4 ID : 4410091007205
Status : Answered
Chosen Option : 2

Q.72 Which of the following statements is true about starting, lighting and ignition (SLI) batteries used in vehicles?

- Ans ☒ 1. They are used mainly in electric vehicles for propulsion.
☒ 2. They typically provide 12 volts and consist of 6 series-connected lead-acid cells.
☒ 3. They are designed primarily for long-term energy storage applications.
☒ 4. They typically provide 6 volts and consist of 3 series-connected cells.

Question Type : MCQ
Question ID : 441009226579
Option 1 ID : 441009887156
Option 2 ID : 441009887155
Option 3 ID : 441009887154
Option 4 ID : 441009887153
Status : Answered
Chosen Option : 3

Q.73 Brass, an alloy of copper and zinc, is commonly used in electrical applications. Which of the following statements about brass is correct?

- Ans** ☒ 1. Brass has a resistivity of $7.5 \times 10^{-8} \Omega\text{-m}$, which is higher than copper.
- ☐ 2. Brass has a resistivity lower than that of pure copper.
- ☐ 3. Brass is made by mixing copper and zinc in a 50 : 50 ratio.
- ☐ 4. Brass is a pure metal with excellent conductivity.

Question Type : **MCQ**

Question ID : **441009226584**

Option 1 ID : **441009887175**

Option 2 ID : **441009887173**

Option 3 ID : **441009887174**

Option 4 ID : **441009887176**

Status : **Answered**

Chosen Option : **3**

Q.74 Select the equation that represents the condition for a passive network, if

A = ratio of sending-end voltage V_s to receiving-end voltage,
B = ratio of sending-end voltage V to receiving-end current,
C = the ratio of sending-end current to receiving-end voltage, and
D = the ratio of sending-end current to receiving-end current.

- Ans** ☐ 1. $AC - BD = 1$
- ☒ 2. $AD - BC = 1$
- ☐ 3. $AC - BD = 0$
- ☐ 4. $AD - BC = 0$

Question Type : **MCQ**

Question ID : **441009266302**

Option 1 ID : **4410091034599**

Option 2 ID : **4410091034597**

Option 3 ID : **4410091034598**

Option 4 ID : **4410091034596**

Status : **Answered**

Chosen Option : **2**

Q.75 Which of the following can be considered as an input for the transesterification in an agro-chemical based biomass power plant?

- Ans** ☐ 1. Coal
- ☐ 2. Natural gas
- ☐ 3. Petroleum
- ☒ 4. Animal fat

Question Type : **MCQ**

Question ID : **441009266326**

Option 1 ID : **4410091034692**

Option 2 ID : **4410091034694**

Option 3 ID : **4410091034693**

Option 4 ID : **4410091034695**

Status : **Answered**

Chosen Option : **2**

Q.76 During the operation of a transformer, which of the following parameters remains the same in a step-up transformer?

- Ans ☒ 1. Current
- ☒ 2. Frequency
- ☒ 3. Voltage
- ☒ 4. Number of turns

Question Type : **MCQ**

Question ID : **441009258247**

Option 1 ID : **4410091006831**

Option 2 ID : **4410091006830**

Option 3 ID : **4410091006828**

Option 4 ID : **4410091006829**

Status : **Answered**

Chosen Option : **2**

Q.77 If there are multiple antennas at the receiver, what is the optimal combining technique that maximises signal-to-noise-ratio and combats multipath fading?

- Ans ☒ 1. Equal gain combining
- ☒ 2. Diverse combining
- ☒ 3. Maximal ratio combining
- ☒ 4. Selection combining

Question Type : **MCQ**

Question ID : **441009226234**

Option 1 ID : **441009885833**

Option 2 ID : **441009885834**

Option 3 ID : **441009885832**

Option 4 ID : **441009885831**

Status : **Answered**

Chosen Option : **3**

Q.78 The material used for the construction of core should have _____.

- Ans ☒ 1. low permeability and low reluctance
- ☒ 2. high permeability and high reluctance
- ☒ 3. high permeability and low reluctance
- ☒ 4. low permeability and high reluctance

Question Type : **MCQ**

Question ID : **441009258224**

Option 1 ID : **4410091006739**

Option 2 ID : **4410091006737**

Option 3 ID : **4410091006738**

Option 4 ID : **4410091006736**

Status : **Answered**

Chosen Option : **3**

Q.79 Which of the following is a type of intermittent production?

Ans ☒ 1. Job production

☐ 2. Flow shop production

☐ 3. Flow line production

☐ 4. Process production

Question Type : **MCQ**

Question ID : **441009222125**

Option 1 ID : **441009870754**

Option 2 ID : **441009870753**

Option 3 ID : **441009870751**

Option 4 ID : **441009870752**

Status : **Answered**

Chosen Option : **4**

Q.80 An alkaline cell is discharged at a steady current of 3 A for 12 hours. To restore it to its original state of charge, a steady current of 4 A for 20 hours is required. Calculate the Ah efficiency.

Ans ☐ 1. 40%

☒ 2. 45%

☐ 3. 65%

☐ 4. 55%

Question Type : **MCQ**

Question ID : **441009226590**

Option 1 ID : **441009887197**

Option 2 ID : **441009887198**

Option 3 ID : **441009887200**

Option 4 ID : **441009887199**

Status : **Answered**

Chosen Option : **2**

Q.81 In Embedded C, which of the following statements correctly explains the effect of the compound bitwise OR operation ($=$) on two variables, a and b, where $a = 0b1010$ and $b = 0b1100$?

Ans ☐ 1. The value of a remains 0b1010 because $a \neq b$ does not modify the value of a when common bits are set.

☒ 2. The value of a becomes 0b1110 because the compound bitwise OR ($a \neq b$) sets any bit in a that is set in b.

☐ 3. The value of a becomes 0b1000 because common bits between a and b are cleared.

☐ 4. The value of a becomes 0b0110 as it only sets the bits that are different between a and b.

Question Type : **MCQ**

Question ID : **441009271180**

Option 1 ID : **4410091053558**

Option 2 ID : **4410091053557**

Option 3 ID : **4410091053555**

Option 4 ID : **4410091053556**

Status : **Answered**

Chosen Option : **2**

Q.82 Why are current-balance relays impracticable for protection of feeders?

- Ans ☒ 1. They require secondary EMFs of CTs to circulate around a pilot loop of high impedance, which is impracticable for any economic design of a CT.
- ☐ 2. They require a restraining coil or balancing resistance.
- ☐ 3. They are not able to distinguish between fault currents and normal operating conditions.
- ☐ 4. They induce voltages in the secondary, which are non-linear with respect to the current.

Question Type : **MCQ**

Question ID : **441009266903**

Option 1 ID : **4410091036956**

Option 2 ID : **4410091036958**

Option 3 ID : **4410091036959**

Option 4 ID : **4410091036957**

Status : **Answered**

Chosen Option : 1

Q.83 A discharged battery is put on charge at 5 A for 3.5 hours at mean charging voltage of 5 V. It is then discharged in 5 hours at a constant terminal voltage of 10 V. The value of watt-hour efficiency for an ampere-hour efficiency of 85% is ____.

- Ans ☐ 1. 40.2%
- ☒ 2. 42.5%
- ☐ 3. 53.3%
- ☐ 4. 47.9%

Question Type : **MCQ**

Question ID : **441009226589**

Option 1 ID : **441009887193**

Option 2 ID : **441009887194**

Option 3 ID : **441009887196**

Option 4 ID : **441009887195**

Status : **Answered**

Chosen Option : 3

Q.84 The value of the variable x after the execution of the following Embedded C program in Arduino IDE is ____.

```
void setup() {Serial. begin(9600); } void loop() {int x; x = -4 % 5; Serial. print(x);}
```

- Ans ☐ 1. 4
- ☐ 2. 0
- ☒ 3. -4
- ☐ 4. 1

Question Type : **MCQ**

Question ID : **441009271183**

Option 1 ID : **4410091053570**

Option 2 ID : **4410091053568**

Option 3 ID : **4410091053567**

Option 4 ID : **4410091053569**

Status : **Answered**

Chosen Option : 3

Q.85 In axial-blast air circuit breakers, the flow of air is _____ along the arc.

- Ans ☒ 1. lateral
☒ 2. radial
☒ 3. normal
☒ 4. longitudinal

Question Type : **MCQ**
Question ID : **441009266905**
Option 1 ID : **4410091036966**
Option 2 ID : **4410091036967**
Option 3 ID : **4410091036965**
Option 4 ID : **4410091036964**
Status : **Answered**
Chosen Option : **2**

Q.86 Which of the following effects is used for the rotation of the disc of an integrating instrument?

- Ans ☒ 1. Electromagnetic induction effect
☒ 2. Magnetic effect
☒ 3. Thermal effect
☒ 4. Conduction effect

Question Type : **MCQ**
Question ID : **441009258412**
Option 1 ID : **4410091007490**
Option 2 ID : **4410091007488**
Option 3 ID : **4410091007491**
Option 4 ID : **4410091007489**
Status : **Answered**
Chosen Option : **1**

Q.87 Frame relay replaced which of the following networks, when they were deployed in 1980s?

- Ans ☒ 1. X.27
☒ 2. X.25
☒ 3. X.26
☒ 4. X.24

Question Type : **MCQ**
Question ID : **441009226242**
Option 1 ID : **441009885866**
Option 2 ID : **441009885864**
Option 3 ID : **441009885863**
Option 4 ID : **441009885865**
Status : **Answered**
Chosen Option : **2**

Q.88 Which of the following statements is correct with reference to the rotor resistance control of AC drives?

- Ans ☒ 1. By rotor resistance control method, the speed control is provided by the rated speed to the lower speeds.
- ☒ 2. By rotor resistance control method, the speed cannot be controlled.
- ☒ 3. By rotor resistance control method, the speed control is provided by the rated speed to the higher speeds.
- ☒ 4. By rotor resistance control method, the speed control is provided only at rated speed.

Question Type : **MCQ**

Question ID : **441009258378**

Option 1 ID : **4410091007352**

Option 2 ID : **4410091007355**

Option 3 ID : **4410091007353**

Option 4 ID : **4410091007354**

Status : **Answered**

Chosen Option : **3**

Q.89 A 50 km long transmission line gave impedance measurement as $Z_{OC} = 28\angle -63^\circ$ and $Z_{SC} = 112\angle 51^\circ$. What is the characteristics impedance of the line, where Z_{OC} and Z_{SC} are the open circuit and short circuit impedance parameters?

- Ans ☒ 1. $286\angle -12^\circ$
- ☒ 2. $56\angle -6^\circ$
- ☒ 3. $128\angle -12^\circ$
- ☒ 4. $274\angle -6^\circ$

Question Type : **MCQ**

Question ID : **441009266280**

Option 1 ID : **4410091034511**

Option 2 ID : **4410091034508**

Option 3 ID : **4410091034509**

Option 4 ID : **4410091034510**

Status : **Answered**

Chosen Option : **2**

Q.90 The EMF of a transformer DOES NOT directly depend upon the:

- Ans ☒ 1. supply frequency
- ☒ 2. magnetic field
- ☒ 3. current
- ☒ 4. cross-sectional area of core

Question Type : **MCQ**

Question ID : **441009258231**

Option 1 ID : **4410091006767**

Option 2 ID : **4410091006766**

Option 3 ID : **4410091006764**

Option 4 ID : **4410091006765**

Status : **Answered**

Chosen Option : **1**

Q.91 The open circuit voltage of a linear bilateral network is 15 V and the resistance of the network viewed from the open circuited terminal is 3.75 Ω . If an equivalent circuit comprising of only a current source and resistance is made, the current source rating will be _____.

- Ans ☒ 1. 4 A
- ☒ 2. 15 A
- ☒ 3. 7.5 A
- ☒ 4. 3.75 A

Question Type : **MCQ**

Question ID : **441009271402**

Option 1 ID : **4410091054446**

Option 2 ID : **4410091054443**

Option 3 ID : **4410091054444**

Option 4 ID : **4410091054445**

Status : **Answered**

Chosen Option : 1

Q.92 Which of the following properties DO/DOES NOT belong to thermoplastic resin?

Hard at room temperature

Irreversible

Withstand higher temperature

- Ans ☒ 1. Both i and ii
- ☒ 2. Both i and iii
- ☒ 3. Both ii and iii
- ☒ 4. Only ii

Question Type : **MCQ**

Question ID : **441009226613**

Option 1 ID : **441009887290**

Option 2 ID : **441009887291**

Option 3 ID : **441009887292**

Option 4 ID : **441009887289**

Status : **Answered**

Chosen Option : 4

Q.93 In CRO, vertical amplifiers are _____ and they amplify _____.

- Ans ☒ 1. wide band; input signals
- ☒ 2. narrow band; input signals
- ☒ 3. wide band; output signals
- ☒ 4. narrow band; output signals

Question Type : **MCQ**

Question ID : **441009258411**

Option 1 ID : **4410091007487**

Option 2 ID : **4410091007485**

Option 3 ID : **4410091007486**

Option 4 ID : **4410091007484**

Status : **Answered**

Chosen Option : 3

Q.94 Which of the following statements about isometric drawing is true?

- Ans ☒ 1. It is mainly used for artistic purposes.
- ☒ 2. It cannot represent objects with curves.
- ☒ 3. It provides an equal scale for all three dimensions.
- ☒ 4. It can only represent objects with straight lines.

Question Type : **MCQ**

Question ID : **441009225895**

Option 1 ID : **441009884445**

Option 2 ID : **441009884443**

Option 3 ID : **441009884444**

Option 4 ID : **441009884442**

Status : **Answered**

Chosen Option : **3**

Q.95 Which fuel is commonly used in nuclear power reactors?

- Ans ☒ 1. Diesel
- ☒ 2. Uranium-235
- ☒ 3. Natural gas
- ☒ 4. Coal

Question Type : **MCQ**

Question ID : **441009258291**

Option 1 ID : **4410091007002**

Option 2 ID : **4410091007001**

Option 3 ID : **4410091007003**

Option 4 ID : **4410091007000**

Status : **Answered**

Chosen Option : **2**

Q.96 In the measurement of instruments, the ratio of absolute error to the true value is known as _____.

- Ans ☒ 1. relative static error
- ☒ 2. relative dynamic error
- ☒ 3. static error
- ☒ 4. dynamic error

Question Type : **MCQ**

Question ID : **441009258422**

Option 1 ID : **4410091007530**

Option 2 ID : **4410091007531**

Option 3 ID : **4410091007528**

Option 4 ID : **4410091007529**

Status : **Answered**

Chosen Option : **4**

Q.97 Which of the following statements is NOT correct with reference to brushless DC motors used in servo applications?

- Ans ☒ 1. Rotors of these motors are lighter in weight and easier to start and stop.
- ☒ 2. The torque remains constant for a speed range up to the rated speed.
- ☒ 3. In these motors, heat is generated in the stator, which is easier to remove and maintain.
- ☒ 4. These motors are faster, less noisy and more reliable.

Question Type : **MCQ**

Question ID : **441009258362**

Option 1 ID : **4410091007290**

Option 2 ID : **4410091007291**

Option 3 ID : **4410091007289**

Option 4 ID : **4410091007288**

Status : **Answered**

Chosen Option : **2**

Q.98 What is the purpose of the 'Fillet' command in CAD software?

- Ans ☒ 1. To move an object from one location to another
- ☒ 2. To change the colour of an object
- ☒ 3. To create a smooth curve between two lines
- ☒ 4. To delete selected objects

Question Type : **MCQ**

Question ID : **441009226096**

Option 1 ID : **441009885207**

Option 2 ID : **441009885209**

Option 3 ID : **441009885206**

Option 4 ID : **441009885208**

Status : **Answered**

Chosen Option : **1**

Q.99 In which of the following cycles does heat addition NOT take place at constant volume?

- Ans ☒ 1. Otto cycle
- ☒ 2. Dual cycle
- ☒ 3. Diesel cycle
- ☒ 4. Lenoir cycle

Question Type : **MCQ**

Question ID : **441009258292**

Option 1 ID : **4410091007006**

Option 2 ID : **4410091007005**

Option 3 ID : **4410091007007**

Option 4 ID : **4410091007004**

Status : **Answered**

Chosen Option : **2**

Q.10 Which of the following relations is correct regarding transmission line characteristic

0 Impedance (Z_0)?

Ans

✓ 1. $Z_0 = \sqrt{\frac{R + j\omega L}{G + j\omega C}}$

✗ 2. $Z_0 = \sqrt{\frac{G + j\omega C}{R + j\omega L}}$

✗ 3. $Z_0 = \sqrt{\frac{R + j\omega C}{G + j\omega L}}$

✗ 4. $Z_0 = \sqrt{\frac{G + j\omega L}{R + j\omega C}}$

Question Type : **MCQ**

Question ID : **441009266284**

Option 1 ID : **4410091034524**

Option 2 ID : **4410091034527**

Option 3 ID : **4410091034526**

Option 4 ID : **4410091034525**

Status : **Answered**

Chosen Option : 1