



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	4:00 PM - 5:30 PM
Subject	Junior Electrical Engineer (Electrical)

Section : General Knowledge

Q.1 निम्नलिखित में से कौन-सा, गांधीवादी सिद्धांत, राज्य के नीति निर्देशक सिद्धांतों में निहित नहीं है?

- Ans ☒ 1. कमजोर वर्गों के शैक्षणिक और आर्थिक हितों को बढ़ावा देना
- ☒ 2. ग्राम पंचायतों का संगठन
- ☒ 3. कुटीर उद्योगों को बढ़ावा देना
- ☒ 4. समान नागरिक संहिता

Question Type : MCQ

Question ID : 44100914107

Option 1 ID : 44100956261

Option 2 ID : 44100956264

Option 3 ID : 44100956263

Option 4 ID : 44100956262

Status : Answered

Chosen Option : 3

Q.2 Which city has been designated as the UNESCO World Book Capital for the year 2025?

- Ans ☒ 1. Madrid
- ☒ 2. New Delhi
- ☒ 3. Paris
- ☒ 4. Rio de Janeiro

Question Type : MCQ

Question ID : 441009217521

Option 1 ID : 441009854043

Option 2 ID : 441009854041

Option 3 ID : 441009854040

Option 4 ID : 441009854042

Status : Answered

Chosen Option : 1

Q.3 By which year is the Indian Space Economy expected to grow from around \$8.4 billion to \$44 billion?

- Ans ☒ 1. 2033
☒ 2. 2031
☒ 3. 2030
☒ 4. 2032

Question Type : MCQ

Question ID : 441009332561

Option 1 ID : 4410091296263

Option 2 ID : 4410091296261

Option 3 ID : 4410091296260

Option 4 ID : 4410091296262

Status : Answered

Chosen Option : 3

Q.4 What is the percentage of Urban Population in India, according to 2011 Census?

- Ans ☒ 1. 33.46%
☒ 2. 35.46%
☒ 3. 31.16%
☒ 4. 30.16%

Question Type : MCQ

Question ID : 441009332626

Option 1 ID : 4410091296522

Option 2 ID : 4410091296523

Option 3 ID : 4410091296521

Option 4 ID : 4410091296520

Status : Answered

Chosen Option : 1

Q.5 2025 विश्व बैंक भूमि सम्मेलन में, भारत को किस क्षेत्र में अपने कार्य के लिए देश चैंपियन के रूप में मान्यता दी गई?

- Ans ☒ 1. ग्रामीण भू प्रशासन
☒ 2. शहरी अवसंरचना विकास
☒ 3. नवीकरणीय ऊर्जा विस्तार
☒ 4. डिजिटल शिक्षा पहल

Question Type : MCQ

Question ID : 441009258061

Option 1 ID : 4410091006081

Option 2 ID : 4410091006080

Option 3 ID : 4410091006082

Option 4 ID : 4410091006083

Status : Answered

Chosen Option : 3

Q.6 निम्नलिखित में से कौन सी प्रक्रिया मुख्य रूप से सीमेंट के उत्पादन में शामिल है?

Ans ☒ 1. पाइरोप्रोसेसिंग

☐ 2. थर्मोफॉर्मिंग

☐ 3. हाइड्रोप्रोसेसिंग

☐ 4. इलेक्ट्रोलिसिस

Question Type : MCQ

Question ID : 441009217983

Option 1 ID : 441009855866

Option 2 ID : 441009855867

Option 3 ID : 441009855864

Option 4 ID : 441009855865

Status : Answered

Chosen Option : 1

Q.7 Who won the 15th Hockey India Senior Womens National Championship?

Ans ☐ 1. Hockey Maharashtra

☐ 2. Hockey Mizoram

☐ 3. Hockey Punjab

☒ 4. Hockey Jharkhand

Question Type : MCQ

Question ID : 441009258159

Option 1 ID : 4410091006472

Option 2 ID : 4410091006475

Option 3 ID : 4410091006473

Option 4 ID : 4410091006474

Status : Answered

Chosen Option : 3

Q.8 _____ के बारे में जानने पर, रवींद्रनाथ टैगोर ने अपनी नाइट की उपाधि (Knighthood) त्याग कर देश के दर्द और गुस्से को व्यक्त किया।

Ans ☐ 1. ब्रिटिश भारत के विभाजन

☒ 2. जलियांवाला बाग हत्याकांड

☐ 3. बंगाल के विभाजन

☐ 4. खेजड़ली हत्याकांड

Question Type : MCQ

Question ID : 441009332623

Option 1 ID : 4410091296511

Option 2 ID : 4410091296509

Option 3 ID : 4410091296508

Option 4 ID : 4410091296510

Status : Answered

Chosen Option : 2

Q.9 1526 में हुआ _____, बाबर और लोदी साम्राज्य की आक्रमणकारी सेनाओं के बीच लड़ा गया था।

- Ans ☒ 1. पानीपत का दूसरा युद्ध
☒ 2. बयाना का युद्ध
☒ 3. पानीपत का पहला युद्ध
☒ 4. चंदेरी का युद्ध

Question Type : **MCQ**

Question ID : **441009205406**

Option 1 ID : **441009807847**

Option 2 ID : **441009807846**

Option 3 ID : **441009807848**

Option 4 ID : **441009807845**

Status : **Answered**

Chosen Option : **3**

Q.10 'To develop the scientific temper, humanism and the spirit of inquiry and reform' is a provision made in which of the following of the Indian Constitution?

- Ans ☒ 1. Fundamental Rights
☒ 2. Preamble of the Constitution
☒ 3. Directive Principles of State Policy
☒ 4. Fundamental Duties

Question Type : **MCQ**

Question ID : **441009204989**

Option 1 ID : **441009806200**

Option 2 ID : **441009806198**

Option 3 ID : **441009806199**

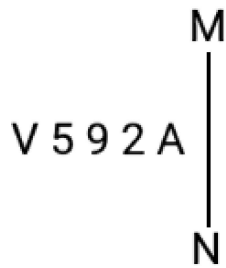
Option 4 ID : **441009806201**

Status : **Answered**

Chosen Option : **4**

Section : **Logical Reasoning**

Q.11 Select the correct mirror image of the given combination when the mirror is placed at 'MN' as shown below.



- Ans
- ☒ 1. A 5 9 2 V
 - ☒ 2. 2 A 9 5 V
 - ☒ 3. V 2 6 9 A
 - ☒ 4. A 5 9 2 V

Question Type : MCQ

Question ID : 441009356250

Option 1 ID : 4410091391101

Option 2 ID : 4410091391100

Option 3 ID : 4410091391099

Option 4 ID : 4410091391098

Status : Answered

Chosen Option : 4

Q.12 यदि संख्या 1574836 में प्रत्येक विषम अंक में 1 जोड़ा जाए तथा प्रत्येक सम अंक में से 2 घटाया जाए, तो इस प्रकार बनी नई संख्या में बाएँ से दूसरे तथा दाएँ से दूसरे अंकों का योग क्या होगा?

- Ans
- ☒ 1. 15
 - ☒ 2. 10
 - ☒ 3. 11
 - ☒ 4. 12

Question Type : MCQ

Question ID : 441009216078

Option 1 ID : 441009848354

Option 2 ID : 441009848351

Option 3 ID : 441009848352

Option 4 ID : 441009848353

Status : Answered

Chosen Option : 2

Q.13 In the following number-pairs, the second number is obtained by applying certain mathematical operation(s) to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is same as that on the right side of ::?

(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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

X : 172 :: 94 : Y

Ans ☒ 1. X = 110, Y = 156

☒ 2. X = 116, Y = 140

☒ 3. X = 122, Y = 140

☒ 4. X = 120, Y = 140

Question Type : **MCQ**

Question ID : **441009216238**

Option 1 ID : **441009848992**

Option 2 ID : **441009848994**

Option 3 ID : **441009848993**

Option 4 ID : **441009848991**

Status : **Answered**

Chosen Option : 1

Q.14 नीचे दी गई 3 अंकों वाली पाँच संख्याओं का संदर्भ लीजिए और नीचे दिए गए प्रश्न का उत्तर दीजिए।

(बाएं) 194 176 253 274 318 (दाएं)

(उदाहरण - 697 - पहला अंक = 6, दूसरा अंक = 9, और तीसरा अंक = 7)

यदि प्रत्येक संख्या के पहले अंक में 3 जोड़ दिया जाए, तो कितनी संख्याओं में पहला अंक, दूसरे अंक से पूर्णतः विभाजित होगा?

Ans ☒ 1. एक भी नहीं

☒ 2. एक

☒ 3. तीन

☒ 4. दो

Question Type : **MCQ**

Question ID : **441009217006**

Option 1 ID : **441009852064**

Option 2 ID : **441009852065**

Option 3 ID : **441009852063**

Option 4 ID : **441009852066**

Status : **Answered**

Chosen Option : 4

Q.15 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is same as that on the right side of ::?

(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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

X : 34 :: 70 : Y

Ans  1. X = 80, Y = 30

 2. X = 85, Y = 28

 3. X = 90, Y = 28

 4. X = 75, Y = 30

Question Type : **MCQ**

Question ID : **441009216239**

Option 1 ID : **441009848998**

Option 2 ID : **441009848997**

Option 3 ID : **441009848996**

Option 4 ID : **441009848995**

Status : **Answered**

Chosen Option : **2**

Q.16 छह दोस्त एक गोल मेज के परितः केंद्र की ओर अभिमुख होकर बैठे हैं। टोनी और सुमित दोनों की निकटतम पड़ोसी मैरी है। सुमित के दाएं तीसरे स्थान पर तन्वी बैठी है। टोनी के बाएं दूसरे स्थान पर वैशाली बैठी है। मैरी के दाएं दूसरे स्थान पर ऋषि बैठा है। टोनी और वैशाली दोनों का निकटतम पड़ोसी कौन है?

Ans  1. तन्वी

 2. ऋषि

 3. मैरी

 4. सुमित

Question Type : **MCQ**

Question ID : **441009216948**

Option 1 ID : **441009851832**

Option 2 ID : **441009851833**

Option 3 ID : **441009851831**

Option 4 ID : **441009851834**

Status : **Answered**

Chosen Option : **1**

Q.17 एक निश्चित कूट भाषा में,
 'A + B' का अर्थ है कि 'A, B की बहन है',
 'A - B' का अर्थ है कि 'A, B का भाई है',
 'A × B' का अर्थ है कि 'A, B की पत्नी है' और
 'A ÷ B' का अर्थ है कि 'A, B का पिता है'।

यदि 'S + D × F ÷ G - H' है तो S का H से क्या संबंध है?

- Ans ☒ 1. माता की माता
☒ 2. माता की बहन
☒ 3. पिता की माता
☒ 4. पिता की बहन

Question Type : MCQ

Question ID : 441009216602

Option 1 ID : 441009850448

Option 2 ID : 441009850447

Option 3 ID : 441009850450

Option 4 ID : 441009850449

Status : Answered

Chosen Option : 2

Q.18 CFKP is related to FIOT in a certain way based on the English alphabetical order. In the same way, ORAF is related to RUEJ. To which of the given options is XAMR related, following the same logic?

- Ans ☒ 1. ADVQ
☒ 2. ADQV
☒ 3. AQYU
☒ 4. AWER

Question Type : MCQ

Question ID : 441009216534

Option 1 ID : 441009850176

Option 2 ID : 441009850175

Option 3 ID : 441009850177

Option 4 ID : 441009850178

Status : Answered

Chosen Option : 2

Q.19 What should come in place of the question mark (?) in the following series?
 19, 24, 48, 55, 110, 119, 238, ?

- Ans ☒ 1. 242
☒ 2. 249
☒ 3. 257
☒ 4. 238

Question Type : MCQ

Question ID : 441009216234

Option 1 ID : 441009848978

Option 2 ID : 441009848975

Option 3 ID : 441009848976

Option 4 ID : 441009848977

Status : Answered

Chosen Option : 2

Q.20 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans  1. JQ-HC
 2. SZ-QL
 3. EL-CX
 4. TA-RN

Question Type : **MCQ**

Question ID : **441009216457**

Option 1 ID : **441009849869**

Option 2 ID : **441009849870**

Option 3 ID : **441009849867**

Option 4 ID : **441009849868**

Status : **Answered**

Chosen Option : **4**

Section : **General English and Comprehension**

Q.21 The given sentence is divided into four segments. Select the option that has the segment with the grammatical error.

The only means of transportation / for me now / are my / bicycle and my bike.

- Ans  1. are my
 2. The only means of transportation
 3. for me now
 4. bicycle and my bike.

Question Type : **MCQ**

Question ID : **441009204600**

Option 1 ID : **441009804871**

Option 2 ID : **441009804869**

Option 3 ID : **441009804870**

Option 4 ID : **441009804872**

Status : **Answered**

Chosen Option : **2**

Q.22 Select the proverb that conveys the same meaning as the underlined segment in the given sentence.

The poor boy in school was bullied by his classmates until he stood first in the class. The teacher told the kids never to judge someone based on their outer appearance.

- Ans ☒ 1. Do not judge a book by its cover
- ☐ 2. God helps those who help themselves
- ☐ 3. Do not put all eggs in one basket
- ☐ 4. Grass is greener on the other side of the fence

Question Type : MCQ

Question ID : 441009203870

Option 1 ID : 441009801990

Option 2 ID : 441009801988

Option 3 ID : 441009801989

Option 4 ID : 441009801991

Status : Answered

Chosen Option : 1

Q.23 Identify the underlined word that must be replaced in order to correct the given sentence.

I get up early, shower first, then I outstandingly drink some tea and get dressed as fast as I can.

- Ans ☐ 1. fast
- ☒ 2. outstandingly
- ☐ 3. first
- ☐ 4. early

Question Type : MCQ

Question ID : 441009204522

Option 1 ID : 441009804560

Option 2 ID : 441009804559

Option 3 ID : 441009804558

Option 4 ID : 441009804557

Status : Answered

Chosen Option : 1

Q.24 Select the most appropriate option that can substitute the underlined words in the given sentence.

A/An person who loves his or her country and defends it with devotion can never be called a traitor.

- Ans ☐ 1. chauvinist
- ☐ 2. nationalist
- ☒ 3. patriot
- ☐ 4. imperialist

Question Type : MCQ

Question ID : 441009203655

Option 1 ID : 441009801130

Option 2 ID : 441009801129

Option 3 ID : 441009801128

Option 4 ID : 441009801131

Status : Answered

Chosen Option : 2

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

Interval

- Ans ☒ 1. Interpret
☒ 2. Intercept
☒ 3. Interlude
☒ 4. Interdict

Question Type : MCQ

Question ID : 441009203945

Option 1 ID : 441009802290

Option 2 ID : 441009802289

Option 3 ID : 441009802288

Option 4 ID : 441009802291

Status : Answered

Chosen Option : 1

Section : General Hindi

Q.26 नीचे दिए मुहावरे का सही अर्थ दिए गए विकल्पों में से चुनें।
दाई से पेट छिपाना

- Ans ☒ 1. अजीब हालत होना
☒ 2. जानकार से बात छिपाना
☒ 3. भाग्य का चक्कर
☒ 4. वचन से फिरना

Question Type : MCQ

Question ID : 441009331488

Option 1 ID : 4410091292089

Option 2 ID : 4410091292088

Option 3 ID : 4410091292090

Option 4 ID : 4410091292091

Status : Answered

Chosen Option : 2

Q.27 निम्नलिखित वाक्य को दिए गए विकल्पों में से उपयुक्त कारक से पूरा करें-

मैंने हरि.....बुलाया।

- Ans ☒ 1. की
☒ 2. ने
☒ 3. को
☒ 4. से

Question Type : MCQ

Question ID : 44100949316

Option 1 ID : 441009196553

Option 2 ID : 441009196552

Option 3 ID : 441009196554

Option 4 ID : 441009196555

Status : Answered

Chosen Option : 3

Q.28 'कृष्ण' का अनेकार्थी शब्द है?

- Ans ☒ 1. नभ
☒ 2. पताका
☒ 3. जल
☒ 4. काला

Question Type : MCQ

Question ID : 441009291176

Option 1 ID : 4410091131557

Option 2 ID : 4410091131556

Option 3 ID : 4410091131555

Option 4 ID : 4410091131554

Status : Answered

Chosen Option : 1

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

- Ans ☒ 1. मैं नाव पर सवार था।
☒ 2. मैंने नाव पर सवारी था।
☒ 3. मैं नाव पर सवारी था।
☒ 4. मुझे नाव पर सवार था।

Question Type : MCQ

Question ID : 441009208244

Option 1 ID : 441009818588

Option 2 ID : 441009818589

Option 3 ID : 441009818587

Option 4 ID : 441009818590

Status : Answered

Chosen Option : 1

Q.30 निम्नलिखित में से कौन-सा विकल्प 'घट' शब्द का अर्थ नहीं है?

- Ans ☒ 1. घड़ा
☒ 2. न्यून
☒ 3. कम
☒ 4. पहिया

Question Type : MCQ

Question ID : 441009303186

Option 1 ID : 4410091179308

Option 2 ID : 4410091179310

Option 3 ID : 4410091179309

Option 4 ID : 4410091179311

Status : Answered

Chosen Option : 4

Section : Basic Knowledge of Computer

Q.31 एमएस वर्ड में 'Page Break' का उद्देश्य क्या है?

- Ans ☒ 1. इमेज को इन्सर्ट करना
- ☒ 2. डॉक्यूमेंट को समाप्त करना
- ☒ 3. नया पेज शुरू करना
- ☒ 4. फ्रॉन्ट को एडजस्ट करना

Question Type : MCQ

Question ID : 441009214322

Option 1 ID : 441009841329

Option 2 ID : 441009841326

Option 3 ID : 441009841327

Option 4 ID : 441009841328

Status : Answered

Chosen Option : 3

Q.32 Which of the following is the most effective way to protect a PC from malware?

- Ans ☒ 1. Regularly defragmenting the hard drive
- ☒ 2. Installing and updating antivirus software
- ☒ 3. Disconnecting from the internet
- ☒ 4. Using a larger monitor

Question Type : MCQ

Question ID : 441009213897

Option 1 ID : 441009839657

Option 2 ID : 441009839658

Option 3 ID : 441009839660

Option 4 ID : 441009839659

Status : Answered

Chosen Option : 2

Q.33 What is the best practice for handling unsolicited spam emails?

- Ans ☒ 1. Open any attachments
- ☒ 2. Mark the email as junk or spam
- ☒ 3. Reply to the email
- ☒ 4. Forward the email to your contacts

Question Type : MCQ

Question ID : 441009215341

Option 1 ID : 441009845400

Option 2 ID : 441009845401

Option 3 ID : 441009845399

Option 4 ID : 441009845402

Status : Answered

Chosen Option : 2

Q.34 Which of the following best describes the concept of 'input validation' in application security?

- Ans ☒ 1. Encrypting data before it is stored
- ☒ 2. Testing the application for performance issues
- ☒ 3. Ensuring the application interface is user-friendly
- ☒ 4. Verifying and sanitising user inputs to prevent malicious data

Question Type : **MCQ**

Question ID : **441009215008**

Option 1 ID : **441009844074**

Option 2 ID : **441009844075**

Option 3 ID : **441009844072**

Option 4 ID : **441009844073**

Status : **Answered**

Chosen Option : **4**

Q.35 In Microsoft Excel 2016, what is the maximum number of characters that can be displayed in a single cell when the cell width is set to the default value?

- Ans ☒ 1. 32767 characters
- ☒ 2. 65536 characters
- ☒ 3. 1024 characters
- ☒ 4. 256 characters

Question Type : **MCQ**

Question ID : **441009215676**

Option 1 ID : **441009846741**

Option 2 ID : **441009846742**

Option 3 ID : **441009846740**

Option 4 ID : **441009846739**

Status : **Answered**

Chosen Option : **2**

Q.36 Which Internet Protocol is most frequently used to access online pages?

- Ans ☒ 1. HTTP
- ☒ 2. UDP
- ☒ 3. TCP
- ☒ 4. SMTP

Question Type : **MCQ**

Question ID : **441009215636**

Option 1 ID : **441009846581**

Option 2 ID : **441009846579**

Option 3 ID : **441009846582**

Option 4 ID : **441009846580**

Status : **Answered**

Chosen Option : **1**

Q.37 डिजिटल प्रमाणपत्र (digital certificate) का उद्देश्य क्या होता है?

- Ans ☒ 1. यूजर या डिवाइस की पहचान प्रमाणित करना
- ☐ 2. ईमेल संदेश एन्क्रिप्ट करना
- ☐ 3. SMS एन्क्रिप्ट करना
- ☐ 4. डेटा को सुरक्षित रूप से संग्रहीत करना

Question Type : MCQ

Question ID : 441009215315

Option 1 ID : 441009845298

Option 2 ID : 441009845295

Option 3 ID : 441009845296

Option 4 ID : 441009845297

Status : Answered

Chosen Option : 1

Q.38 The primary function of antivirus software is to _____.

- Ans ☐ 1. install system updates
- ☒ 2. detect and remove malware
- ☐ 3. compress files
- ☐ 4. increase system speed

Question Type : MCQ

Question ID : 441009214305

Option 1 ID : 441009841259

Option 2 ID : 441009841261

Option 3 ID : 441009841260

Option 4 ID : 441009841258

Status : Answered

Chosen Option : 2

Q.39 MS पावरपॉइंट में कौन-सा फीचर, यूजर को प्रजेंटेशन के दौरान एक स्लाइड से दूसरी स्लाइड पर जाने को नियंत्रित करने की सुविधा देता है?

- Ans ☐ 1. Slide Master
- ☐ 2. Slide Sorter
- ☒ 3. Slide Transition
- ☐ 4. Slide Layout

Question Type : MCQ

Question ID : 441009215358

Option 1 ID : 441009845469

Option 2 ID : 441009845467

Option 3 ID : 441009845468

Option 4 ID : 441009845470

Status : Answered

Chosen Option : 2

Q.40 Which of the following function keys is used to open the Editor in an MS Word document?

- Ans ☒ 1. F4
☒ 2. F7
☒ 3. F8
☒ 4. F6

Question Type : **MCQ**
Question ID : **441009215246**
Option 1 ID : **441009845019**
Option 2 ID : **441009845021**
Option 3 ID : **441009845022**
Option 4 ID : **441009845020**
Status : **Answered**
Chosen Option : **1**

Section : **Technical Paper**

Q.41 Which of the following statements is true regarding encoder circuit?

- Ans ☒ 1. An encoder has 2^n input lines and $(n-1)$ output lines.
☒ 2. Encoder circuit is an example of a sequential circuit.
☒ 3. Encoder performs reverse operations of a decoder.
☒ 4. Encoder circuit cannot be used for converting hexadecimal to binary number.

Question Type : **MCQ**
Question ID : **441009267478**
Option 1 ID : **4410091039163**
Option 2 ID : **4410091039160**
Option 3 ID : **4410091039162**
Option 4 ID : **4410091039161**
Status : **Answered**
Chosen Option : **3**

Q.42 A 100 kVA 2400/240V, 50 Hz transformer has 300 turns on the secondary winding. What is the approximate value of primary currents on full load?

- Ans ☒ 1. 417 A
☒ 2. 24 A
☒ 3. 24 mA
☒ 4. 41.7 A

Question Type : **MCQ**
Question ID : **441009258236**
Option 1 ID : **4410091006787**
Option 2 ID : **4410091006785**
Option 3 ID : **4410091006784**
Option 4 ID : **4410091006786**
Status : **Answered**
Chosen Option : **4**

Q.43 In water treatment, temporary hardness can be easily removed by boiling the water.

Temporary hardness of water is caused by the presence of _____.

- Ans ☒ 1. sulphates of calcium and magnesium
- ☒ 2. chlorides of calcium and magnesium
- ☒ 3. nitrates of calcium and magnesium
- ☒ 4. bicarbonates of calcium and magnesium

Question Type : MCQ

Question ID : 441009221741

Option 1 ID : 441009869297

Option 2 ID : 441009869298

Option 3 ID : 441009869299

Option 4 ID : 441009869296

Status : Answered

Chosen Option : 2

Q.44 A body in which the distance between any two particles remains constant is a:

- Ans ☒ 1. flexible and elastic body
- ☒ 2. elastic body
- ☒ 3. rigid body
- ☒ 4. flexible body

Question Type : MCQ

Question ID : 441009226147

Option 1 ID : 441009885413

Option 2 ID : 441009885412

Option 3 ID : 441009885411

Option 4 ID : 441009885410

Status : Answered

Chosen Option : 3

Q.45 How many input and output terminals does a full subtractor have?

- Ans ☒ 1. 2 inputs, 1 output
- ☒ 2. 3 inputs, 2 outputs
- ☒ 3. 3 inputs, 1 output
- ☒ 4. 2 inputs, 2 outputs

Question Type : MCQ

Question ID : 44100981659

Option 1 ID : 441009324258

Option 2 ID : 441009324260

Option 3 ID : 441009324261

Option 4 ID : 441009324259

Status : Answered

Chosen Option : 2

Q.46 निम्नलिखित में से कौन-सा कथन गलत है?

Ans ☒ 1. इंग्लैंड के लिए डिज़ाइन किया गया DVD प्लेयर, फ्रांस में भी काम करेगा।

☒ 2. VCD की क्षमता, DVD की क्षमता से कम होती है।

☒ 3. DVD प्लेयर में, सभी इलेक्ट्रिकल, मैकेनिकल और इलेक्ट्रॉनिक घटकों को एक दूसरे के साथ सामंजस्य (harmony) में काम करने की आवश्यकता होती है।

☒ 4. DVD को प्रायः डिजिटल वीडियो डिस्क के रूप में जाना जाता है।

Question Type : **MCQ**

Question ID : **441009267581**

Option 1 ID : **4410091039570**

Option 2 ID : **4410091039571**

Option 3 ID : **4410091039568**

Option 4 ID : **4410091039569**

Status : **Answered**

Chosen Option : **4**

Q.47 Which of the following has a positive temperature coefficient of resistance?

Ans ☒ 1. Insulator

☒ 2. Conductor

☒ 3. Carbon

☒ 4. Semiconductor

Question Type : **MCQ**

Question ID : **441009226616**

Option 1 ID : **441009887302**

Option 2 ID : **441009887304**

Option 3 ID : **441009887301**

Option 4 ID : **441009887303**

Status : **Answered**

Chosen Option : **2**

Q.48 Which of the following is correct with reference to the single-phase transformer?

Ans ☒ 1. Induced EMF per turn of primary = Induced EMF per turn of secondary

☒ 2. Induced EMF per turn of primary > Induced EMF per turn of secondary

☒ 3. Induced EMF per turn of primary < Induced EMF per turn of secondary

☒ 4. Induced EMF per turn of primary $\neq$ Induced EMF per turn of secondary

Question Type : **MCQ**

Question ID : **441009258245**

Option 1 ID : **4410091006820**

Option 2 ID : **4410091006821**

Option 3 ID : **4410091006822**

Option 4 ID : **4410091006823**

Status : **Answered**

Chosen Option : **1**

Q.49 In a 4-variable K-map, what is the maximum number of adjacent cells that can be grouped together?

- Ans ☒ 1. 32
☒ 2. 16
☒ 3. 4
☒ 4. 8

Question Type : MCQ
Question ID : 44100981779
Option 1 ID : 441009324735
Option 2 ID : 441009324734
Option 3 ID : 441009324732
Option 4 ID : 441009324733
Status : Answered
Chosen Option : 2

Q.50 What is the electrochemical equivalent (ECE) of silver, if 120 mg of silver is deposited on the cathode in 3 min 20 s, by a DC current of 0.5 A?

- Ans ☒ 1. 0.30 mg/C
☒ 2. 3.33 mg/C
☒ 3. 0.83 mg/C
☒ 4. 1.20 mg/C

Question Type : MCQ
Question ID : 441009226609
Option 1 ID : 441009887273
Option 2 ID : 441009887276
Option 3 ID : 441009887274
Option 4 ID : 441009887275
Status : Answered
Chosen Option : 4

Q.51 A/an _____ uses a bright beam of light and lens system to project the image or video onto a much larger viewing screen.

- Ans ☒ 1. LED TV
☒ 2. LCD TV
☒ 3. QLED TV
☒ 4. projection TV

Question Type : MCQ
Question ID : 441009267584
Option 1 ID : 4410091039581
Option 2 ID : 4410091039582
Option 3 ID : 4410091039583
Option 4 ID : 4410091039580
Status : Answered
Chosen Option : 4

Q.52 यूनिवर्सल लॉजिक गेट्स के निर्माण के लिए न्यूनतम _____ 2-टु-1 बहुसंकेतकों (Multiplexers) की आवश्यकता होती है।

Ans ☒ 1. 2

☐ 2. 4

☐ 3. 3

☐ 4. 5

Question Type : **MCQ**

Question ID : **441009267475**

Option 1 ID : **4410091039148**

Option 2 ID : **4410091039150**

Option 3 ID : **4410091039149**

Option 4 ID : **4410091039151**

Status : **Answered**

Chosen Option : **1**

Q.53 Which of the following statements are correct regarding transformers?

S1. Self-induced EMF(E) in the primary winding lags the flux ' ϕ ' by 90° .

S2. It works on the principle of Faraday's law of electromagnetic induction.

S3. When the secondary is an open circuit, its terminal voltage ' V_2 ' is practically equal and opposite to the primary induced EMF (E_1).

S4. Primary winding is inductive in nature.

Ans ☐ 1. S2, S3 and S4

☒ 2. S1, S2 and S4

☐ 3. S1, S2 and S3

☐ 4. S1, S3 and S4

Question Type : **MCQ**

Question ID : **441009258237**

Option 1 ID : **4410091006790**

Option 2 ID : **4410091006789**

Option 3 ID : **4410091006788**

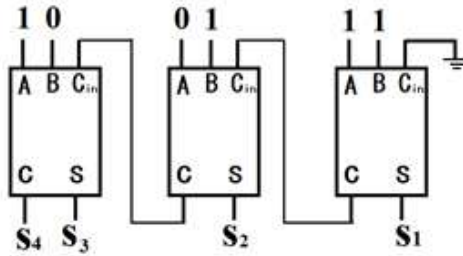
Option 4 ID : **4410091006791**

Status : **Answered**

Chosen Option : **3**

Q.54

The sum generated by the 3-bit parallel adder shown below is:



Ans ☒ 1. 1000

☒ 2. 110101

☒ 3. 0001

☒ 4. 1001

Question Type : MCQ

Question ID : 441009267484

Option 1 ID : 4410091039184

Option 2 ID : 4410091039187

Option 3 ID : 4410091039185

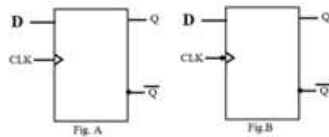
Option 4 ID : 4410091039186

Status : Answered

Chosen Option : 3

Q.55

Consider the figure shown below and identify the correct statement related to it.



Ans ☒ 1. Figure A: Positive edged D-flip flop
Figure B: Negative edged D-flip flop

☒ 2. Figure A: Positive edged D-flip flop
Figure B: Positive edged D-flip flop

☒ 3. Figure A: Negative edged D-flip flop
Figure B: Positive edged D-flip flop

☒ 4. Figure A: Negative edged D-flip flop
Figure B: Negative edged D-flip flop

Question Type : MCQ

Question ID : 441009267481

Option 1 ID : 4410091039174

Option 2 ID : 4410091039173

Option 3 ID : 4410091039172

Option 4 ID : 4410091039175

Status : Answered

Chosen Option : 1

Q.56 Which of the following accurately gives the average value of induced EMF per turn of the single-phase transformer?

- Ans ☒ 1. $4 \times \text{frequency of supply} \times \text{maximum flux in the core}$
- ☒ 2. $1.11 \times \text{frequency of supply} \times \text{maximum flux in the core}$
- ☒ 3. $\text{Frequency of supply} \times \text{maximum flux in the core}$
- ☒ 4. $4.44 \times \text{frequency of supply} \times \text{maximum flux in the core}$

Question Type : MCQ

Question ID : 441009258239

Option 1 ID : 4410091006796

Option 2 ID : 4410091006799

Option 3 ID : 4410091006797

Option 4 ID : 4410091006798

Status : Answered

Chosen Option : 1

Q.57 राज्य प्रदूषण नियंत्रण बोर्ड के कार्य के बारे में गलत कथन का चयन कीजिए।

- Ans ☒ 1. इसमें वायु प्रदूषण नियंत्रण क्षेत्रों का निरीक्षण करने की शक्ति है।
- ☒ 2. यह वायु प्रदूषण से संबंधित जानकारी एकत्र और प्रसारित कर सकता है।
- ☒ 3. यह जहाज और विमान द्वारा उत्सर्जन के मानक निर्धारित कर सकता है।
- ☒ 4. यह अपने कार्यों को करने के लिए प्रयोगशालाओं की स्थापना या पहचान कर सकता है।

Question Type : MCQ

Question ID : 441009221725

Option 1 ID : 441009869232

Option 2 ID : 441009869233

Option 3 ID : 441009869234

Option 4 ID : 441009869235

Status : Answered

Chosen Option : 3

Q.58 Why is cold junction compensation used in a thermocouple?

- Ans ☒ 1. To reduce the noise in the output signal
- ☒ 2. To compensate for the temperature of the cold junction
- ☒ 3. To protect the thermocouple from damage
- ☒ 4. To increase the sensitivity of the thermocouple

Question Type : MCQ

Question ID : 441009258427

Option 1 ID : 4410091007549

Option 2 ID : 4410091007550

Option 3 ID : 4410091007551

Option 4 ID : 4410091007548

Status : Answered

Chosen Option : 2

Q.59 Mutual inductance is the working principle of which of the following machines?

- Ans ☒ 1. DC generator
☒ 2. Synchronous motor
☒ 3. Transformer
☒ 4. Alternator

Question Type : MCQ

Question ID : 441009258227

Option 1 ID : 4410091006748

Option 2 ID : 4410091006750

Option 3 ID : 4410091006751

Option 4 ID : 4410091006749

Status : Answered

Chosen Option : 3

Q.60 प्रत्यक्ष श्रमिक वह होता है जो वास्तव में कार्य करता है और सामग्री को अंतिम उत्पाद में बदलने के लिए संसाधित करता है। प्रत्यक्ष _____ से जुड़ी लागत को _____ लागत कहा जाता है।

- Ans ☒ 1. उत्पाद; श्रम
☒ 2. बिक्री; श्रम
☒ 3. श्रम; श्रम
☒ 4. लागत; श्रम

Question Type : MCQ

Question ID : 441009222162

Option 1 ID : 441009870902

Option 2 ID : 441009870901

Option 3 ID : 441009870899

Option 4 ID : 441009870900

Status : Answered

Chosen Option : 3

Q.61 Which type of transformers are suitable for low kVA rating applications?

- Ans ☒ 1. Core type transformers
☒ 2. Shell type transformers
☒ 3. Control type transformers
☒ 4. Isolation transformers

Question Type : MCQ

Question ID : 441009258223

Option 1 ID : 4410091006732

Option 2 ID : 4410091006733

Option 3 ID : 4410091006734

Option 4 ID : 4410091006735

Status : Answered

Chosen Option : 2

Q.62 निम्नलिखित में से कौन-सा ध्वनि प्रदूषण का प्रभाव नहीं है?

Ans ☒ 1. अनिद्रा

☒ 2. मस्तिष्क के स्वास्थ्य में सुधार

☒ 3. पाचन विकार

☒ 4. उच्च रक्तचाप

Question Type : **MCQ**

Question ID : **441009221738**

Option 1 ID : **441009869284**

Option 2 ID : **441009869287**

Option 3 ID : **441009869285**

Option 4 ID : **441009869286**

Status : **Answered**

Chosen Option : **2**

Q.63 Which of the following materials has the lowest resistivity?

Ans ☒ 1. Manganese

☒ 2. Nickel

☒ 3. Iron

☒ 4. Tungsten

Question Type : **MCQ**

Question ID : **441009226619**

Option 1 ID : **441009887313**

Option 2 ID : **441009887315**

Option 3 ID : **441009887314**

Option 4 ID : **441009887316**

Status : **Answered**

Chosen Option : **3**

Q.64 What is the amplification factor of the Field Effect Transistor (FET) in a small signal FET model?

Ans ☒ 1. It is the product of drain resistance (r_D) to gate to source voltage (V_{GS}).

☒ 2. It is the product of transconductance (g_m) and drain to source voltage (V_{DS}).

☒ 3. It is the product of transconductance (g_m) and gate to source voltage (V_{GS}).

☒ 4. It is the product of transconductance (g_m) and the drain resistance (r_D).

Question Type : **MCQ**

Question ID : **44100946733**

Option 1 ID : **441009186076**

Option 2 ID : **441009186075**

Option 3 ID : **441009186074**

Option 4 ID : **441009186073**

Status : **Answered**

Chosen Option : **3**

Q.65 The main function of a flat plate collector is:

- Ans ☒ 1. to convert sunlight into electricity
- ☒ 2. to absorb radiation and use it for water heating or space heating
- ☒ 3. to concentrate sunlight to a small focal point
- ☒ 4. to track solar movement

Question Type : MCQ

Question ID : 441009221731

Option 1 ID : 441009869256

Option 2 ID : 441009869258

Option 3 ID : 441009869257

Option 4 ID : 441009869259

Status : Answered

Chosen Option : 2

Q.66 एक ट्रांसफार्मर में, कोर के ऊपरी और निचले क्षैतिज भाग को _____ कहा जाता है।

- Ans ☒ 1. एल.वी. वाइंडिंग (LV winding)
- ☒ 2. एल.वी. विद्युत-रोधन (LV insulation)
- ☒ 3. लिंब (limb)
- ☒ 4. योक (yoke)

Question Type : MCQ

Question ID : 441009258246

Option 1 ID : 4410091006826

Option 2 ID : 4410091006827

Option 3 ID : 4410091006824

Option 4 ID : 4410091006825

Status : Answered

Chosen Option : 3

Q.67 The number of select signals required in a 1 to 2 DEMUX is _____.

- Ans ☒ 1. two
- ☒ 2. three
- ☒ 3. one
- ☒ 4. zero

Question Type : MCQ

Question ID : 441009267489

Option 1 ID : 4410091039204

Option 2 ID : 4410091039207

Option 3 ID : 4410091039205

Option 4 ID : 4410091039206

Status : Answered

Chosen Option : 3

Q.68 A/An _____ is used as a secondary transducer in a load cell.

Ans ☒ 1. strain gauge

☒ 2. piezoelectric transducer

☒ 3. potentiometer

☒ 4. LVDT

Question Type : MCQ

Question ID : 441009258442

Option 1 ID : 4410091007611

Option 2 ID : 4410091007610

Option 3 ID : 4410091007608

Option 4 ID : 4410091007609

Status : Answered

Chosen Option : 1

Q.69 प्रोटीन संश्लेषण के दृष्टिकोण से सल्फर चक्र क्यों महत्वपूर्ण है ?

Ans ☒ 1. क्योंकि बैक्टीरिया सल्फर डाइऑक्साइड को सांस के ज़रिए अंदर लेते हैं और प्रोटीन में परिवर्तित करते हैं

☒ 2. क्योंकि सल्फर सामान्य अमीनो एसिड का एक घटक है

☒ 3. क्योंकि सल्फर डाइऑक्साइड के कारण प्रोटीन, अमीनो एसिड में विघटित हो जाते हैं

☒ 4. क्योंकि कृत्रिम प्रोटीन संश्लेषण के लिए हाइड्रोजन सल्फाइड की आवश्यकता होती है

Question Type : MCQ

Question ID : 441009221740

Option 1 ID : 441009869293

Option 2 ID : 441009869292

Option 3 ID : 441009869294

Option 4 ID : 441009869295

Status : Answered

Chosen Option : 4

Q.70 HDMI uses _____ type of digital video encoding.

Ans ☒ 1. TMDS

☒ 2. VGA

☒ 3. DVI

☒ 4. RGB

Question Type : MCQ

Question ID : 441009267572

Option 1 ID : 4410091039534

Option 2 ID : 4410091039533

Option 3 ID : 4410091039532

Option 4 ID : 4410091039535

Status : Answered

Chosen Option : 4

Q.71 यदि आप कार्यस्थल पर आपदा के घटना स्थल पर पहले व्यक्ति हैं, तो आपको _____।

- Ans ☒ 1. कम से कम एक सहकर्मी की सहायता लेनी चाहिए ताकि आप दोनों एक टीम के रूप में काम कर सकें
- ☒ 2. आपातकालीन प्रतिक्रिया प्रणाली को सक्रिय करना चाहिए
- ☒ 3. घटनास्थल पर जाना चाहिए और घायल व्यक्ति(व्यक्तियों) की सहायता करनी चाहिए
- ☒ 4. घटना का दस्तावेजीकरण करने के लिए आवश्यक फ़ॉर्म ढूँढ़ना चाहिए और उसे भरना चाहिए

Question Type : MCQ

Question ID : 441009222160

Option 1 ID : 441009870891

Option 2 ID : 441009870894

Option 3 ID : 441009870892

Option 4 ID : 441009870893

Status : Answered

Chosen Option : 2

Q.72 The length of time during which phosphorescence occurs is called _____ of phosphor.

- Ans ☒ 1. fluorescence
- ☒ 2. luminance
- ☒ 3. intensity
- ☒ 4. persistence

Question Type : MCQ

Question ID : 441009258443

Option 1 ID : 4410091007613

Option 2 ID : 4410091007614

Option 3 ID : 4410091007615

Option 4 ID : 4410091007612

Status : Answered

Chosen Option : 1

Q.73 _____ distribution systems are energised by two or more generating stations or substations.

- Ans ☒ 1. Central
- ☒ 2. Radial
- ☒ 3. Interconnected
- ☒ 4. Ring main

Question Type : MCQ

Question ID : 441009266295

Option 1 ID : 4410091034571

Option 2 ID : 4410091034568

Option 3 ID : 4410091034569

Option 4 ID : 4410091034570

Status : Answered

Chosen Option : 3

Q.74 A common objective in designing a product layout is _____.

- Ans ☒ 1. to minimise the profit
- ☒ 2. to minimise the material handling cost
- ☒ 3. to maximise the production rate
- ☒ 4. to minimise the number of workers

Question Type : **MCQ**
 Question ID : **441009222156**
 Option 1 ID : **441009870878**
 Option 2 ID : **441009870876**
 Option 3 ID : **441009870877**
 Option 4 ID : **441009870875**
 Status : **Answered**
 Chosen Option : **2**

Q.75 Select the correct statement about a video interface in a video system.

S1: It is used for transfer of information for visualisation.
 S2: VGA is an analogue interface only.
 S3: Digital video interface (DVI) is an analogue and digital interface.

- Ans ☒ 1. Only S1 and S2
- ☒ 2. Only S2
- ☒ 3. S1, S2 and S3
- ☒ 4. Only S1

Question Type : **MCQ**
 Question ID : **441009267580**
 Option 1 ID : **4410091039566**
 Option 2 ID : **4410091039565**
 Option 3 ID : **4410091039567**
 Option 4 ID : **4410091039564**
 Status : **Answered**
 Chosen Option : **1**

Q.76 निम्नलिखित कथनों पर विचार करें और सही विकल्प चुनें।

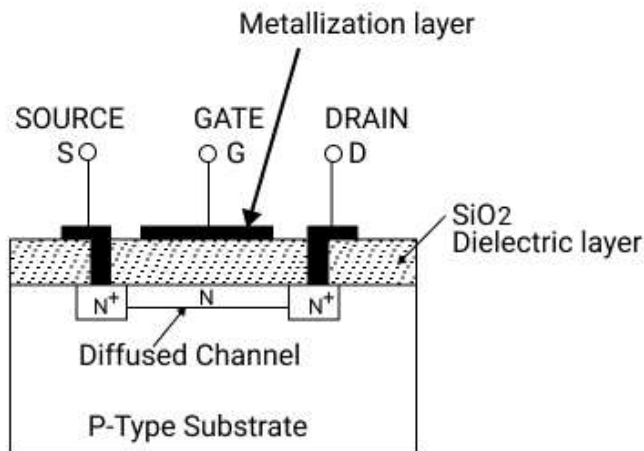
कथन 1: 85 dB से अधिक रव स्तर के लंबे समय तक संपर्क में रहने से स्थायी श्रवण हानि हो सकती है।

कथन 2: अस्थायी प्रभाव सीमा स्थानांतरण (TTS) तेज रव के अल्पकालिक संपर्क के कारण होने वाली स्थायी क्षति है।

- Ans ☒ 1. दोनों कथन सत्य हैं, तथा कथन 2 कथन 1 को सही ढंग से स्पष्ट करता है।
- ☒ 2. दोनों कथन सत्य हैं, लेकिन कथन 2 कथन 1 को स्पष्ट नहीं करता है।
- ☒ 3. कथन 1 असत्य है, लेकिन कथन 2 सत्य है।
- ☒ 4. कथन 1 सत्य है, लेकिन कथन 2 असत्य है।

Question Type : **MCQ**
 Question ID : **441009265036**
 Option 1 ID : **4410091030184**
 Option 2 ID : **4410091030185**
 Option 3 ID : **4410091030187**
 Option 4 ID : **4410091030186**
 Status : **Answered**
 Chosen Option : **2**

Q.77 Study the given figure carefully and answer the question that follows.



The given block diagram represents the _____.

- Ans ☒ 1. P-channel D-MOSFET structure
- ☒ 2. N-channel D-MOSFET structure
- ☒ 3. P-channel E-MOSFET structure
- ☒ 4. N-channel E-MOSFET structure

Question Type : MCQ

Question ID : 441009267357

Option 1 ID : 4410091038677

Option 2 ID : 4410091038676

Option 3 ID : 4410091038679

Option 4 ID : 4410091038678

Status : Answered

Chosen Option : 2

Q.78 Which of the following best describes a primary cell?

- Ans ☒ 1. A cell that converts stored electrical energy back into chemical energy.
- ☒ 2. A rechargeable cell that converts chemical energy into electrical energy.
- ☒ 3. A cell capable of storing electrical energy indefinitely for future use.
- ☒ 4. A non-rechargeable cell that converts stored chemical energy into electrical energy.

Question Type : MCQ

Question ID : 441009226580

Option 1 ID : 441009887158

Option 2 ID : 441009887157

Option 3 ID : 441009887160

Option 4 ID : 441009887159

Status : Answered

Chosen Option : 4

Q.79 Which of the following are digital-to-analog converters?

1. Successive approximation type
2. Weighted register type
3. R-2R ladder type

Ans ☒ 1. Only 2 and 3

☒ 2. Only 1

☒ 3. Only 1 and 3

☒ 4. Only 3

Question Type : **MCQ**

Question ID : **441009267482**

Option 1 ID : **4410091039179**

Option 2 ID : **4410091039176**

Option 3 ID : **4410091039178**

Option 4 ID : **4410091039177**

Status : **Answered**

Chosen Option : **3**

Q.80 The main working principle behind solar stills is:

Ans ☒ 1. thermo-electric effect

☒ 2. Tyndall effect

☒ 3. solar wind effect

☒ 4. solar-thermal energy conversion

Question Type : **MCQ**

Question ID : **441009221730**

Option 1 ID : **441009869254**

Option 2 ID : **441009869253**

Option 3 ID : **441009869252**

Option 4 ID : **441009869255**

Status : **Answered**

Chosen Option : **4**

Q.81 In Electronic Instrumentation, a Megger is commonly used to test:

Ans ☒ 1. frequency

☒ 2. power factor

☒ 3. capacitor voltage

☒ 4. insulation resistance

Question Type : **MCQ**

Question ID : **441009258407**

Option 1 ID : **4410091007470**

Option 2 ID : **4410091007471**

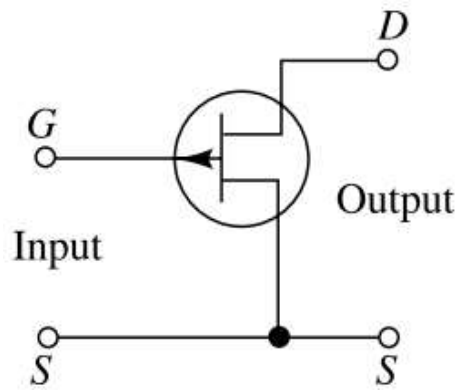
Option 3 ID : **4410091007468**

Option 4 ID : **4410091007469**

Status : **Answered**

Chosen Option : **4**

Q.82 Identify the given circuit.



Ans ☒ 1. P channel source follower JFET

☒ 2. p channel common source JFET

☒ 3. n channel common source JFET

☒ 4. n channel source follower JFET

Question Type : MCQ

Question ID : 441009267349

Option 1 ID : 4410091038647

Option 2 ID : 4410091038644

Option 3 ID : 4410091038645

Option 4 ID : 4410091038646

Status : Answered

Chosen Option : 2

Q.83 The main disadvantage of a plasma TV is that ____.

Ans ☒ 1. it has poor response time

☒ 2. its colour reproduction is poor

☒ 3. its refresh rate is very low

☒ 4. it consumes more power

Question Type : MCQ

Question ID : 441009267585

Option 1 ID : 4410091039585

Option 2 ID : 4410091039587

Option 3 ID : 4410091039586

Option 4 ID : 4410091039584

Status : Answered

Chosen Option : 4

Q.84 Consider the following Boolean function.

$$F(W, X, Y, Z) = \sum m(0, 1, 2, 4, 5, 6, 8, 9, 12, 13, 14)$$

What is the simplified form of function F (W, X, Y, Z)?
(Note: - in the options indicates compliment)

- Ans ☒ 1. $Y^- + WZ + XY^-$
☒ 2. $Y^- + W^-Z^- + XZ^-$
☒ 3. $W + X + Y + Z$
☒ 4. $Y^- + WZ + (ZY)^-$

Question Type : **MCQ**

Question ID : **441009267479**

Option 1 ID : **4410091039165**

Option 2 ID : **4410091039166**

Option 3 ID : **4410091039164**

Option 4 ID : **4410091039167**

Status : **Answered**

Chosen Option : 1

Q.85 For which of the following capacities of the transformer is the natural air cooling method used?

- Ans ☒ 1. Upto 200 kVA
☒ 2. Upto 100 kVA
☒ 3. Upto 300 kVA
☒ 4. Upto 400 kVA

Question Type : **MCQ**

Question ID : **441009258235**

Option 1 ID : **4410091006781**

Option 2 ID : **4410091006780**

Option 3 ID : **4410091006782**

Option 4 ID : **4410091006783**

Status : **Answered**

Chosen Option : 2

Q.86 By using a digital video interface-D (DVI-D), we can transfer ____.

- Ans ☒ 1. only digital audio signal
☒ 2. both digital audio and digital video signals
☒ 3. only digital video signal
☒ 4. both analogue audio and analogue video signals

Question Type : **MCQ**

Question ID : **441009267583**

Option 1 ID : **4410091039576**

Option 2 ID : **4410091039579**

Option 3 ID : **4410091039577**

Option 4 ID : **4410091039578**

Status : **Answered**

Chosen Option : 2

Q.87 Which of the following is NOT correct with reference to the material used in the construction of a transformer's core?

- Ans ☒ 1. It provides a magnetic path of minimum magnetic reluctance.
- ☒ 2. Its coercivity is very high.
- ☒ 3. It is of high permeability.
- ☒ 4. Its hysteresis curve is of small area.

Question Type : MCQ

Question ID : 441009258243

Option 1 ID : 4410091006815

Option 2 ID : 4410091006814

Option 3 ID : 4410091006812

Option 4 ID : 4410091006813

Status : Answered

Chosen Option : 2

Q.88 What is the hexadecimal equivalent of the binary number 1010?

- Ans ☒ 1. (9)₁₆
- ☒ 2. (10)₁₆
- ☒ 3. (A)₁₆
- ☒ 4. (8)₁₆

Question Type : MCQ

Question ID : 44100984042

Option 1 ID : 441009333900

Option 2 ID : 441009333903

Option 3 ID : 441009333902

Option 4 ID : 441009333901

Status : Answered

Chosen Option : 3

Q.89 How many selection lines are required for a 1:2 Demultiplexer?

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

Question Type : MCQ

Question ID : 44100981626

Option 1 ID : 441009324131

Option 2 ID : 441009324130

Option 3 ID : 441009324133

Option 4 ID : 441009324132

Status : Answered

Chosen Option : 1

Q.90 The standard voltage level of the primary distribution system is _____.

Ans ☒ 1. 11 kV

☒ 2. 230 V / 415 V

☒ 3. 66 kV

☒ 4. 22 kV

Question Type : MCQ

Question ID : 441009266296

Option 1 ID : 4410091034573

Option 2 ID : 4410091034574

Option 3 ID : 4410091034572

Option 4 ID : 4410091034575

Status : Answered

Chosen Option : 1

Q.91 A coil of wire has resistances of 350 Ω and 450 Ω at temperatures 0°C and 60°C, respectively. What is the temperature coefficient of the resistance of the wire?

Ans ☒ 1. $4.76 \times 10^{-3} / ^\circ\text{C}$

☒ 2. $3.25 \times 10^{-2} / ^\circ\text{C}$

☒ 3. $3.29 \times 10^{-2} / ^\circ\text{C}$

☒ 4. $1.28 \times 10^{-3} / ^\circ\text{C}$

Question Type : MCQ

Question ID : 441009226614

Option 1 ID : 441009887293

Option 2 ID : 441009887295

Option 3 ID : 441009887294

Option 4 ID : 441009887296

Status : Answered

Chosen Option : 1

Q.92 The term carbon in carbon footprint _____.

Ans ☒ 1. describes carbon monoxide only

☒ 2. does not include carbon dioxide

☒ 3. does not include nitrous oxide

☒ 4. describes the greenhouse gases

Question Type : MCQ

Question ID : 441009221728

Option 1 ID : 441009869247

Option 2 ID : 441009869245

Option 3 ID : 441009869244

Option 4 ID : 441009869246

Status : Answered

Chosen Option : 4

Q.93 In the context of advanced HDTV technology, which of the following technologies specifically addresses the issue of colour gamut expansion and provides more accurate colour reproduction?

- Ans ☒ 1. High Frame Rate (HFR) Processing
- ☒ 2. Organic Light Emitting Diode (OLED) Panels
- ☒ 3. Wide Colour Gamut (WCG) Technology
- ☒ 4. Backlight Bleeding Reduction

Question Type : **MCQ**

Question ID : **441009267577**

Option 1 ID : **4410091039554**

Option 2 ID : **4410091039552**

Option 3 ID : **4410091039555**

Option 4 ID : **4410091039553**

Status : **Answered**

Chosen Option : **3**

Q.94 How does an N channel MOSFET behave when $V_{GS} \leq 0$ V?

- Ans ☒ 1. It can work as an ON or OFF switch, depending on the drain-to-source voltage (V_{DS}).
- ☒ 2. It operates in the linear region.
- ☒ 3. It acts as an OFF switch.
- ☒ 4. It acts as an ON switch.

Question Type : **MCQ**

Question ID : **441009133900**

Option 1 ID : **441009532346**

Option 2 ID : **441009532345**

Option 3 ID : **441009532344**

Option 4 ID : **441009532343**

Status : **Answered**

Chosen Option : **1**

Q.95 Which of the following Acts seeks to provide appropriate safety measures to ensure the health and well-being of factory workers?

- Ans ☒ 1. The Employees' State Insurance Act, 1948
- ☒ 2. The Workmen's Compensation Act, 1923
- ☒ 3. The Factories Act, 1948
- ☒ 4. The Industrial Disputes Act, 1947

Question Type : **MCQ**

Question ID : **441009222159**

Option 1 ID : **441009870887**

Option 2 ID : **441009870889**

Option 3 ID : **441009870890**

Option 4 ID : **441009870888**

Status : **Answered**

Chosen Option : **2**

Q.96 Why is the rating of a transformer expressed in kVA rather than kW?

- Ans ☒ 1. To ensure the transformer operates efficiently at all load conditions
- ☒ 2. Because transformer losses depend only on the current and voltage, not the power factor
- ☒ 3. Because transformers operate at a high-power factor
- ☒ 4. Because kW measures apparent power, while kVA measures real power

Question Type : **MCQ**

Question ID : **441009258221**

Option 1 ID : **4410091006726**

Option 2 ID : **4410091006724**

Option 3 ID : **4410091006725**

Option 4 ID : **4410091006727**

Status : **Answered**

Chosen Option : **2**

Q.97 Which of the following statements accurately describes the difference between DVI-D and DVI-I interfaces?

- Ans ☒ 1. DVI-D and DVI-I are identical in functionality but differ in connector design.
- ☒ 2. DVI-D supports higher resolutions than DVI-I due to additional pins.
- ☒ 3. DVI-I supports both digital and analogue signals, while DVI-D supports only digital signals.
- ☒ 4. DVI-D supports both digital and analogue signals, while DVI-I supports only digital signals.

Question Type : **MCQ**

Question ID : **441009267576**

Option 1 ID : **4410091039550**

Option 2 ID : **4410091039551**

Option 3 ID : **4410091039549**

Option 4 ID : **4410091039548**

Status : **Answered**

Chosen Option : **1**

Q.98 Law of machine is _____, where P = effort applied, W = load lifted, m = slope of the line (represents the rate of increase in effort with load), c = constant (effort needed to overcome friction when W = 0), and x and y are variables.

- Ans ☒ 1. $P = mx + c$
- ☒ 2. $y = mx + c$
- ☒ 3. $P = mW + c$
- ☒ 4. $W = mP + c$

Question Type : **MCQ**

Question ID : **441009226144**

Option 1 ID : **441009885399**

Option 2 ID : **441009885398**

Option 3 ID : **441009885400**

Option 4 ID : **441009885401**

Status : **Answered**

Chosen Option : **3**

Q.99 Which of the following statements are correct about EEPROM?

S1: It is also known as Electrically Erasable PROM.

S2: EEPROM can be erased in a very short time.

S3: Intel 2816 was the original EEPROM.

S4: EEPROM can be erased as well as programmed.

Ans ☒ 1. All of S1, S2, S3 and S4

☒ 2. Only S1, S2 and S4

☒ 3. Only S1, S2 and S3

☒ 4. Only S3 and S4

Question Type : **MCQ**

Question ID : **441009267490**

Option 1 ID : **4410091039211**

Option 2 ID : **4410091039208**

Option 3 ID : **4410091039210**

Option 4 ID : **4410091039209**

Status : **Answered**

Chosen Option : 1

Q.10 An AC potentiometer is used for the measurement of ____.
0

Ans ☒ 1. capacitance

☒ 2. frequency

☒ 3. self-inductance

☒ 4. resistance

Question Type : **MCQ**

Question ID : **441009258440**

Option 1 ID : **4410091007601**

Option 2 ID : **4410091007602**

Option 3 ID : **4410091007600**

Option 4 ID : **4410091007603**

Status : **Answered**

Chosen Option : 4