



एनर्जी एफिशिएंसी सर्विसेज लिमिटेड

भारत सरकार, विद्युत मंत्रालय के सार्वजनिक क्षेत्र के उपक्रम की संयुक्त उद्यम कंपनी

ENERGY EFFICIENCY SERVICES LIMITED

A JV of PSUs under the Ministry of Power

Participant ID	
Participant Name	www.exammix.com
Test Center Name	
Test Date	23/10/2020
Test Time	9:00 AM - 11:00 AM
Subject	Assistant Engineer(Technical)

Section : General Knowledge

Q.1 निम्नलिखित में से किस राज्य में बिनसर वन्य जीव अभयारण्य स्थित है?

- Ans
- 1. पश्चिम बंगाल
 - 2. तमिलनाडु
 - 3. राजस्थान
 - 4. उत्तराखंड

Question ID : 9767551686

Status : Not Answered

Chosen Option : --

Q.2 24 अगस्त, 2019 को दोनों देशों के बीच संबंधों को मजबूत करने के लिए संयुक्त अरब अमीरात (UAE) ने अपनी 'महत्वपूर्ण भूमिका' के लिए _____ को, यू. ए. ई.(UAE) के सर्वोच्च नागरिक पुरस्कार 'द ऑर्डर ऑफ़ ज़ायद' से सम्मानित किया।

- Ans
- 1. कनाडा के प्रधानमंत्री
 - 2. ऑस्ट्रेलिया के प्रधानमंत्री
 - 3. ब्रिटेन के प्रधानमंत्री
 - 4. भारत के प्रधानमंत्री

Question ID : 9767551687

Status : Answered

Chosen Option : 4

Q.3 Name the writer of the book 'Article 370 : A Constitutional History of Jammu and Kashmir'.

- Ans
- 1. A.G. Noorani
 - 2. Vikram Seth
 - 3. K.R.A. Narasiah
 - 4. Arundhati Roy

Question ID : 9767551688

Status : Answered

Chosen Option : 1

Q.4 31 अक्टूबर, 2019 को लद्दाख के प्रथम उपराज्यपाल के रूप में किसने शपथ ग्रहण की?

- Ans
- 1. किरण बेदी
 - 2. सत्य पाल मलिक
 - 3. आर.के. माथुर
 - 4. प्रफुल्ल पटेल

Question ID : 9767551689
Status : Answered
Chosen Option : 3

Q.5 100 T20 अंतरराष्ट्रीय क्रिकेट खेलने वाली भारत की पहली क्रिकेटर बनने वाली भारतीय महिला क्रिकेट कप्तान का नाम बताइए:

- Ans
- 1. विजयालक्ष्मी
 - 2. यशस्वी जायसवाल
 - 3. अमरिंदर कौर
 - 4. हरमनप्रीत कौर

Question ID : 9767551690
Status : Answered
Chosen Option : 4

Q.6 निम्नलिखित में से कौन- सा त्योहार मैसूर महल में राजसी ढंग से मनाया जाता है?

- Ans
- 1. मकर संक्रांति
 - 2. दिवाली
 - 3. दशहरा
 - 4. राम नवमी

Question ID : 9767551683
Status : Answered
Chosen Option : 2

Q.7 दिल्ली के अन्वेषकों ने स्टेम कोशिकाओं में सुप्त तपेदिक (TB) के जीवाणुओं को नष्ट करने के लिए एक नई विधि खोज ली है। विश्व स्तर पर टी.बी. _____ ऐसी बीमारी है जो बहुत ही प्राणघातक है।

- Ans
- 1. पहली
 - 2. दूसरी
 - 3. तीसरी
 - 4. चौथी

Question ID : 9767551684
Status : Answered
Chosen Option : 1

Q.8 हाल ही में, निम्न में से किस संस्थान के अन्वेषकों ने अत्यधिक अस्थिर पर्कोसाइट (perovskite) को एक अत्यधिक स्थिर प्रकाशिक उत्प्रेरक (photo catalyst) में परिवर्तित किया है जो सामान्यतः पानी में मौजूद विषालु कार्बनिक प्रदूषकों को विघटित करने में सक्षम है?

- Ans
- 1. IIT, मंडी
 - 2. IIT, दिल्ली
 - 3. IIT, कानपुर
 - 4. IISER, पुणे

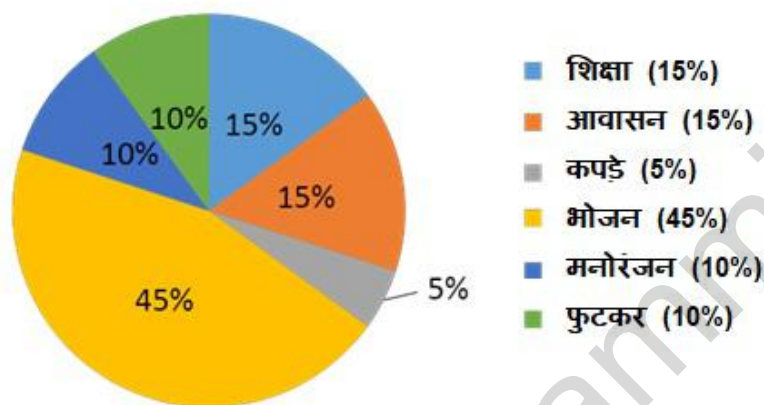
Question ID : 9767551685

Status : Answered

Chosen Option : 4

Section : Data Analysis and Interpretation

Q.1 निम्नलिखित पाई चार्ट विभिन्न वस्तुओं को लेकर एक परिवार के मासिक खर्च को दर्शाता है।



यदि खर्च की गई कुल राशि रुपये 48000 थी, तो आवास और कपड़ों पर संयुक्त रूप से खर्च की गई राशि _____ थी।

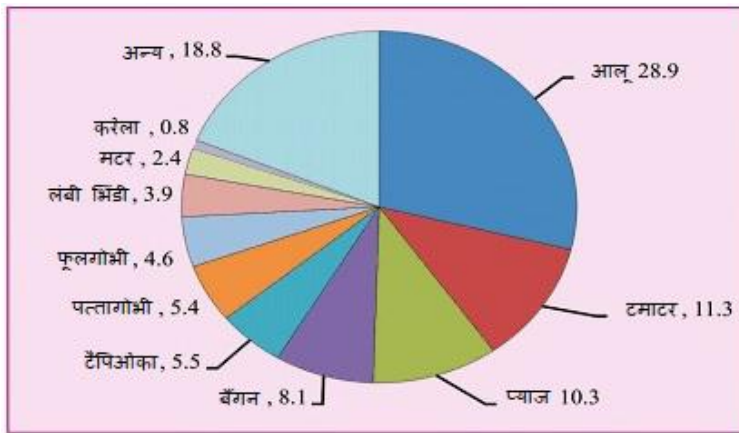
- Ans
- 1. रुपये 12000
 - 2. रुपये 9600
 - 3. रुपये 4800
 - 4. रुपये 8600

Question ID : 9767551696

Status : Answered

Chosen Option : 2

Q.2 नीचे दिया गया पाई ग्राफ भारत में कुल सब्जी उत्पादन में विभिन्न सब्जियों का प्रतिशत हिस्सा दर्शाता है



आलू के उत्पादन के लिए इसी क्षेत्र का सटीक केंद्रीय कोण (डिग्री में) क्या है?

- Ans
- 1. 104.04
 - 2. 104.4
 - 3. 104.5
 - 4. 104.09

Question ID : 9767551698
Status : Answered
Chosen Option : 1

Q.3 किसी निश्चित शहर का जुलाई, 2019 के दौरान 6 विभिन्न दिनों के अधिकतम तापमान (डिग्री सेंटीग्रेड में) निम्नलिखित बार ग्राफ में दिए गए हैं:

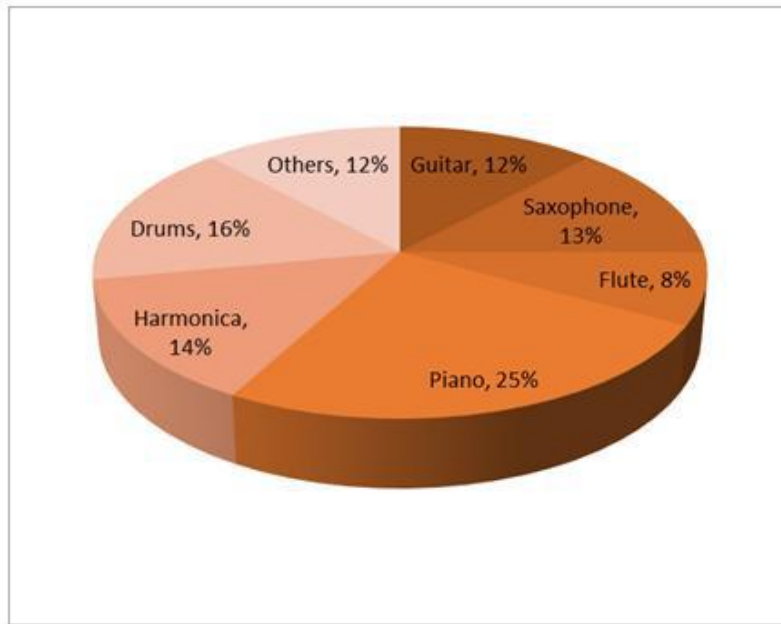


इन छह दिनों का अधिकतम औसत तापमान क्या है?

- Ans
- 1. 35.7 °C
 - 2. 35.37 °C
 - 3. 32.37 °C
 - 4. 36.37 °C

Question ID : 9767551691
Status : Answered
Chosen Option : 2

Q.4 A survey was made among 4540 people to find their favorite musical instrument. The following pie-chart shows the findings of this survey.



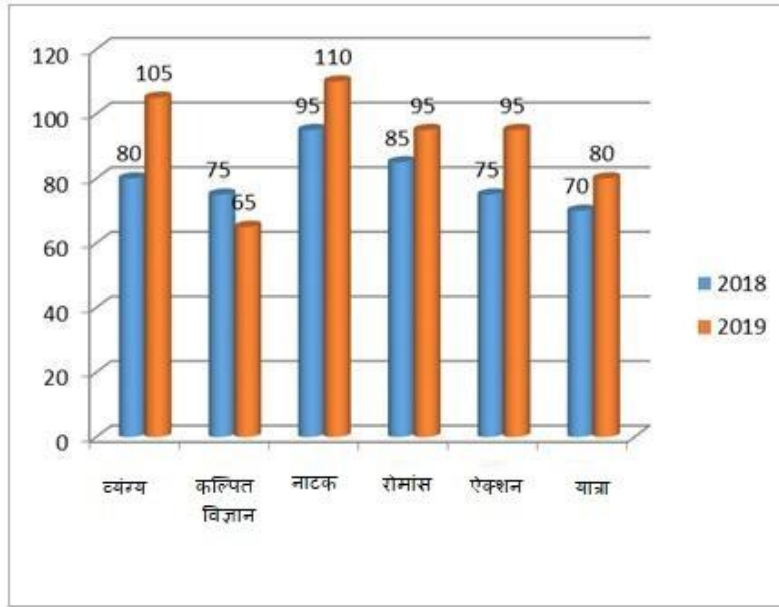
How many people liked piano?

- Ans
- 1. 1135
 - 2. 908
 - 3. 250
 - 4. 454

Question ID : 9767551695
Status : Answered
Chosen Option : 1

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Q.5 नीचे दिया गया बार ग्राफ लगातार दो वर्ष 2018 और 2019 के दौरान किसी प्रकाशन कंपनी की छह शाखाओं से पुस्तकों की बिक्री (संख्या हजार में) दिखाता है।



दोनों वर्षों को मिलाकर रोमांस की कुल बिक्री का, दोनों वर्षों की कल्पित विज्ञान की कुल बिक्री से अनुपात क्या है?

- Ans
- 1. 3 : 4
 - 2. 7 : 9
 - 3. 9 : 7
 - 4. 4 : 3

Question ID : 9767551693

Status : Answered

Chosen Option : 3

Q.6 निम्नलिखित बार ग्राफ अलग-अलग जनगणना के अनुसार एक शहर की आबादी (लाखों में) दिखाता है।

जनसंख्या में 1951 से 2001 तक प्रतिशत वृद्धि _____ हुई है।

- Ans
- 1. 100 प्रतिशत
 - 2. 44 प्रतिशत
 - 3. 144 प्रतिशत
 - 4. 31 प्रतिशत

Question ID : 9767551694

Status : Answered

Chosen Option : 3

Q.7 नीचे दिया गया ग्राफ छह भाषाओं में प्रकाशित, किसी कस्बे के समाचार पत्रों के प्रसार का प्रतिनिधित्व करता है:

हिंदी अखबार का प्रसार मराठी से कितना अधिक है?

- Ans
- 1. 400
 - 2. 500
 - 3. 600
 - 4. 300

Question ID : 9767551692

Status : Answered

Chosen Option : 2

Q.8 एक संगीत वाद्ययंत्र का प्रकार जानने के लिए एक सर्वेक्षण किया गया था जो कि भुवनेश्वर शहर में युवाओं के एक निश्चित समूह को पसंद आया था। निम्नलिखित पाई-चार्ट इस सर्वेक्षण के निष्कर्षों को दर्शाता है।

यदि 25 लोगों को बाँसुरी पसंद है, तो कुल कितने युवाओं का सर्वेक्षण किया गया था?

- Ans
- 1. 250
 - 2. 1000
 - 3. 343
 - 4. 100

Question ID : 9767551697

Status : Answered

Chosen Option : 1

Section : Numerical Ability

Q.1 नीलू 6 घंटे पैदल चलकर एक दूरी तय करता है, वापस लौटते समय उसकी गति 2 km/h कम हो जाती है और वही दूरी तय करने में उसे 9 घंटे लगते हैं। लौटते समय उसकी गति कितनी थी?

- Ans
- 1. 2 km/h
 - 2. 3 km/h
 - 3. 5 km/h
 - 4. 4 km/h

Question ID : 9767551706

Status : Answered

Chosen Option : 4

Q.2

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 9767551699

Status : Answered

Chosen Option : 4

Q.3

- Ans 1.8
 2.4
 3.2
 4.1

Question ID : 9767551703
Status : Answered
Chosen Option : 3

Q.4

- Ans 1.1
 2.310
 3.0
 4.69

Question ID : 9767551704
Status : Answered
Chosen Option : 1

Q.5 किराना बेचने वाला (गोसर) रुपये 27/kg की दर से 160 kg चावल की खरीद करता है और उसे रुपये 32/kg दर वाले 240 kg में मिला देता है। वह मिश्रित चावल को प्रति किलोग्राम कितने में बेचे कि उसे पूरा चावल बेचने पर 20 प्रतिशत लाभ हो?

- Ans 1. रुपये 46
 2. रुपये 36
 3. रुपये 56
 4. रुपये 26

Question ID : 9767551701
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.6 किसी त्रिभुज के तीनों कोणों का अनुपात 3 : 5 : 7 है। यह त्रिभुज किस प्रकार का है?

- Ans 1. अधिककोण त्रिभुज
 2. दिए गए विकल्पों में से कोई भी नहीं
 3. निम्नकोण त्रिभुज
 4. समकोण त्रिभुज

Question ID : 9767551702
Status : Answered
Chosen Option : 3

Q.7 A, B की तुलना में तीन गुना अच्छा काम करता है और इसलिए वह किसी कार्य को B के मुकाबले 30 दिन से कम समय में पूरा करने में सक्षम है। दोनों एक साथ मिल कर कार्य को कितने दिन में पूरा कर लेंगे?

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 9767551705
Status : Not Answered
Chosen Option : --

Q.8 कितनी धनराशि चक्रवृद्धि ब्याज संयोजित करने पर तीन साल में रुपये 4,499.04 हो जाएगी, यदि ब्याज की दर पहले वर्ष 3 प्रतिशत, दूसरे वर्ष 4 प्रतिशत और तीसरे वर्ष 5 प्रतिशत लगता है?

- Ans
- 1. रुपये 6,000
 - 2. रुपये 3,000
 - 3. रुपये 5,000
 - 4. रुपये 4,000

Question ID : 9767551700
Status : Answered
Chosen Option : 4

Section : Current Affairs

Q.1 गूगल (Google) द्वारा लॉन्च किया गया नया क्लाउड-बेस्ड गेम स्ट्रीमिंग सर्विस निम्नलिखित में से कौन सा है?

- Ans
- 1. पारसेक (Parsec)
 - 2. प्ले स्टेशन नॉव (PlayStation Now)
 - 3. स्टेडिया (Stadia)
 - 4. जी फ़ोर्स नॉव (GeForce Now)

Question ID : 9767551707
Status : Answered
Chosen Option : 2

Q.2 उस भारतीय एथलीट का नाम बताइए जिसे हाल ही में इंटरनेशनल असोसिएशन ऑफ एथलेटिक्स फेडरेशन (आई.ए.ए.एफ.) के वेटेरन पिन प्राइज़ (Association of Athletics Federation (IAAF) Veteran Pin Prize) 2019 से सम्मानित किया गया?

- Ans
- 1. हिमा दास
 - 2. पी.टी. उषा
 - 3. नीरज चोपड़ा
 - 4. अंजू बाँबी जॉर्ज

Question ID : 9767551714
Status : Answered
Chosen Option : 2

Q.3 रीसेट: रिगेनिंग इंडियाज़ इकॉनॉमिक लीगेसी' (Reset: Regaining India's Economic Legacy) के लेखक कौन हैं?

- Ans
- 1. एच.एल. आहूजा
 - 2. सुब्रमण्यम स्वामी
 - 3. अमर्त्य सेन
 - 4. मनमोहन सिंह

Question ID : 9767551712
Status : Answered
Chosen Option : 1

Q.4 बुडापेस्ट कन्वेंशन (Budapest Convention) में होने वाली संधि, एक अनोखी संधि है। उस संधि का नाम बताएं?

- Ans
- 1. मानव तस्करी
 - 2. मादक पदार्थों की लत
 - 3. साइबर अपराध
 - 4. बाल श्रम

Question ID : 9767551708
Status : Answered
Chosen Option : 2

Q.5 उस प्रथम भारतीय मुक्केबाज़ का नाम बताइए जिसने 'वर्ल्ड बॉक्सिंग चैम्पियनशिप' 2019 में रजत पदक जीता?

- Ans
- 1. प्रवीण कुमार
 - 2. मैरी कॉम
 - 3. विजेन्द्र सिंह
 - 4. अमित पंगहल

Question ID : 9767551713
Status : Answered
Chosen Option : 4

Q.6 Which one among the following is the Oxford Word of the Year 2019?

- Ans
- 1. Toxic
 - 2. Youthquake
 - 3. Climate Emergency
 - 4. Post-Truth

Question ID : 9767551711
Status : Answered
Chosen Option : 2

Q.7 Government e-commerce portal GeM has launched a national outreach programme in Dec 2019 called:

- Ans
- 1. GeM Enterprises
 - 2. GeM Marketplace
 - 3. GeM Samvaad
 - 4. GeM Vaarta

Question ID : 9767551709
Status : Not Answered
Chosen Option : --

Q.8 अंतर्राष्ट्रीय आपदा जोखिम न्यूनीकरण दिवस, प्रतिवर्ष किस तिथि को मनाया जाता है?

- Ans
- 1. 17 अक्टूबर
 - 2. 24 अक्टूबर
 - 3. 13 अक्टूबर
 - 4. 5 अक्टूबर

Question ID : 9767551710
Status : Not Answered
Chosen Option : --

Section : English

Q.1 Select the most appropriate meaning of the following idiom:

Below the belt

- Ans
- 1. Jeans
 - 2. Fair
 - 3. Unfair
 - 4. Trouser

Question ID : 9767551720
Status : Answered
Chosen Option : 3

Q.2 Choose the most appropriate option to fill in the blank.

A live ass is _____ than a dead lion.

- Ans
- 1. stronger
 - 2. strange
 - 3. strongest
 - 4. strong

Question ID : 9767551718
Status : Answered
Chosen Option : 1

Q.3 The following sentence has been divided into four parts. One of them contains an error. Select the part that contains the error from the given options.

Pawan went to / school as soon as / he finished / her meal.

- Ans
- 1. he finished
 - 2. her meal
 - 3. school as soon as
 - 4. Pawan went to

Question ID : 9767551715
Status : Answered
Chosen Option : 2

Q.4 Select the most appropriate ANTONYM of the given word.

DWINDLE

- Ans
- 1. Increase
 - 2. Reduce
 - 3. Abate
 - 4. Diminish

Question ID : 9767551717
Status : Not Answered
Chosen Option : --

Q.5 Select the most appropriate synonym of the given word.

VENOM

- Ans
- 1. Valor
 - 2. Poison
 - 3. Pious
 - 4. Vanity

Question ID : 9767551722
Status : Answered
Chosen Option : 2

Q.6 Choose the correctly spelt word from the given options.

- Ans
- 1. Personnal
 - 2. Perssnal
 - 3. Personnel
 - 4. Parsonnel

Question ID : 9767551719
Status : Answered
Chosen Option : 3

Q.7 Select the option that can be used as a one-word substitute for the given group of words.

A person who loves or collects books

- Ans 1. Bibliophile
 2. Cynic
 3. Fatalist
 4. Demagogue

Question ID : 9767551721
Status : Answered
Chosen Option : 1

Q.8 Select the option that expresses the given sentence in reported speech.

"I have not seen you in years", I said to him.

- Ans 1. I told him that I have not saw him for years.
 2. I told him that he had not seen me for years.
 3. I told him that I had not seen him for years.
 4. I told him that I have not seen him for years.

Question ID : 9767551716
Status : Answered
Chosen Option : 3

Section : Questions on Subject Discipline

Q.1 _____ is carried out by adding chemicals to the boiler to prevent the formation of scale.

- Ans 1. External treatment
 2. Internal treatment
 3. Blow down
 4. Measurement

Question ID : 9767551767
Status : Answered
Chosen Option : 3

Q.2 Which of the following is NOT a factor to be considered for furnace functioning?

- Ans 1. Oil-fired furnaces mostly use furnace oil, especially for reheating and heat treatment of materials.
 2. Light Diesel Oil (LDO) is used in furnaces where phosphorus is undesirable.
 3. Induction and arc furnaces use electricity to melt steel and cast iron.
 4. Most furnaces use liquid fuel, gaseous fuel or electricity as energy input.

Question ID : 9767551773
Status : Answered
Chosen Option : 2

Q.3 The minimum illuminance for all non-working interiors as per IS 3646 is _____.

- Ans
- 1. 10 Lux
 - 2. 20 Lux
 - 3. 30 Lux
 - 4. 40 Lux

Question ID : 9767551747
Status : Answered
Chosen Option : 2

Q.4 The pusher type of furnace is popular in the _____ industry.

- Ans
- 1. aluminium
 - 2. steel
 - 3. nickel
 - 4. iron

Question ID : 9767551774
Status : Answered
Chosen Option : 2

Q.5 The aims to promote efficient use of energy at the residential level:

- Ans
- 1. SAPHALA
 - 2. MEEP
 - 3. UJWALA
 - 4. UJALA

Question ID : 9767551802
Status : Answered
Chosen Option : 2

Q.6 Liquid enthalpy is measured in terms of:

- Ans
- 1. Cal/g
 - 2. kCal/g
 - 3. Cal/Kg
 - 4. kCal/Kg

Question ID : 9767551769
Status : Answered
Chosen Option : 4

Q.7 _____ prevent dust from entering the compressor.

- Ans
- 1. Receivers
 - 2. After coolers
 - 3. Intake air filters
 - 4. Inter-stage coolers

Question ID : 9767551736
Status : Answered
Chosen Option : 3

Q.8 PFBC (pressurised fluidised bed combustion) is a variation of fluid bed technology that is meant for _____ coal burning applications.

- Ans
- 1. large scale
 - 2. uncommon
 - 3. small scale
 - 4. narrow

Question ID : 9767551781
Status : Answered
Chosen Option : 4

Q.9 Which among the following is NOT a type of combustion control?

- Ans
- 1. On/Off control
 - 2. Modulating control
 - 3. Turn on/off control
 - 4. High/low/off control

Question ID : 9767551763
Status : Answered
Chosen Option : 2

Q.10 _____ is a direct function of the quantity of water circulated and the heat load.

- Ans
- 1. Heat load
 - 2. Flow
 - 3. Range
 - 4. Approach

Question ID : 9767551744
Status : Answered
Chosen Option : 4

Q.11 The programme 'AJAY' initiated by Energy Efficiency Services Limited (EESL) has installed:

- Ans
- 1. LED lights
 - 2. Solar street lights
 - 3. Sewerage pumps
 - 4. Agricultural pumps

Question ID : 9767551800
Status : Answered
Chosen Option : 4

Q.12 How much voltage is generally generated at power plants in India?

- Ans
- 1. 132 kV
 - 2. 33 kV
 - 3. 66 kV
 - 4. 11 kV

Question ID : 9767551724
Status : Answered
Chosen Option : 4

Q.13 Indian Boilers Regulation (IBR) was created in exercise of the powers conferred by _____ of the Indian Boilers Act, 1923.

- Ans
- 1. Sections 38 and 39
 - 2. Sections 28 and 29
 - 3. Sections 18 and 19
 - 4. Sections 48 and 49

Question ID : 9767551766
Status : Answered
Chosen Option : 2

Q.14 In any heat recovery situation, it is essential to know the amount of _____ and how it can be used.

- Ans
- 1. energy
 - 2. heat recoverable
 - 3. heat
 - 4. steam

Question ID : 9767551790
Status : Answered
Chosen Option : 2

Q.15 In De-aeration, dissolved gases, such as oxygen and carbon dioxide, are expelled by _____ the feed water before it enters the boiler.

- Ans
- 1. post heating
 - 2. reheating
 - 3. closed-heating
 - 4. preheating

Question ID : 9767551768
Status : Answered
Chosen Option : 4

Q.16 The value by which the pressure in the pump suction exceeds the liquid vapour pressure is expressed as a head of liquid and is referred to as _____.

- Ans
- 1. NPPSHR
 - 2. NPSHR
 - 3. NPSH
 - 4. NPSHA

Question ID : 9767551743
Status : Answered
Chosen Option : 2

Q.17 Fixed losses are those that occur in the motor, irrespective of the _____ of load.

- Ans
- 1. efficiency
 - 2. maintenance
 - 3. resistance
 - 4. quantum

Question ID : 9767551730
Status : Answered
Chosen Option : 4

Q.18 Capacitors with automatic power factor controller when installed in a plant:

- Ans
- 1. increase the load current of the plant
 - 2. reduce the reactive power drawn from grid
 - 3. reduce the voltage of the plant
 - 4. reduce the active power drawn from grid

Question ID : 9767551754
Status : Answered
Chosen Option : 2

Q.19 Which type of overhead conductor is used in transmission and distribution?

- Ans
- 1. Aluminium
 - 2. ACSR
 - 3. Copper
 - 4. ASCR

Question ID : 9767551731
Status : Answered
Chosen Option : 2

Q.20 Which device converts electrical energy into mechanical energy by the interaction between the magnetic fields set up in the stator and rotor windings?

- Ans
- 1. Circuits
 - 2. Compressors
 - 3. Motors
 - 4. Transistors

Question ID : 9767551732
Status : Answered
Chosen Option : 3

Q.21 Which of the following points need NOT be considered while selecting a refractory?

- Ans
- 1. Working temperatures
 - 2. Electric load of the furnace
 - 3. Area of application
 - 4. Extent of abrasion and impact

Question ID : 9767551780
Status : Answered
Chosen Option : 2

Q.22 The major energy in steam is in its _____.

- Ans
- 1. latent heat value
 - 2. heat
 - 3. pressure
 - 4. temperature

Question ID : 9767551789
Status : Answered
Chosen Option : 1

Q.23 Replacement of inefficient municipal and sewerage pump sets in 500 AMRUT cities is the scheme initiated under:

- Ans 1. MEEP
 2. UJWALA
 3. UJALA
 4. SAPHALA

Question ID : 9767551801
Status : Answered
Chosen Option : 1

Q.24 The process of machining the diameter of an impeller to reduce the energy added to the system fluid is called _____.

- Ans 1. axial trimming
 2. impeller trimming
 3. pulley change
 4. blower trimming

Question ID : 9767551741
Status : Answered
Chosen Option : 2

Q.25 The electricity rules followed in India are actually based on the guidelines given by:

- Ans 1. Indian Electricity Rules
 2. Power Grid Corporation of India
 3. Institution of Electrical and Electronic Engineers
 4. Institution of Engineers

Question ID : 9767551723
Status : Answered
Chosen Option : 1

Q.26 _____ is mechanically removed in a de-aerator.

- Ans 1. Carbon dioxide
 2. Oxygen
 3. Water
 4. Sulphur

Question ID : 9767551796
Status : Answered
Chosen Option : 4

Q.27 If maximum permissible limit of TDS as in a package boiler is 3000 ppm, percentage make up water is 10 percent and TDS in feed water is 300 ppm, then the percentage blow down is:

- Ans
- 1. 1 percent
 - 2. 3 percent
 - 3. 2 percent
 - 4. 100 percent

Question ID : 9767551794
Status : Answered
Chosen Option : 4

Q.28 The ideal method of compressor capacity assessment is through a _____.

- Ans
- 1. needle test
 - 2. puzzle test
 - 3. riddle test
 - 4. nozzle test

Question ID : 9767551733
Status : Answered
Chosen Option : 3

Q.29 The optimum efficiency of boilers occurs at _____ of full load.

- Ans
- 1. 45 - 65 percent
 - 2. 50 - 85 percent
 - 3. 65 - 85 percent
 - 4. 25 - 75 percent

Question ID : 9767551793
Status : Answered
Chosen Option : 2

Q.30 _____ is widely used for cooling tower casings and basins to ensure long life and protection.

- Ans
- 1. Mica
 - 2. Metal fibre
 - 3. Jute fibre
 - 4. Glass fibre

Question ID : 9767551750
Status : Answered
Chosen Option : 2

Q.31 Power factor correction capacitors have an internal loss called:

- Ans
- 1. Tan β (beta) loss
 - 2. Tan δ (delta) loss
 - 3. Tan γ (gamma) loss
 - 4. Tan ζ (zeta) loss

Question ID : 9767551758
Status : Answered
Chosen Option : 2

Q.32 Which of the following is NOT an application of heat pipes?

- Ans
- 1. Recovery of waste heat from furnaces
 - 2. Reheating of boiler combustion air
 - 3. Reheating of fresh air for hot air driers
 - 4. Recovery of waste heat from catalytic deodorising equipment

Question ID : 9767551791
Status : Answered
Chosen Option : 2

Q.33 The main components of LPG are:

- Ans
- 1. Hexane and Propane
 - 2. Nitrogen and Propane
 - 3. Butane and Sulphur
 - 4. Propane and Butane

Question ID : 9767551799
Status : Answered
Chosen Option : 4

Q.34 Which of the following is NOT a property of refractories?

- Ans
- 1. Porosity
 - 2. Cold crushing strength
 - 3. Heating point
 - 4. Melting point

Question ID : 9767551778
Status : Answered
Chosen Option : 1

Q.35 It is a general exercise in industry to _____ burnt-out motors.

- Ans
- 1. produce
 - 2. rewind
 - 3. generate
 - 4. redraw

Question ID : 9767551729
Status : Answered
Chosen Option : 4

Q.36 The number of feed points is increased, as it is necessary to distribute the fuel into the bed _____.

- Ans
- 1. uniformly
 - 2. in increasing order
 - 3. unevenly
 - 4. in decreasing order

Question ID : 9767551782
Status : Answered
Chosen Option : 1

Q.37 _____ is the last stage of the feed water system in a boiler.

- Ans
- 1. Aerator
 - 2. Economizer
 - 3. Deaerator
 - 4. Condenser

Question ID : 9767551764
Status : Answered
Chosen Option : 2

Q.38 Ignitors are used for starting _____.

- Ans
- 1. HTL
 - 2. Sodium vapour lamps
 - 3. CFL
 - 4. FL

Question ID : 9767551748
Status : Answered
Chosen Option : 4

Q.39 The overall thermal efficiency of an extraction condensing turbine cogeneration system is lower than that of a _____ turbine system.

- Ans
- 1. condensation pressure
 - 2. steam pressure
 - 3. back pressure
 - 4. low pressure

Question ID : 9767551784
Status : Answered
Chosen Option : 3

Q.40 _____ is used for transferring heat to a process in a boiler.

- Ans
- 1. Water
 - 2. Sulphur
 - 3. Oxygen
 - 4. Carbon dioxide

Question ID : 9767551797
Status : Answered
Chosen Option : 1

Q.41 Organic insulations are based on _____ polymers.

- Ans
- 1. nitrogen
 - 2. hydrogen
 - 3. hydrocarbon
 - 4. carbon

Question ID : 9767551779
Status : Answered
Chosen Option : 3

Q.42 Fuels such as coal, oil and natural gas are often referred to as _____.

- Ans
- 1. energy fuels
 - 2. alternate fuels
 - 3. fossil fuels
 - 4. renewable fuels

Question ID : 9767551760
Status : Answered
Chosen Option : 3

Q.43 _____ is used in furnaces where presence of sulphur is undesirable.

- Ans 1. LDO
 2. LSHS
 3. Petroleum
 4. Furnace oil

Question ID : 9767551775
Status : Answered
Chosen Option : 1

Q.44 The typical life of a CFL is:

- Ans 1. 4000 hours
 2. 2000 hours
 3. 8000 hours
 4. 5000 hours

Question ID : 9767551746
Status : Answered
Chosen Option : 3

Q.45 _____ are a major source of electricity supply in India.

- Ans 1. Hydro power plants
 2. Nuclear power plants
 3. Wind power plants
 4. Thermal power plants

Question ID : 9767551786
Status : Answered
Chosen Option : 4

Q.46 Bimetallic steam traps operate on the same principle as _____.

- Ans 1. Thermistor
 2. Coil
 3. Thermostat
 4. Resistor

Question ID : 9767551792
Status : Answered
Chosen Option : 3

Q.47 What is the ratio of power factor?

- Ans
- 1. kVA / kW
 - 2. kW / kVAr
 - 3. kVAr / kW
 - 4. kW / kVA

Question ID : 9767551727
Status : Answered
Chosen Option : 2

Q.48 If the speed of the centrifugal pump is doubled, power goes up by _____.

- Ans
- 1. eight times
 - 2. six times
 - 3. two times
 - 4. four times

Question ID : 9767551742
Status : Answered
Chosen Option : 1

Q.49 Shortage of air or surplus of fuel or poor distribution of fuel can lead to _____.

- Ans
- 1. combustion
 - 2. boiler efficiency
 - 3. incomplete combustion
 - 4. high steam pressure

Question ID : 9767551765
Status : Answered
Chosen Option : 3

Q.50 Two stroke and four stroke are classifications of:

- Ans
- 1. CF set
 - 2. CI set
 - 3. DG set
 - 4. DM set

Question ID : 9767551751
Status : Answered
Chosen Option : 3

Q.51 Which of the following is NOT a type of natural gas?

- Ans
- 1. RLNG
 - 2. LNG
 - 3. CNG
 - 4. PHG

Question ID : 9767551798
Status : Answered
Chosen Option : 4

Q.52 The ____ trap operates by sensing the difference in density between steam and condensate.

- Ans
- 1. thermodynamic
 - 2. ball float
 - 3. inverted bucket
 - 4. thermostatic

Question ID : 9767551771
Status : Answered
Chosen Option : 1

Q.53 Which form of coal has a high percentage of fixed carbon and low percentage of volatile matter?

- Ans
- 1. Anthracite
 - 2. Lignite
 - 3. Bituminous
 - 4. Natural coal

Question ID : 9767551762
Status : Answered
Chosen Option : 1

Q.54 Along with the saving of fossil fuels, cogeneration also allows to ____ the emission of greenhouse gases.

- Ans
- 1. increase
 - 2. enhance
 - 3. reuse
 - 4. reduce

Question ID : 9767551783
Status : Answered
Chosen Option : 4

Q.55 The quantity of heat required to change a chemical from liquid to gaseous state is called _____.

- Ans
- 1. latent heat
 - 2. energy
 - 3. heat
 - 4. super heat

Question ID : 9767551770
Status : Answered
Chosen Option : 1

Q.56 _____ generates the required heat exchange area by the splashing action of water over the fill media.

- Ans
- 1. Film fill media
 - 2. Media
 - 3. Fill media
 - 4. Splash fill media

Question ID : 9767551745
Status : Answered
Chosen Option : 4

Q.57 Waste heat recovery methods attempt to _____ some of the energy as work that, otherwise, would be wasted.

- Ans
- 1. extract
 - 2. increase
 - 3. release
 - 4. reduce

Question ID : 9767551787
Status : Answered
Chosen Option : 1

Q.58 The equipment used as a mechanical supporting structure for the ACSR conductor used for the transmission of electrical energy is known as _____.

- Ans
- 1. breaker
 - 2. transmission tower
 - 3. transformer
 - 4. CT/PT

Question ID : 9767551756
Status : Answered
Chosen Option : 2

Q.59 The colour rendering property of HPSV is _____.

- Ans 1. medium
 2. very low
 3. very high
 4. very dull

Question ID : 9767551749
Status : Answered
Chosen Option : 2

Q.60 A parallel air vent fitted outside the trap reduces start-up times in the _____ type of trap.

- Ans 1. thermodynamic
 2. thermostatic
 3. inverted-bucket
 4. ball-flat

Question ID : 9767551772
Status : Answered
Chosen Option : 1

Q.61 _____ is mainly used as cold insulation for piping and cold storage construction.

- Ans 1. Nitrile rubber
 2. Thermocol
 3. Mineral wool
 4. Calcium silicate

Question ID : 9767551777
Status : Answered
Chosen Option : 4

Q.62 The specific power consumption for certain TR output does NOT include which of the following options?

- Ans 1. Chilled water pump
 2. Cooling rise fan
 3. Compressor
 4. Condenser water pump

Question ID : 9767551737
Status : Answered
Chosen Option : 3

Q.63 In a recuperator, heat exchange takes place between the flue gases and the _____ through metallic or ceramic walls.

- Ans
- 1. gases
 - 2. air
 - 3. nitrogen
 - 4. carbon

Question ID : 9767551788
Status : Answered
Chosen Option : 2

Q.64 The youngest form of coal from the geological perspective is _____.

- Ans
- 1. Bituminous
 - 2. Lignite
 - 3. Anthracite
 - 4. Grade D coal

Question ID : 9767551761
Status : Answered
Chosen Option : 2

Q.65 The forging furnace temperature is maintained at around _____.

- Ans
- 1. 2200 – 2250 °C
 - 2. 1000 – 1250 °C
 - 3. 900 – 1250 °C
 - 4. 1200 – 1250 °C

Question ID : 9767551776
Status : Answered
Chosen Option : 4

Q.66 For which of the following applications are occupancy sensors best suited?

- Ans
- 1. Daylight-based controllers
 - 2. Movement or noise detector in room space
 - 3. Motor controllers
 - 4. Night-based controllers

Question ID : 9767551755
Status : Answered
Chosen Option : 2

Q.67 In two-stroke engines, there is a lot of wastage of fuel since exhaust and fuel inlets are _____.

- Ans
- 1. open
 - 2. blocked
 - 3. not present
 - 4. closed

Question ID : 9767551752
Status : Answered
Chosen Option : 2

Q.68 Nowadays, most of the compressors are operated with the _____.

- Ans
- 1. in/out control
 - 2. left/right control
 - 3. up/down control
 - 4. on/off control

Question ID : 9767551734
Status : Answered
Chosen Option : 4

Q.69 _____ is one of the most important technical parameters influencing the selection of the type of cogeneration system.

- Ans
- 1. Heat-to-power ratio
 - 2. Fuel-to-heat ratio
 - 3. Heat-to-fuel ratio
 - 4. Power-to-heat ratio

Question ID : 9767551785
Status : Answered
Chosen Option : 1

Q.70 Whenever two transformers are operating in parallel, both should be technically identical in all aspects and, more importantly, should have the same impedance level. This minimises the _____.

- Ans
- 1. resistance
 - 2. losses
 - 3. circulating current
 - 4. frequency

Question ID : 9767551735
Status : Answered
Chosen Option : 3

Q.71 Which of the following does the symbol in the given image denote?

- Ans
- 1. Tie point
 - 2. Resistor
 - 3. Shielded wire
 - 4. Potentiometer

Question ID : 9767551725
Status : Answered
Chosen Option : 1

Q.72 The term 'system resistance' is used when referring to the _____.

- Ans
- 1. fan characteristics
 - 2. blowers
 - 3. compressors
 - 4. static pressure

Question ID : 9767551739
Status : Answered
Chosen Option : 1

Q.73 The maximum TDS ppm of a Lancashire boiler is _____.

- Ans
- 1. 7000 ppm
 - 2. 2000 ppm
 - 3. 5000 ppm
 - 4. 10000 ppm

Question ID : 9767551795
Status : Answered
Chosen Option : 3

Q.74 If the transformer is 100 percent efficient and its iron losses is 40 W, the value of copper losses will be:

- Ans
- 1. 80 W
 - 2. 40 W
 - 3. 10 W
 - 4. 20 W

Question ID : 9767551759
Status : Answered
Chosen Option : 2

Q.75 _____ provide a means of changing the air volume by adding or removing system resistance.

- Ans
- 1. Blowers
 - 2. Fans
 - 3. Dampers
 - 4. Centrifugal pumps

Question ID : 9767551740
Status : Answered
Chosen Option : 3

Q.76 Which of the following does the symbol in the given image denote?

- Ans
- 1. Connector
 - 2. Ground connection
 - 3. Synchro
 - 4. Chassis ground

Question ID : 9767551757
Status : Answered
Chosen Option : 4

Q.77 What is the ratio of load factor?

- Ans
- 1. Average load / maximum demand
 - 2. Connected load / maximum demand
 - 3. Average load / connected load
 - 4. Maximum load / average load

Question ID : 9767551726
Status : Answered
Chosen Option : 2

Q.78 _____ from exhaust gases gives one of the best opportunities in energy savings.

- Ans
- 1. Air recovery
 - 2. Heat recovery
 - 3. Water recovery
 - 4. Warmth recovery

Question ID : 9767551753
Status : Answered
Chosen Option : 2

Q.79 Centrifugal fans increase the speed of an air stream with a ____ impeller.

- Ans 1. rotating
 2. circulating
 3. moving
 4. vibrating

Question ID : 9767551738
Status : Answered
Chosen Option : 2

Q.80 The synchronous speed of a motor that has 6 poles and operates at 50 Hz frequency is _____.

- Ans 1. 1000
 2. 1500
 3. 3000
 4. 750

Question ID : 9767551728
Status : Answered
Chosen Option : 1

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