Participant ID	
Participant Name	
Test Center Name	
Test Date	29/09/2024
Test Time	1:30 PM - 3:30 PM
Subject	Junior Engineering Assistant IV Instrumentation

Section : **Subject Knowledge**

Q.1 **Which of the following statements is true about TRIAC?**

Ans
✗ A. It is a two-terminal unidirectional device.
✗ B. It is a two-terminal bidirectional device.
✓ C. It is a three-terminal bidirectional device.
✗ D. It is a three-terminal unidirectional device.

Question ID : **630680201311**
Option 1 ID : **630680780594**
Option 2 ID : **630680780592**
Option 3 ID : **630680780591**
Option 4 ID : **630680780593**
Status : **Answered**
Chosen Option : **C**

Q.2 **Which type of cameras are often used in a distributed control system (DCS) to monitor processes?**

Ans
✓ A. Thermovision cameras
✗ B. Security cameras
✗ C. High-speed cameras
✗ D. Digital cameras

Question ID : **630680963831**
Option 1 ID : **6306803779875**
Option 2 ID : **6306803779876**
Option 3 ID : **6306803779877**
Option 4 ID : **6306803779874**
Status : **Answered**
Chosen Option : **A**

Q.3 **_____ produces an EMF due the temperature difference at the junction of two dissimilar metals.**

Ans
✓ A. Thermocouple
✗ B. Strain gauge
✗ C. Resistance temperature detector
✗ D. Thermistor

Question ID : **630680195089**
Option 1 ID : **630680756847**
Option 2 ID : **630680756848**
Option 3 ID : **630680756845**
Option 4 ID : **630680756846**
Status : **Answered**
Chosen Option : **A**

Q.4 In a series R-L-C circuit, the resonant frequency is 500 Hz. Which of the following statements is/are correct?
(a) At frequency 400 Hz the circuit is capacitive in nature.
(b) At frequency 300 Hz the circuit is inductive in nature.
(c) The maximum voltage across the capacitor alone occurs at a frequency < 500 Hz.
(d) The maximum voltage across the inductor alone occurs at a frequency > 500 Hz.

Ans
✗ A. c and d only
✓ B. a, c and d
✗ C. a, b, c and d
✗ D. a, b and d

Question ID : **630680209217**
Option 1 ID : **630680811085**
Option 2 ID : **630680811084**
Option 3 ID : **630680811083**
Option 4 ID : **630680811086**
Status : **Answered**
Chosen Option : **B**

Q.5 Which of the following is NOT a pattern of a ball valve?

Ans
✗ A. Reduced Port
✗ B. Full Port
✗ C. Venture Port
✓ D. Rectangular Port

Question ID : **630680969338**
Option 1 ID : **6306803801857**
Option 2 ID : **6306803801856**
Option 3 ID : **6306803801855**
Option 4 ID : **6306803801858**
Status : **Answered**
Chosen Option : **B**

Q.6 For which of the following substances under fire, can TEC powder based extinguisher NOT be used?

Ans
✓ A. Natural gas
✗ B. Potassium
✗ C. Sodium
✗ D. Lithium

Question ID : **6306801000147**
Option 1 ID : **6306803924722**
Option 2 ID : **6306803924721**
Option 3 ID : **6306803924720**
Option 4 ID : **6306803924719**
Status : **Answered**
Chosen Option : **A**

Q.7 In a radiation pyrometer, which of the following principles is utilised for temperature measurement?

Ans
✗ A. Wien's displacement law
✗ B. Hall effect
✓ C. Stefan-Boltzmann law
✗ D. Thermocouple effect

Question ID : **630680392708**
Option 1 ID : **6306801531171**
Option 2 ID : **6306801531173**
Option 3 ID : **6306801531172**
Option 4 ID : **6306801531170**
Status : **Answered**
Chosen Option : **C**

Q.8 Which of the following can be considered as an advantage of a transducer?

Ans
✗ A. Limited applicability
✗ B. Low sensitivity to environmental conditions
✗ C. Very high power dissipation
✓ D. High efficiency of energy conversion

Question ID : **630680374875**
Option 1 ID : **6306801460668**
Option 2 ID : **6306801460670**
Option 3 ID : **6306801460669**
Option 4 ID : **6306801460667**
Status : **Answered**
Chosen Option : **D**

Q.9 Ramp type digital voltmeter operates on the principle of _____ conversion.

Ans
- ✔ A. voltage to time
- ✘ B. time to voltage
- ✘ C. frequency to voltage
- ✘ D. voltage to frequency

Question ID : **630680195052**
Option 1 ID : **630680756697**
Option 2 ID : **630680756699**
Option 3 ID : **630680756700**
Option 4 ID : **630680756698**
Status : **Answered**
Chosen Option : **C**

Q.10 The maximum length of a Process Field Bus (PROFIBUS) network is _____.

Ans
- ✘ A. 900 m
- ✘ B. 600 m
- ✘ C. 1500 m
- ✔ D. 1200 m

Question ID : **630680961864**
Option 1 ID : **6306803771650**
Option 2 ID : **6306803771649**
Option 3 ID : **6306803771652**
Option 4 ID : **6306803771651**
Status : **Answered**
Chosen Option : **D**

Q.11 Which of the following options represents characteristic(s) of bellows?

Ans
- ✔ A. Flexibility and ductility
- ✘ B. High tensile strength and solid nature
- ✘ C. High density
- ✘ D. Lustrous appearance and malleability

Question ID : **630680392695**
Option 1 ID : **6306801531119**
Option 2 ID : **6306801531118**
Option 3 ID : **6306801531121**
Option 4 ID : **6306801531120**
Status : **Answered**
Chosen Option : **B**

Q.12 Which of the following types of PLC is a control system that uses programmable hardware components instead of a fixed-function controller?

Ans
- ✔ A. Modular PLC
- ✘ B. Compact PLC
- ✘ C. Both modular PLC and compact PLC
- ✘ D. Neither modular PLC nor compact PLC

Question ID : **630680194451**
Option 1 ID : **630680754338**
Option 2 ID : **630680754337**
Option 3 ID : **630680754339**
Option 4 ID : **630680754340**
Status : **Answered**
Chosen Option : **B**

Q.13 In the construction of a DC generator, the number of conductors that lie between the starting of one coil and the starting of the next coil is called _____.

Ans
- ✘ A. front pitch
- ✔ B. resultant pitch
- ✘ C. full pitch
- ✘ D. back pitch

Question ID : **630680379029**
Option 1 ID : **6306801477163**
Option 2 ID : **6306801477165**
Option 3 ID : **6306801477166**
Option 4 ID : **6306801477164**
Status : **Answered**
Chosen Option : **B**

Q.14 Using 2's complement, the value of 0011 - 0101 is _____.

Ans
✗ A. − (1110)
✗ B. (1110)
✓ C. − (0010)
✗ D. (0010)

Question ID : **630680192214**
Option 1 ID : **630680745460**
Option 2 ID : **630680745459**
Option 3 ID : **630680745458**
Option 4 ID : **630680745457**
Status : **Answered**
Chosen Option : **C**

Q.15 Which of the following is a constituent of dry chemical powder?

Ans
✓ A. Mono Ammonium Phosphate
✗ B. Aluminum Nitrate
✗ C. Ammonium Hydroxide
✗ D. Aluminum Phosphate

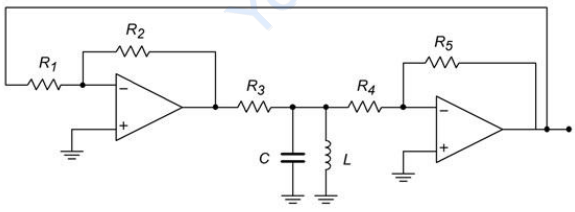
Question ID : **630680999357**
Option 1 ID : **6306803921360**
Option 2 ID : **6306803921358**
Option 3 ID : **6306803921359**
Option 4 ID : **6306803921361**
Status : **Answered**
Chosen Option : **A**

Q.16 Which of the following statements are correct for ideal transformer?
I. At no load condition primary draws the magnetising current only.
II. The magnetising current is zero and in phase with the supply voltage V_1.
III. Self-induced EMF E_1 is equal at every instant and opposite to mutually induced E_2.
IV. Self-induced EMF E_1 is equal at every instant and opposite to supply voltage V.

Ans
✗ A. Statements I, II and IV are correct
✓ B. Statements I and IV are correct
✗ C. Statements I and III are correct
✗ D. Statements I, II and III are correct

Question ID : **630680227803**
Option 1 ID : **630680883890**
Option 2 ID : **630680883889**
Option 3 ID : **630680883888**
Option 4 ID : **630680883887**
Status : **Answered**
Chosen Option : **C**

Q.17 Consider an OP-AMP-based basic oscillator circuit shown in the figure which has network 1 followed by network 2. Identify the configurations of both the networks.



Ans
✗ A. Network 1: Non-inverting configuration; Network 2: Non-inverting configuration
✗ B. Network 1: Non-inverting configuration; Network 2: Inverting configuration
✗ C. Network 1: Inverting configuration; Network 2: Non-inverting configuration
✓ D. Network 1: Inverting configuration; Network 2: Inverting configuration

Question ID : **630680952524**
Option 1 ID : **6306803734730**
Option 2 ID : **6306803734731**
Option 3 ID : **6306803734729**
Option 4 ID : **6306803734732**
Status : **Answered**
Chosen Option : **B**

Q.18 ट्रांसफॉर्मर kVA में रेटेड होते हैं। ट्रांसफॉर्मर की रेटिंग के संबंध में निम्नलिखित में से कौन-सा कथन सही नहीं है?

Ans
✗ A. ट्रांसफॉर्मर में होने वाली हानियां लोड के शक्ति गुणक पर निर्भर नहीं करती हैं।
✓ B. हानियां केवल ताम्र हानियों पर निर्भर करती हैं।
✗ C. ट्रांसफॉर्मर में होने वाली हानियां वोल्टेज और धारा पर निर्भर करती हैं।
✗ D. ट्रांसफॉर्मर में क्रोडी हानि वोल्टेज पर निर्भर करती है और ताम्र हानि धारा पर निर्भर करती है।

Question ID : **630680227804**
Option 1 ID : **630680883891**
Option 2 ID : **630680883892**
Option 3 ID : **630680883893**
Option 4 ID : **630680883894**
Status : **Answered**
Chosen Option : **B**

Q.19 What does an editor do in a programme for presentations?

Ans
✗ A. Formats graphic images
✗ B. Enhances network security
✓ C. Inserts and formats text
✗ D. Writes and executes presentation scripts

Question ID : **630680791326**
Option 1 ID : **6306803101021**
Option 2 ID : **6306803101020**
Option 3 ID : **6306803101022**
Option 4 ID : **6306803101023**
Status : **Answered**
Chosen Option : **A**

Q.20 Which of the following is the correct definition of the resolution of an instrument?

Ans
✗ A. It is a measure of repeatability.
✗ B. It is the degree of exactness of measurement.
✗ C. It is the deviation from the true value.
✓ D. It is the smallest change in the measured variable to which an instrument responds.

Question ID : **630680205105**
Option 1 ID : **630680795286**
Option 2 ID : **630680795284**
Option 3 ID : **630680795283**
Option 4 ID : **630680795285**
Status : **Answered**
Chosen Option : **C**

Q.21 The material used for shunt required to extend the range of MI instrument should have _____.

Ans
✗ A. high temperature coefficient of resistance
✗ B. high shunt resistance
✓ C. low thermo dielectric voltage drop
✗ D. high thermo dielectric voltage drop

Question ID : **630680396167**
Option 1 ID : **6306801544782**
Option 2 ID : **6306801544783**
Option 3 ID : **6306801544781**
Option 4 ID : **6306801544780**
Status : **Answered**
Chosen Option : **A**

Q.22 Which of the following is the advantage of an electromagnetic flow meter?

Ans
✓ A. The output is unaffected by changes in the characteristics of liquid.
✗ B. The output is non linearly related to the flow rate.
✗ C. It is used to measure temperature.
✗ D. It is used to measured flow in pipes of large size only.

Question ID : **630680958537**
Option 1 ID : **6306803758146**
Option 2 ID : **6306803758147**
Option 3 ID : **6306803758148**
Option 4 ID : **6306803758149**
Status : **Answered**
Chosen Option : **A**

Q.23 With which of the following types of controller is hysteresis associated?

Ans
- ✗ A. Proportional controller
- ✗ B. Derivative controller
- ✗ C. Integral controller
- ✓ D. ON-OFF controller

Question ID : **630680194468**
Option 1 ID : **630680754406**
Option 2 ID : **630680754408**
Option 3 ID : **630680754407**
Option 4 ID : **630680754405**
Status : **Answered**
Chosen Option : **D**

Q.24 What is the primary role of a remote terminal unit (RTU) in a SCADA system?

Ans
- ✓ A. To collect real-time data and information from sensors
- ✗ B. To serve as a computing station
- ✗ C. To act as an interface
- ✗ D. To act as a wired connecting network

Question ID : **630680963846**
Option 1 ID : **6306803779935**
Option 2 ID : **6306803779936**
Option 3 ID : **6306803779934**
Option 4 ID : **6306803779937**
Status : **Answered**
Chosen Option : **A**

Q.25 An SCR turns off from conducting state to blocking state upon _____.

Ans
- ✗ A. reducing gate current
- ✗ B. reversing gate voltage
- ✓ C. reducing anode current below the holding current value
- ✗ D. applying AC to the gate

Question ID : **630680201308**
Option 1 ID : **630680780579**
Option 2 ID : **630680780580**
Option 3 ID : **630680780581**
Option 4 ID : **630680780582**
Status : **Answered**
Chosen Option : **A**

Q.26 A rectifier type instrument uses a full wave bridge rectifier and has its scale calibrated in terms of RMS value of a sine wave. It indicates a current of 3.33 A. When measuring a voltage having triangular wave shape, the peak value of the current is _____.

Ans
- ✓ A. $6\ \text{A}$
- ✗ B. $4\ \text{A}$
- ✗ C. $3/\sqrt{2}\ \text{A}$
- ✗ D. $3\sqrt{2}\ \text{A}$

Question ID : **630680955093**
Option 1 ID : **6306803744446**
Option 2 ID : **6306803744447**
Option 3 ID : **6306803744449**
Option 4 ID : **6306803744448**
Status : **Answered**
Chosen Option : **C**

Q.27 Three resistances, each of 10 Ω, are connected to form a star connection. The star connected load is connected to a 3-phase star connected supply. The phase current is 10 A. If the resistances are reconnected to form a delta connection and connected to the same 3-phase supply, what is the phase current in this case?

Ans
- ✓ A. $10\sqrt{3}\ \text{A}$
- ✗ B. $100\sqrt{3}\ \text{A}$
- ✗ C. $0.10\ \text{A}$
- ✗ D. $10\ \text{A}$

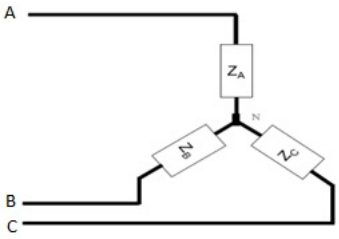
Question ID : **630680209221**
Option 1 ID : **630680811101**
Option 2 ID : **630680811099**
Option 3 ID : **630680811100**
Option 4 ID : **630680811102**
Status : **Answered**
Chosen Option : **B**

Q.28 Which type of solenoid valves are used to operate spring-return actuators?

Ans
✗ A. Two-way solenoids
✗ B. One-way solenoids
✓ C. Three-way solenoids
✗ D. Four-way solenoids

Question ID : **630680969320**
Option 1 ID : **6306803801785**
Option 2 ID : **6306803801786**
Option 3 ID : **6306803801783**
Option 4 ID : **6306803801784**
Status : **Answered**
Chosen Option : **B**

Q.29 The unbalanced star (Y) load is connected across a balanced three-phase system of $V_{AN} = 100 \angle 0°$ V. The phase sequence is ACB. If $Z_A = 10\ \Omega$, $Z_B = 10 \angle 30°\ \Omega$ and $Z_C = 20 \angle 60°\ \Omega$, then the current in line A and line B will be _____.



Ans
✗ A. $10\sqrt{3} \angle 0°$ A and $10\sqrt{3} \angle -270°$ A, respectively
✗ B. $10\sqrt{3} \angle 0°$ A and $10\sqrt{3} \angle -150°$ A, respectively
✓ C. $10 \angle 0°$ A and $10 \angle -270°$ A, respectively
✗ D. $10 \angle 0°$ A and $10 \angle -150°$ A, respectively

Question ID : **630680209227**
Option 1 ID : **630680811126**
Option 2 ID : **630680811125**
Option 3 ID : **630680811123**
Option 4 ID : **630680811124**
Status : **Answered**
Chosen Option : **B**

Q.30 A non-linear system always consists of _____ equilibrium points.

Ans
✗ A. one
✗ B. multiple
✓ C. cannot say
✗ D. zero

Question ID : **630680200945**
Option 1 ID : **630680779128**
Option 2 ID : **630680779129**
Option 3 ID : **630680779130**
Option 4 ID : **630680779127**
Status : **Answered**
Chosen Option : **A**

Q.31 The symbolic method of solving single-phase AC parallel circuits is also called:

Ans
✗ A. admittance method
✓ B. J-operator method
✗ C. phasor method
✗ D. vector method

Question ID : **630680383093**
Option 1 ID : **6306801493280**
Option 2 ID : **6306801493281**
Option 3 ID : **6306801493282**
Option 4 ID : **6306801493279**
Status : **Answered**
Chosen Option : **B**

Q.32 Forced response is generated due to the _____ of the input function.

Ans
- ✗ A. impulse force
- ✗ B. natural response
- ✗ C. zero
- ✓ D. pole

Question ID : **630680194486**
Option 1 ID : **630680754479**
Option 2 ID : **630680754480**
Option 3 ID : **630680754478**
Option 4 ID : **630680754477**
Status : **Answered**
Chosen Option : **A**

Q.33 Lissajous patterns are used for the measurement of_____ .

Ans
- ✗ A. standing wave ratio
- ✓ B. phase difference between two waves
- ✗ C. reflection coefficient
- ✗ D. power of the wave

Question ID : **630680205117**
Option 1 ID : **630680795334**
Option 2 ID : **630680795331**
Option 3 ID : **630680795333**
Option 4 ID : **630680795332**
Status : **Answered**
Chosen Option : **B**

Q.34 If a differential amplifier has a differential voltage gain of 1000 and a common mode gain of 0.1, then the value of common mode rejection ratio (CMRR) in dB is _____.

Ans
- ✗ A. 40 dB
- ✗ B. 100 dB
- ✓ C. 80 dB
- ✗ D. 10^4dB

Question ID : **630680333344**
Option 1 ID : **6306801296649**
Option 2 ID : **6306801296652**
Option 3 ID : **6306801296650**
Option 4 ID : **6306801296651**
Status : **Answered**
Chosen Option : **D**

Q.35 Find the value of 'X' in the following expression.
$(25.625)_{10} = (X)_8$

Ans
- ✗ A. 33.25
- ✗ B. 26.50
- ✗ C. 24.25
- ✓ D. 31.50

Question ID : **630680388648**
Option 1 ID : **6306801515057**
Option 2 ID : **6306801515055**
Option 3 ID : **6306801515054**
Option 4 ID : **6306801515056**
Status : **Answered**
Chosen Option : **D**

Q.36 How many opcodes are there in an 8-bit microprocessor?

Ans
- ✓ A. 246
- ✗ B. 250
- ✗ C. 266
- ✗ D. 220

Question ID : **630680339830**
Option 1 ID : **6306801321842**
Option 2 ID : **6306801321843**
Option 3 ID : **6306801321844**
Option 4 ID : **6306801321841**
Status : **Answered**
Chosen Option : **A**

Q.37 Which of the following process variables is measured by the Bourdon tube element?

Ans
- ✗ A. Flow
- ✓ B. Pressure
- ✗ C. Temperature
- ✗ D. Concentration

Question ID : **630680963880**
Option 1 ID : **6306803780072**
Option 2 ID : **6306803780073**
Option 3 ID : **6306803780070**
Option 4 ID : **6306803780071**
Status : **Answered**
Chosen Option : **B**

Q.38 Which of the following statements are correct about clean agent fire extinguishers?

1. Gaseous total flooding systems may be used to suppress fires of Class A type.
2. Clean agent gas extinguishing systems are useful in extinguishing fires in specific hazards or equipment and in occupancies.
3. The fire extinguishing clean agents are electrically non-conducting and leave no residue upon evaporation.
4. For unoccupiable areas, the maximum concentration may exceed the LOAEL for the extinguishant used, without the need for a lock-off valve to be fitted.

Ans
- ✗ A. Only 1, 2 and 3
- ✓ B. 1, 2, 3 and 4
- ✗ C. Only 2 and 3
- ✗ D. Only 2, 3 and 4

Question ID : **6306801010348**
Option 1 ID : **6306803964897**
Option 2 ID : **6306803964895**
Option 3 ID : **6306803964894**
Option 4 ID : **6306803964896**
Status : **Answered**
Chosen Option : **B**

Q.39 The IS code for dry chemical powders for fire fighting is ____.

Ans
- ✗ A. IS 15493
- ✗ B. IS 15220
- ✓ C. IS 4308
- ✗ D. IS 10204

Question ID : **6306801010462**
Option 1 ID : **6306803965342**
Option 2 ID : **6306803965343**
Option 3 ID : **6306803965344**
Option 4 ID : **6306803965345**
Status : **Answered**
Chosen Option : **B**

Q.40 Which of the following controllers is used to improve the stability and to decrease the steady-state error in control systems?

Ans
- ✗ A. Derivative controller
- ✗ B. Proportional integral controller
- ✗ C. Proportional derivative controller
- ✓ D. Proportional integral derivative controller

Question ID : **630680200959**
Option 1 ID : **630680779186**
Option 2 ID : **630680779183**
Option 3 ID : **630680779184**
Option 4 ID : **630680779185**
Status : **Answered**
Chosen Option : **B**

Q.41 A Permanent Magnet Moving Coil (PMMC) type can be used for:

Ans
- ✓ A. direct current measurement only
- ✗ B. either alternating current measurement or direct current measurement
- ✗ C. both alternating current measurement and direct current measurement
- ✗ D. alternating current measurement only

Question ID : **630680953180**
Option 1 ID : **6306803737349**
Option 2 ID : **6306803737352**
Option 3 ID : **6306803737351**
Option 4 ID : **6306803737350**
Status : **Answered**
Chosen Option : **A**

Q.42 Which of the following methods is NOT used for the measurement of low resistance?

Ans
- ✗ A. Kelvin double bridge method
- ✗ B. Ammeter-voltmeter method
- ✗ C. Potentiometer method
- ✓ D. Wheatstone bridge method

Question ID : **630680198598**
Option 1 ID : **630680770354**
Option 2 ID : **630680770351**
Option 3 ID : **630680770353**
Option 4 ID : **630680770352**
Status : **Answered**
Chosen Option : **B**

Q.43 The dynamic input resistance of a transistor in common-emitter configuration is the ratio of the _____.

Ans
- ✗ A. collector emitter voltage to the collector current at constant collector emitter voltage
- ✓ B. base emitter voltage to the base current at constant collector emitter voltage
- ✗ C. base emitter voltage to the emitter current at constant collector base voltage
- ✗ D. base emitter voltage to the collector current at constant collector emitter voltage

Question ID : **630680217869**
Option 1 ID : **630680845385**
Option 2 ID : **630680845383**
Option 3 ID : **630680845386**
Option 4 ID : **630680845384**
Status : **Answered**
Chosen Option : **B**

Q.44 Which type of delay occurs between a sensor and a controller?

Ans
- ✗ A. Network delay
- ✗ B. Feedback delay
- ✗ C. Computational delay
- ✓ D. Communication delay (sensor-controller)

Question ID : **630680963775**
Option 1 ID : **6306803779653**
Option 2 ID : **6306803779652**
Option 3 ID : **6306803779650**
Option 4 ID : **6306803779651**
Status : **Answered**
Chosen Option : **D**

Q.45 Consider the statements for DIAC and select the appropriate option.

Statement (1):
It's an AC switch and its unidirectional semiconductor switch.re
Statement (2):
DIAC turns on when applied voltage is more than breakover voltage.

Ans
- ✗ A. Statement (1) is true, and statement (2) is false
- ✗ B. Both statements (1) and (2) are false
- ✗ C. Both statements (1) and (2) are true
- ✓ D. Statement (2) is true, and statement (1) is false

Question ID : **630680201348**
Option 1 ID : **630680780739**
Option 2 ID : **630680780742**
Option 3 ID : **630680780741**
Option 4 ID : **630680780740**
Status : **Answered**
Chosen Option : **A**

Q.46 How is the efficiency (η) of a DC motor evaluated?

Ans
- ✗ A. η = (Input Power − Output Power) × 100
- ✗ B. η = Output Power + Input Power
- ✓ C. η = (Output Power / Input Power) × 100
- ✗ D. η = (Output Power − Input Power) × 100

Question ID : **630680380901**
Option 1 ID : **6306801484592**
Option 2 ID : **6306801484593**
Option 3 ID : **6306801484591**
Option 4 ID : **6306801484594**
Status : **Answered**
Chosen Option : **C**

Q.47 What is the term used to describe the ratio of change in resistance to the applied strain in a strain gauge?

Ans
- ✗ A. Resistance ratio
- ✗ B. Strain coefficient
- ✓ C. Gauge factor
- ✗ D. Sensitivity coefficient

Question ID : **630680392701**
Option 1 ID : **6306801531145**
Option 2 ID : **6306801531144**
Option 3 ID : **6306801531142**
Option 4 ID : **6306801531143**
Status : **Answered**
Chosen Option : **C**

Q.48 The core loss in a transformer includes which of the following losses?

Ans
- ✗ A. Copper loss and stray losses
- ✗ B. Eddy current and windage losses
- ✗ C. Eddy current and stray losses
- ✓ D. Eddy current and hysteresis losses

Question ID : **630680227801**
Option 1 ID : **630680883879**
Option 2 ID : **630680883880**
Option 3 ID : **630680883882**
Option 4 ID : **630680883881**
Status : **Answered**
Chosen Option : **D**

Q.49 What is the advantage of using a combination of pressure-measuring devices in critical applications?

Ans
- ✗ A. It increases the overall cost of the measurement system.
- ✗ B. It requires less frequent calibration.
- ✗ C. It reduces the complexity of the measurement system.
- ✓ D. It provides a higher level of measurement accuracy and reliability.

Question ID : **630680392698**
Option 1 ID : **6306801531131**
Option 2 ID : **6306801531133**
Option 3 ID : **6306801531130**
Option 4 ID : **6306801531132**
Status : **Answered**
Chosen Option : **D**

Q.50 In MS Excel, how can you create a chart based on data in a worksheet?

Ans
- ✗ A. By using the 'Chart Wizard' tool in the 'View' tab
- ✗ B. By typing the data directly into the chart
- ✗ C. By copying and pasting the data into a separate chart template
- ✓ D. By using the 'Insert' tab and selecting the desired chart type

Question ID : **630680782119**
Option 1 ID : **6306803065387**
Option 2 ID : **6306803065386**
Option 3 ID : **6306803065385**
Option 4 ID : **6306803065384**
Status : **Answered**
Chosen Option : **A**

Q.51 Which of the following statements about a non-inverting op-amp is/are correct?
S1: The non-inverting terminal is directly connected to the power supply.
S2: The input impedance of a non-inverting op-amp is large.
S3: The output impedance of a non-inverting op-amp is large.

Ans
- ✗ A. Only S1
- ✗ B. Only S2 and S3
- ✓ C. Only S1 and S2
- ✗ D. S1, S2 and S3

Question ID : **630680333351**
Option 1 ID : **6306801296679**
Option 2 ID : **6306801296678**
Option 3 ID : **6306801296677**
Option 4 ID : **6306801296680**
Status : **Answered**
Chosen Option : **C**

Q.52 **Which of the following statements is correct about an electromagnetic flowmeter?**

S1: The principle of electromagnetic induction is applied in an electromagnetic flowmeter.
S2: The output (voltage) is linearly rated to the input (flow rate).
S3: If the characteristics of liquid change, the output remains unaffected.
S4: The operating cost is very low if slurries are handled.

Ans
✗ A. Only S1 and S3
✗ B. Only S2 and S4
✓ C. Only S1, S2 and S3
✗ D. S1, S2, S3 and S4

Question ID : **630680958510**
Option 1 ID : **6306803758044**
Option 2 ID : **6306803758043**
Option 3 ID : **6306803758042**
Option 4 ID : **6306803758045**
Status : **Answered**
Chosen Option : **D**

Q.53 **The total active power of a 3-phase system is given by _____.**

Ans
✓ A. $P = 3.Vp.Ip.\cos\theta$
✗ B. $P = 6.Vp.Ip.\cos\theta$
✗ C. $P = 6.Vp.Ip.\sin\theta$
✗ D. $P = 3.Vp.Ip.\sin\theta$

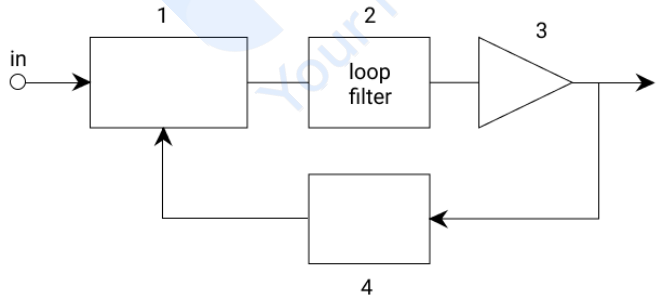
Question ID : **6306801011231**
Option 1 ID : **6306803968356**
Option 2 ID : **6306803968357**
Option 3 ID : **6306803968359**
Option 4 ID : **6306803968358**
Status : **Answered**
Chosen Option : **C**

Q.54 **The electromagnetic flow meter measures the rate of flow of a conductive fluid by _____.**

Ans
✗ A. measurement of pressure of the fluid
✗ B. ultrasonic waves
✗ C. measurement of temperature of the fluid
✓ D. inducing voltage in the fluid based on its velocity

Question ID : **630680374850**
Option 1 ID : **6306801460569**
Option 2 ID : **6306801460567**
Option 3 ID : **6306801460568**
Option 4 ID : **6306801460570**
Status : **Answered**
Chosen Option : **D**

Q.55 **Identify the blocks of the PLL (Phase Lock Loop) network shown in the figure.**



Ans
✗ A. 1: VCO; 3: Phase comparator; 4: Amplifier
✗ B. 1: VCO; 3: Amplifier; 4: Phase comparator
✗ C. 1: Amplifier; 3: Phase comparator; 4: VCO
✓ D. 1: Phase comparator; 3: Amplifier; 4: VCO

Question ID : **630680952531**
Option 1 ID : **6306803734759**
Option 2 ID : **6306803734758**
Option 3 ID : **6306803734757**
Option 4 ID : **6306803734760**
Status : **Answered**
Chosen Option : **D**

Q.56 Which of the following quantities can be measured by using a bellow diaphragm?

Ans
✗ A. Flow rate of fluid
✗ B. Liquid level
✓ C. Pressure
✗ D. Temperature

Question ID : **630680374858**
Option 1 ID : **6306801460602**
Option 2 ID : **6306801460601**
Option 3 ID : **6306801460600**
Option 4 ID : **6306801460599**
Status : **Answered**
Chosen Option : **C**

Q.57 Which of the following statements is correct about Radiation Pyrometers used in temperature measurement?

S1: A radiation pyrometer is used for the measurement of high temperature.
S2: It measures the radiant heat emitted by the hot object.
S3: In a radiation pyrometer, the sensing device, a sensitive thermocouple, is kept in touch with the test object.

Ans
✓ A. Only S1 and S2
✗ B. S1, S2 and S3
✗ C. Only S1 and S3
✗ D. Only S2 and S3

Question ID : **630680958386**
Option 1 ID : **6306803757550**
Option 2 ID : **6306803757551**
Option 3 ID : **6306803757553**
Option 4 ID : **6306803757552**
Status : **Answered**
Chosen Option : **A**

Q.58 A hexadecimal number $(F41)_{16}$ has _____ number of binary bits.

Ans
✗ A. 3
✗ B. 4
✓ C. 12
✗ D. 16

Question ID : **630680377943**
Option 1 ID : **6306801472831**
Option 2 ID : **6306801472832**
Option 3 ID : **6306801472833**
Option 4 ID : **6306801472834**
Status : **Answered**
Chosen Option : **C**

Q.59 Identify the significance of low pass filter used in phase lock loop.

Ans
✗ A. The low pass filter filters the energy content given by the amplifier circuit and passes it to the phase detector.
✓ B. The low-pass filter passes only the lower frequency component of the signal given by the phase detector, so that the loop can obtain lock between input and VCO signals.
✗ C. The output of the low pass filter ensures that VCO output frequency is always independent of the input signal given to the PLL.
✗ D. The low pass filter rejects all the frequencies within the lock range.

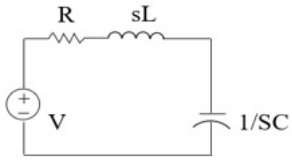
Question ID : **630680952540**
Option 1 ID : **6306803734793**
Option 2 ID : **6306803734794**
Option 3 ID : **6306803734796**
Option 4 ID : **6306803734795**
Status : **Answered**
Chosen Option : **B**

Q.60 General-purpose microprocessors adhere to which architecture and instruction set?

Ans
✓ A. Von Neumann architecture with CISC instruction set
✗ B. Harvard architecture with CISC instruction set
✗ C. Harvard architecture with RISC instruction set
✗ D. Von Neumann architecture with RISC instruction set

Question ID : **630680339827**
Option 1 ID : **6306801321831**
Option 2 ID : **6306801321830**
Option 3 ID : **6306801321832**
Option 4 ID : **6306801321829**
Status : **Answered**
Chosen Option : **B**

Q.61 Determine the transfer function of the circuit shown below.



Ans

✔ A. $H(S) = \frac{SC}{LCS^2 + RCS + 1}$

✘ B. $H(S) = \frac{C}{S^2LC + RCS + 1}$

✘ C. $H(S) = \frac{C}{LCS^2 + RCS^2}$

✘ D. $H(S) = \frac{SC}{LCS^2 + RCS^2 + 1}$

Question ID : **630680194445**
Option 1 ID : **630680754316**
Option 2 ID : **630680754313**
Option 3 ID : **630680754315**
Option 4 ID : **630680754314**
Status : **Answered**
Chosen Option : **B**

Q.62 In PLC programmes, the ANB function is used to:

Ans

✘ A. connect NO of contact in series

✘ B. connect NC of contact in series

✔ C. connect a block in series

✘ D. connect a block in parallel

Question ID : **630680194461**
Option 1 ID : **630680754379**
Option 2 ID : **630680754380**
Option 3 ID : **630680754377**
Option 4 ID : **630680754378**
Status : **Answered**
Chosen Option : **C**

Q.63 What happens when a user enters data into a cell that exceeds the column width in MS Excel?

Ans

✔ A. The data is truncated and not fully visible.

✘ B. An error message is displayed.

✘ C. The column width automatically adjusts to fit the data.

✘ D. The excess data is displayed in the adjacent cells.

Question ID : **630680782185**
Option 1 ID : **6306803065648**
Option 2 ID : **6306803065650**
Option 3 ID : **6306803065649**
Option 4 ID : **6306803065651**
Status : **Answered**
Chosen Option : **C**

Q.64 Dual Trace CRO operates in two modes _____ and _____ .

Ans

✘ A. Alternate; Double

✔ B. Alternate; Chop

✘ C. Horizontal; Vertical

✘ D. Single beam; Dual beam

Question ID : **630680205123**
Option 1 ID : **630680795358**
Option 2 ID : **630680795356**
Option 3 ID : **630680795355**
Option 4 ID : **630680795357**
Status : **Answered**
Chosen Option : **B**

Q.65 As per the IEC 61131 standard, which of the following programming languages is used to programme a PLC?

Ans
- ✗ A. C++
- ✗ B. Scala
- ✓ C. Ladder Logic
- ✗ D. Perl

Question ID : **630680961684**
Option 1 ID : **6306803770933**
Option 2 ID : **6306803770936**
Option 3 ID : **6306803770935**
Option 4 ID : **6306803770934**
Status : **Answered**
Chosen Option : **C**

Q.66 Which of the following is a common application of the piezoelectric transducer?

Ans
- ✗ A. Solar cell
- ✗ B. Thermometer
- ✓ C. Microphone
- ✗ D. Electric heater

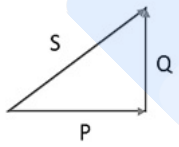
Question ID : **630680374872**
Option 1 ID : **6306801460658**
Option 2 ID : **6306801460655**
Option 3 ID : **6306801460657**
Option 4 ID : **6306801460656**
Status : **Answered**
Chosen Option : **A**

Q.67 Which packing material is used for control valve packings?

Ans
- ✗ A. Liquidised Nitrogen Oxide
- ✓ B. Laminated and Filament Graphite
- ✗ C. Laminated PVC
- ✗ D. Liquidised Iron Oxide

Question ID : **630680969302**
Option 1 ID : **6306803801714**
Option 2 ID : **6306803801711**
Option 3 ID : **6306803801712**
Option 4 ID : **6306803801713**
Status : **Answered**
Chosen Option : **D**

Q.68 Which of the following statements is/are correct regarding the power triangle shown here?



(a) S represents active power.
(b) S represents apparent power and is measured in watt.
(c) S represents apparent power and is measured in Volt-amperes.
(d) Q represents reactive power and is measured in watt.

Ans
- ✗ A. Only (b), (c) and (d)
- ✗ B. (a), (b), (c) and (d)
- ✓ C. Only (c)
- ✗ D. Only (d)

Question ID : **630680209201**
Option 1 ID : **630680811020**
Option 2 ID : **630680811019**
Option 3 ID : **630680811021**
Option 4 ID : **630680811022**
Status : **Answered**
Chosen Option : **A**

Q.69 In a junction of an electrical network, the algebraic sum of the current entering is 15 A. What will be the algebraic sum of the current going out from that junction?

Ans
- ✔ A. 15 A
- ✘ B. 30 A
- ✘ C. 7.5 A
- ✘ D. 45 A

Question ID : **630680340711**
Option 1 ID : **6306801325286**
Option 2 ID : **6306801325287**
Option 3 ID : **6306801325285**
Option 4 ID : **6306801325288**
Status : **Answered**
Chosen Option : **C**

Q.70 Which of the following can be used as a sensing element in case of the RTD?

Ans
- ✘ A. Copper
- ✘ B. Aluminium
- ✘ C. Iron
- ✔ D. Platinum

Question ID : **630680374867**
Option 1 ID : **6306801460636**
Option 2 ID : **6306801460635**
Option 3 ID : **6306801460637**
Option 4 ID : **6306801460638**
Status : **Answered**
Chosen Option : **D**

Q.71 The MOSFET structure along with gate and substrate as two terminals forms a/an _____ .

Ans
- ✔ A. capacitor
- ✘ B. resistor
- ✘ C. inductor
- ✘ D. dielectric

Question ID : **630680201301**
Option 1 ID : **630680780553**
Option 2 ID : **630680780551**
Option 3 ID : **630680780552**
Option 4 ID : **630680780554**
Status : **Answered**
Chosen Option : **C**

Q.72 Which PLC mode is used to execute a user programme and energise output devices?

Ans
- ✘ A. Program mode
- ✘ B. Test mode
- ✘ C. Single-scan test mode
- ✔ D. Run mode

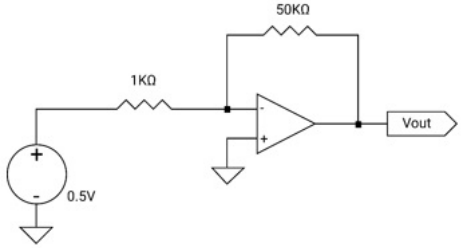
Question ID : **630680961779**
Option 1 ID : **6306803771317**
Option 2 ID : **6306803771318**
Option 3 ID : **6306803771320**
Option 4 ID : **6306803771319**
Status : **Answered**
Chosen Option : **C**

Q.73 An error in a current transformer may be reduced by _____.

Ans
- ✔ A. keeping the magnetising current low
- ✘ B. keeping the loss component high
- ✘ C. high leakage reactance
- ✘ D. keeping the primary current small

Question ID : **630680956390**
Option 1 ID : **6306803749567**
Option 2 ID : **6306803749568**
Option 3 ID : **6306803749570**
Option 4 ID : **6306803749569**
Status : **Answered**
Chosen Option : **D**

Q.74 Calculate the scale factor of the inverting amplifier circuit shown below.



Ans
- ✔ A. −50
- ✘ B. −1
- ✘ C. −0.5
- ✘ D. −500

Question ID : **630680212630**
Option 1 ID : **630680824661**
Option 2 ID : **630680824660**
Option 3 ID : **630680824659**
Option 4 ID : **630680824662**
Status : **Answered**
Chosen Option : **B**

Q.75 What is a two-point starter primarily used for in electrical systems?

Ans
- ✘ A. Protection against over current
- ✔ B. Soft starting of DC motors
- ✘ C. Speed control of DC motors
- ✘ D. Reversing the direction of DC motors

Question ID : **630680380912**
Option 1 ID : **6306801484637**
Option 2 ID : **6306801484636**
Option 3 ID : **6306801484635**
Option 4 ID : **6306801484638**
Status : **Answered**
Chosen Option : **C**

Section : **Numerical Ability**

Q.76 The value of $\frac{\left(\frac{18}{3}+\frac{17}{8}\text{of}\frac{8}{3}\right)}{\left(15-\frac{18}{8}\div\frac{3}{8}\right)}$ is

Ans
- ✔ A. $\frac{35}{27}$
- ✘ B. $\frac{30}{30}$
- ✘ C. $\frac{34}{35}$
- ✘ D. $\frac{33}{35}$

Question ID : **630680676986**
Option 1 ID : **6306802651399**
Option 2 ID : **6306802651400**
Option 3 ID : **6306802651402**
Option 4 ID : **6306802651401**
Status : **Answered**
Chosen Option : **C**

Q.77 A person saves 20% of his monthly income. If his monthly income increases by 30%, then he saves 10% more than the previous savings. The percentage increase in his expenditure is ____

Ans
✗ A. 38.5
✗ B. 45.5
✓ C. 35
✗ D. 31.5

Question ID : **630680591671**
Option 1 ID : **6306802315152**
Option 2 ID : **6306802315154**
Option 3 ID : **6306802315151**
Option 4 ID : **6306802315153**
Status : **Answered**
Chosen Option : **B**

Q.78 The value of x in the proportion equation 11 : 44 :: 89 : x is:

Ans
✗ A. 353
✓ B. 356
✗ C. 350
✗ D. 361

Question ID : **630680948621**
Option 1 ID : **6306803719258**
Option 2 ID : **6306803719256**
Option 3 ID : **6306803719259**
Option 4 ID : **6306803719257**
Status : **Answered**
Chosen Option : **B**

Q.79 The sum of 6 numbers is 588. Find their average.

Ans
✓ A. 98
✗ B. 97
✗ C. 99
✗ D. 96

Question ID : **630680551900**
Option 1 ID : **6306802157825**
Option 2 ID : **6306802157826**
Option 3 ID : **6306802157827**
Option 4 ID : **6306802157828**
Status : **Answered**
Chosen Option : **A**

Q.80 11.337 − [3 + 0.5 of (3.1 − 2.3 × 1.02)] = ?

Ans
✗ A. 8.77
✗ B. −8.77
✓ C. 8
✗ D. 8.3

Question ID : **63068061325**
Option 1 ID : **630680236682**
Option 2 ID : **630680236683**
Option 3 ID : **630680236685**
Option 4 ID : **630680236684**
Status : **Answered**
Chosen Option : **B**

Q.81 The HCF of 204,1190 and 1445 is:

Ans
✗ A. 19
✗ B. 21
✓ C. 17
✗ D. 18

Question ID : **630680137335**
Option 1 ID : **630680531936**
Option 2 ID : **630680531937**
Option 3 ID : **630680531934**
Option 4 ID : **630680531935**
Status : **Answered**
Chosen Option : **C**

Q.82 हार्दिक ने ₹92900 को अर्ध-वार्षिक रूप से चक्रवृद्धित होने वाली 20% वार्षिक ब्याज दर पर 1 वर्ष के लिए निवेश किया। उसके द्वारा प्राप्त मिश्रधन कितना होगा?

Ans
✗ A. ₹112251
✓ B. ₹112409
✗ C. ₹113264
✗ D. ₹113084

Question ID : **630680886100**
Option 1 ID : **6306803470085**
Option 2 ID : **6306803470084**
Option 3 ID : **6306803470086**
Option 4 ID : **6306803470087**
Status : **Answered**
Chosen Option : **C**

Q.83 What sum (in ₹) will earn a simple interest of ₹600 in 3 years at 8% per year rate of interest?

Ans
✓ A. 2500
✗ B. 1250
✗ C. 5000
✗ D. 4000

Question ID : **630680612215**
Option 1 ID : **6306802395592**
Option 2 ID : **6306802395593**
Option 3 ID : **6306802395594**
Option 4 ID : **6306802395595**
Status : **Answered**
Chosen Option : **B**

Q.84 A bike is moving at a speed of 94 km/h. If its speed is reduced by 41%, the new speed of the bike (in km/h) will be:

Ans
✗ A. 54.95
✓ B. 55.46
✗ C. 54.46
✗ D. 56.05

Question ID : **630680948636**
Option 1 ID : **6306803719318**
Option 2 ID : **6306803719316**
Option 3 ID : **6306803719317**
Option 4 ID : **6306803719319**
Status : **Answered**
Chosen Option : **C**

Q.85 96% of the population of a village is 24000. The total population of the village is:

Ans
✗ A. 33256
✗ B. 25936
✗ C. 26640
✓ D. 25000

Question ID : **630680573973**
Option 1 ID : **6306802244763**
Option 2 ID : **6306802244761**
Option 3 ID : **6306802244762**
Option 4 ID : **6306802244760**
Status : **Answered**
Chosen Option : **B**

Q.86 इलेक्ट्रॉनिक वस्तुओं की एक क्लीयरेंस सेल में, ₹12200 के अंकित मूल्य वाली एक वस्तु ₹11468 में बेची जाती है। वस्तु पर d% की छूट है। d का मान ज्ञात कीजिए।

Ans
✗ A. 8
✓ B. 6
✗ C. 5
✗ D. 7

Question ID : **630680948612**
Option 1 ID : **6306803719223**
Option 2 ID : **6306803719220**
Option 3 ID : **6306803719221**
Option 4 ID : **6306803719222**
Status : **Answered**
Chosen Option : **B**

Q.87 आदित्य किसी कार्य को अकेले 12 दिनों में पूरा कर सकता है और भगवान उसी कार्य को अकेले 8 दिनों में पूरा कर सकता है। उन्होंने एक साथ कार्य करना शुरू किया, लेकिन कार्य पूरा होने से 7 दिन पहले आदित्य को कार्य छोड़ना पड़ा। कार्य कितने दिनों में पूरा होगा?

Ans
✗ A. $7\frac{6}{5}$ दिन
✗ B. $7\frac{8}{5}$ दिन
✗ C. $7\frac{4}{5}$ दिन
✓ D. $7\frac{3}{5}$ दिन

Question ID : **630680900487**
Option 1 ID : **6306803527715**
Option 2 ID : **6306803527716**
Option 3 ID : **6306803527714**
Option 4 ID : **6306803527713**
Status : **Answered**
Chosen Option : **C**

Q.88 एक नाव को धारा के विपरीत दिशा में एक निश्चित दूरी तय करने में 8 hrs 48 min लगते हैं, जबकि धारा की दिशा में समान दूरी को तय करने में उसे 4 hrs लगते हैं। नाव की चाल और धारा की चाल के बीच क्या अनुपात है?

Ans
✗ A. 2 : 1
✗ B. 3 : 8
✗ C. 2 : 3
✓ D. 8 : 3

Question ID : **630680435949**
Option 1 ID : **6306801701743**
Option 2 ID : **6306801701742**
Option 3 ID : **6306801701744**
Option 4 ID : **6306801701741**
Status : **Answered**
Chosen Option : **B**

Q.89 राकेश ने एक ट्रैकसूट को ₹3,955 में बेचने पर 13% का लाभ कमाया। ट्रैकसूट का क्रय मूल्य ज्ञात कीजिए।

Ans
✗ A. ₹3,400
✗ B. ₹3,450
✗ C. ₹3,550
✓ D. ₹3,500

Question ID : **630680103487**
Option 1 ID : **630680402194**
Option 2 ID : **630680402193**
Option 3 ID : **630680402191**
Option 4 ID : **630680402192**
Status : **Answered**
Chosen Option : **C**

Q.90 The distance between two points on a map is 3 cm. The scale of the map is 1 : 355269. The actual distance between the two points (in km) is:

Ans
✓ A. 10.66
✗ B. 6.17
✗ C. 12.94
✗ D. 7.13

Question ID : **630680948630**
Option 1 ID : **6306803719292**
Option 2 ID : **6306803719293**
Option 3 ID : **6306803719294**
Option 4 ID : **6306803719295**
Status : **Answered**
Chosen Option : **B**

Section : **General Awareness**

Q.91 What was the literacy rate of India as per Census 2011?

Ans
- ✗ A. Between 60% and 70%
- ✓ B. Between 71% and 75%
- ✗ C. More than 80%
- ✗ D. Less than 60%

Question ID : **630680957802**
Option 1 ID : **6306803755209**
Option 2 ID : **6306803755210**
Option 3 ID : **6306803755211**
Option 4 ID : **6306803755208**
Status : **Answered**
Chosen Option : **D**

Q.92 पुस्तक, 'मास्टर ऑफ द गेम, मास्टर ऑफ द हार्ट: द मेकिंग ऑफ इंडियाज क्रिकेट लीजेंड', भारत के क्रिकेट आइकन _____ की असाधारण यात्रा पर प्रकाश डालती है।

Ans
- ✗ A. सुनील गावस्कर
- ✓ B. विराट कोहली
- ✗ C. रोहित शर्मा
- ✗ D. सचिन तेंदुलकर

Question ID : **630680943934**
Option 1 ID : **6306803700574**
Option 2 ID : **6306803700573**
Option 3 ID : **6306803700571**
Option 4 ID : **6306803700572**
Status : **Answered**
Chosen Option : **D**

Q.93 भारत की कौन-सी शास्त्रीय भाषा कश्मीर के ऐतिहासिक इतिहास 'राजतरंगिणी' सहित अपने संरक्षित प्राचीन ग्रंथों के लिए प्रसिद्ध है?

Ans
- ✗ A. प्राकृत
- ✗ B. हिंदी
- ✓ C. संस्कृत
- ✗ D. कन्नड़

Question ID : **630680971417**
Option 1 ID : **6306803809686**
Option 2 ID : **6306803809684**
Option 3 ID : **6306803809683**
Option 4 ID : **6306803809685**
Status : **Answered**
Chosen Option : **C**

Q.94 What was the percentage increase in India's annual defense production from FY 2022-23 to FY 2023-24?

Ans
- ✓ A. 16.7%
- ✗ B. 20.5%
- ✗ C. 25.3%
- ✗ D. 12.5%

Question ID : **630680978702**
Option 1 ID : **6306803838792**
Option 2 ID : **6306803838793**
Option 3 ID : **6306803838794**
Option 4 ID : **6306803838791**
Status : **Answered**
Chosen Option : **B**

Q.95 Which of the following Amendment Acts inserted the Fundamental Duty related to providing opportunities for education to children between the ages of six and fourteen years?

Ans
- ✓ A. 86th Amendment
- ✗ B. 44th Amendment
- ✗ C. 73rd Amendment
- ✗ D. 42nd Amendment

Question ID : **630680936478**
Option 1 ID : **6306803670319**
Option 2 ID : **6306803670317**
Option 3 ID : **6306803670320**
Option 4 ID : **6306803670318**
Status : **Answered**
Chosen Option : **C**

Q.96 राष्ट्रपति द्वारा मांगे जाने पर संघ के मामलों के प्रशासन से संबंधित सूचना और कानूनों हेतु प्रस्तावों को प्रस्तुत करना, कार्यपालिका के किस अंग का कर्तव्य है?

Ans
- ✔ A. प्रधानमंत्री
- ✘ B. उप-राष्ट्रपति
- ✘ C. मुख्यमंत्री
- ✘ D. राज्यपाल

Question ID : **630680990484**
Option 1 ID : **6306803886316**
Option 2 ID : **6306803886319**
Option 3 ID : **6306803886317**
Option 4 ID : **6306803886318**
Status : **Answered**
Chosen Option : **D**

Q.97 A cockroach belongs to which of the following taxonomic classifications?

Ans
- ✘ A. Annelida
- ✘ B. Mollusca
- ✔ C. Arthropoda
- ✘ D. Nematoda

Question ID : **630680935040**
Option 1 ID : **6306803664825**
Option 2 ID : **6306803664826**
Option 3 ID : **6306803664827**
Option 4 ID : **6306803664824**
Status : **Answered**
Chosen Option : **C**

Q.98 Which vitamin is synthesised naturally by the skin upon exposure to ultraviolet (UV) rays from sunlight?

Ans
- ✘ A. Vitamin A
- ✔ B. Vitamin D
- ✘ C. Vitamin K
- ✘ D. Vitamin E

Question ID : **630680935050**
Option 1 ID : **6306803664865**
Option 2 ID : **6306803664864**
Option 3 ID : **6306803664867**
Option 4 ID : **6306803664866**
Status : **Answered**
Chosen Option : **B**

Q.99 Cherrapunji, which recorded the third highest rainfall over 24 hours in 122 years in June 2022, is situated in which state of India?

Ans
- ✘ A. West Bengal
- ✔ B. Meghalaya
- ✘ C. Mizoram
- ✘ D. Assam

Question ID : **630680957762**
Option 1 ID : **6306803755049**
Option 2 ID : **6306803755051**
Option 3 ID : **6306803755050**
Option 4 ID : **6306803755048**
Status : **Answered**
Chosen Option : **B**

Q.100 राष्ट्रीय अपराध रिकॉर्ड ब्यूरो (NCRB) की 2022 की वार्षिक रिपोर्ट के अनुसार, लगातार तीन वर्षों में, भारत के किन दो राज्यों में सबसे अधिक भ्रष्टाचार के मामले दर्ज हुए हैं?

Ans
- ✔ A. राजस्थान और महाराष्ट्र
- ✘ B. कर्नाटक और तमिलनाडु
- ✘ C. गुजरात और पंजाब
- ✘ D. उत्तर प्रदेश और बिहार

Question ID : **6306801052897**
Option 1 ID : **6306804134137**
Option 2 ID : **6306804134136**
Option 3 ID : **6306804134138**
Option 4 ID : **6306804134135**
Status : **Answered**
Chosen Option : **D**