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DFCCIL Executive Electrical (17-04-2016)

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Candidate Name:	
Candidate Roll Number:	
Test Center Name:	
Subject:	Executive Electrical
Test Date:	17/04/2016
Shift:	Shift 2

Section : **Technical**

Q. 1 Poynting-vector Wattmeter works on _____.

Question ID : **7368158202**
Status : **Answered**
Chosen Option : **4**

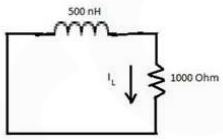
Ans
✗ 1. magnetic effect
✓ 2. hall effect
✗ 3. induction effect
✗ 4. heating effect

Q. 2 If we want to represent a relation between number of link currents and number of branch currents in a directional graph, we should use:

Question ID : **7368158184**
Status : **Answered**
Chosen Option : **3**

Ans
✗ 1. reduced incidence
✗ 2. incidence
✓ 3. tie set
✗ 4. cutset

Q. 3 What will be the value of current IL through the resistor at t = 1 ns if IR(0)= 6 Ampere.



Question ID : **7368158192**
Status : **Not Attempted**
Chosen Option : **--**

Ans
✓ 1. 812 mA
✗ 2. 4.66 mA
✗ 3. 456 mA
✗ 4. 6.098 A

Q. 4 What will be the rms value of a half wave rectified symmetrical square wave which is having current of 4 A?

Question ID : **7368158197**
Status : **Answered**
Chosen Option : **1**

Ans
✓ 1. 2.82 A
✗ 2. 0.707 A
✗ 3. 6.45 A
✗ 4. 1.414 A

Q. 5 What is meant by zero initial condition for a system?

Question ID : **7368158211**
Status : **Answered**
Chosen Option : **4**

Ans
✗ 1. Zero input reference signal
✗ 2. Zero stored energy

✗ 3. No initial movement of moving parts

✓ 4.

System is at rest and no energy is stored in any of its components

Q. 6 Induction Type Instruments can be employed for:

Question ID : **7368158203**
Status : **Answered**
Chosen Option : **4**

Ans

✗ 1. both AC and DC

✗ 2. direct current only

✗ 3. usually dc for heavy currents

✓ 4. alternating currents only

Q. 7 The electron-hole mobility ratio in Germanium is:

Question ID : **7368158247**
Status : **Answered**
Chosen Option : **2**

Ans

✗ 1. (2.8) : 1

✓ 2. 2 : 1

✗ 3. (1.2) : 1

✗ 4. 1 : 1

Q. 8 Zener breakdown occurs when reverse bias of voltage is approximately:

Question ID : **7368158251**
Status : **Answered**
Chosen Option : **2**

Ans

✗ 1. 2 - 4 V

✗ 2. 0.1 - 2 V

✓ 3. 4 - 6 V

✗ 4. 10 V

Q. 9 Which one of the following is the condition for Maximum power transfer in a circuit?

Question ID : **7368158188**
Status : **Answered**
Chosen Option : **1**

Ans

✓ 1. RL = Rs

✗ 2. RL = 4Rs

✗ 3. RL = Rs/2

✗ 4. RL = 2Rs

Q. 10 Match the folllowing Instruments given in column 1 with the respective quantities they read in column 2.

Column 1	Column 2
1. De'Sauty Bridge	a. Capacitance
2. Potentiometer	b. Low Resistance
3. Megger	c. High Resistance
4. Wattmeter	d. Power

Question ID : **7368158210**
Status : **Answered**
Chosen Option : **4**

Ans

✗ 1. 1-a, 2-c, 3-b, 4-d

✗ 2. 1-d, 2-c, 3-b, 4-a

✗ 3. 1-d, 2-b, 3-c, 4-a

✓ 4. 1-a, 2-b, 3-c, 4-d

Q.11 Wein's Bridge measures:

Question ID : **7368158207**
Status : **Answered**
Chosen Option : **3**

Ans

✗ 1. Power

✗ 2. Power factor

✓ 3. Frequency

✗ 4. Resistance

Q. 12 AC Bridges cannot be used for the direct measurement of:

Question ID : **7368158209**
Status : **Answered**
Chosen Option : **2**

Ans
✗ 1. loss factor
✗ 2. capacitance storage factor
✗ 3. inductance
✓ 4. capacitance

Q.13 Shunt generators are generally used for:

Question ID : **7368158239**
Status : **Answered**
Chosen Option : **2**

Ans
✗ 1. arc welding
✓ 2. charging batteries
✗ 3. regenerative braking of dc locomotives
✗ 4. elevators

Q. 14 स्थापना 3 ट्रांसफार्मर बैंक को आश्वासित ना करे इसलिए त्रिफेज लोड तुलनात्मक रूप से लघु होता है, तो इनमें से कौन सा त्रिफेज ट्रांसफार्मर इस्तेमाल किया जाता है?

Question ID : **7368158230**
Status : **Answered**
Chosen Option : **1**

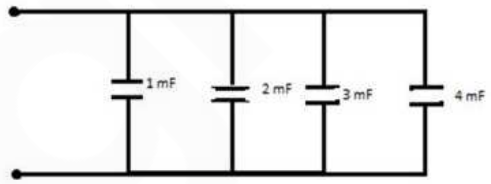
Ans
✓ 1. V-V संबंधन
✗ 2. डेल्टा-स्टार संबंधन
✗ 3. T-T स्कॉट संबंधन
✗ 4. Y-Y संबंधन

Q. 15 Deflection produced in Moving Iron Instruments is:

Question ID : **7368158208**
Status : **Answered**
Chosen Option : **4**

Ans
✗ 1. inversely proportional to rms value of operating current
✗ 2. proportional to rms value of operating current
✗ 3. inversely proportional to square of rms value of operating current
✓ 4. proportional to square of rms value of operating current

Q. 16 What will be the resultant capacitance of the given combination?



Question ID : **7368158199**
Status : **Answered**
Chosen Option : **3**

Ans
✗ 1. 5 mF
✗ 2. 0.48 mF
✓ 3. 10 mF
✗ 4. 0.67 mF

Q. 17 If the slip in an induction motor is 0.25 and the synchronous speed is 600 rpm, the motor speed (in rpm) would be:

Question ID : **7368158240**
Status : **Answered**
Chosen Option : **1**

Ans
✔ 1. 450
✘ 2. 125
✘ 3. 750
✘ 4. 900

Q. 18 Which of the following statements regarding a shell type transformer is INCORRECT?

Question ID : **7368158226**
Status : **Answered**
Chosen Option : **2**

Ans
✘ 1. It provides shorter magnetic path
✔ 2. Natural cooling is quite good
✘ 3. It gives better support against electromagnetic forces between current carrying transformer
✘ 4. Magnetizing current is lesser as compared to core type

Q. 19 The detrimental effects of armature reaction can be controlled by:

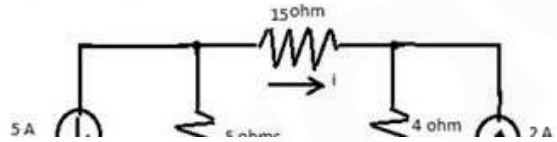
1. Increasing the length of air gap
2. Using commutating poles
3. Increasing the cross-section of pole pieces

Which of these is/are incorrect?

Question ID : **7368158235**
Status : **Answered**
Chosen Option : **4**

Ans
✘ 1. Only 1
✔ 2. Only 3
✘ 3. 2 and 3
✘ 4. 1 and 2

Q. 20 Find out the value of i.



Question ID : **7368158183**
Status : **Answered**
Chosen Option : **4**

Ans
✘ 1. 7.985 A
✘ 2. 5.009 A
✘ 3. 2.889 A
✔ 4. 1.375 A

Q.21 If there were no copper losses in the motor:

Question ID : **7368158244**
Status : **Answered**
Chosen Option : **3**

Ans
✘ 1. rotor runs at normal speed
✘ 2. rotor does not run
✘ 3. rotor runs at infinite speed
✔ 4. rotor runs at synchronous speed

Q.22 Which of the following oscillates

1. Open loop system
2. Closed loop system

Which of the following is/are correct?

Question ID : **7368158214**
Status : **Answered**
Chosen Option : **2**

Ans
✗ 1. Only 1
✗ 2. Both 1 and 2
✗ 3. Neither 1 nor 2
✓ 4. Only 2

Q.23 For normal biasing, the emitter junction of BJT has:

Question ID : **7368158255**
Status : **Answered**
Chosen Option : **2**

Ans
✗ 1. very high resistance
✗ 2. high resistance
✓ 3. low resistance
✗ 4. no resistance

Q.24 क्रिस्टल में परमाणु कंपन की आवृत्ति को निम्नलिखित में से कौन निर्धारित करता है?

Question ID : **7368158218**
Status : **Answered**
Chosen Option : **4**

Ans
✗ 1. क्रिस्टल का ऊष्मा तत्व
✗ 2. क्रिस्टल का तापमान
✓ 3. उसने पड़ोसी के साथ बनाए हुए आबंधों की कठोरता
✗ 4. क्रिस्टल में प्रति इकाई परमाणुओं की संख्या

Q.25 For elements having energy gap more than 5 eV, act as:

Question ID : **7368158246**
Status : **Answered**
Chosen Option : **2**

Ans
✗ 1. Semiconductors
✓ 2. Insulators
✗ 3. Superconductors
✗ 4. Conductors

Q.26 A DC generator efficiency is maximum when:

Question ID : **7368158234**
Status : **Answered**
Chosen Option : **3**

Ans
✗ 1. Constant loss – Variable loss=1
✗ 2. Variable loss – Constant loss=1
✓ 3. Variable loss – Constant loss=0
✗ 4. Variable loss + Constant loss=1

Q.27 The magnitude of critical density in a superconductor depends on:

Question ID : **7368158222**
Status : **Answered**
Chosen Option : **2**

Ans
✗ 1. temperature
✓ 2. Both temperature and magnetic field strength
✗ 3. temperature for some time and then on magnetic field strength
✗ 4. magnetic field strength

Q. 28 According to Super position theorem, a Voltage source of 0 V can be replaced by a:

Question ID : **7368158186**
Status : **Answered**
Chosen Option : **4**

Ans
✗ 1. 5 V
✗ 2. Cannot be replaced
✗ 3. Open circuit
✓ 4. Short circuit

Q. 29 What can be done in order to prevent Creeping in Energy meters?

Question ID : **7368158204**
Status : **Answered**
Chosen Option : **1**

Ans
✓ 1. Two diametrically opposite holes are drilled in the disc
✗ 2. Creeping can't be prevented
✗ 3. Friction is over compensated
✗ 4. Disc is made to run where there is no current

Q. 30 What do we call an externally introduced signal which affects the controlled output?

Question ID : **7368158213**
Status : **Answered**
Chosen Option : **1**

Ans
✗ 1. Feedback
✓ 2. Stimulus
✗ 3. Gain Control
✗ 4. Signal

Q. 31 A Varactor diode finds its applications in:

1. Low Noise Parametric Amplifier
2. Frequency Convector
3. Harmonic Frequency Generator

Which of these is/are CORRECT?

Question ID : **7368158253**
Status : **Answered**
Chosen Option : **1**

Ans
✓ 1. 1, 2 and 3
✗ 2. Only 2
✗ 3. 1 and 2
✗ 4. 2 and 3

Q. 32 Which of the following increases Steady State Accuracy?

Question ID : **7368158212**
Status : **Answered**
Chosen Option : **4**

Ans
✓ 1. Integrator
✗ 2. Phase Lead Compensator
✗ 3. Differentiator
✗ 4. Phase Lag Compensator

Q. 33 Which of the following is not an example of Intrinsic semiconductor?

Question ID : **7368158217**
Status : **Answered**
Chosen Option : **4**

Ans
✗ 1. Germanium
✗ 2. Selenium
✗ 3. Silicon
✓ 4. Argentum

Q. 34 In a Common Base Configuration, BJT has _____ input impedance and_____ output impedance.

Question ID : **7368158259**
Status : **Answered**
Chosen Option : **2**

Ans
1. high, high
2. low, high
3. low, low
4. high, low

Q. 35 For the measurement of high resistances, following methods are used:
1. Loss of Charge Method
2. Direct Deflection Method
3. Substitution Method

Which of the following is/are correct?

Question ID : **7368158206**
Status : **Answered**
Chosen Option : **1**

Ans
1. 1 and 2
2. 2 and 3
3. Only 1
4. 1 and 3

Q. 36 Which one of the following condition is true about parallel RLC circuit?

Question ID : **7368158200**
Status : **Answered**
Chosen Option : **3**

Ans
1. IR = V/Xc, Ic = V/R, IL = V/XL
2. VR = IR, VL = I. XL, VC = I. Xc
3. IR = V/R, Ic = V/Xc, IL = V/XL
4. IR = V/XL, Ic = V/R, IL = V/Xc

Q.37 Carbon electrodes are used in:
1. GLS lamps
2. Dry cells
3. Arc furnace

Which of the following is/are correct?

Question ID : **7368158221**
Status : **Answered**
Chosen Option : **1**

Ans
1. 1, 2 and 3
2. 2 and 3
3. 1 and 3
4. Only 1

Q. 38 निम्नलिखित में से कौन से उपकरण एक विशिष्ट समय अंतराल की घटनाओं का योजिकरण करता है?

Question ID : **7368158201**
Status : **Answered**
Chosen Option : **4**

Ans
1. सूचक यंत्र
2. सभी प्रकार के एनालॉग उपकरण
3. अभिलेखन उपकरण
4. समकालनीय उपकरण

Q. 39 Superconductors now a day found their application in various fields. This is due to the fact that they:

Question ID : **7368158223**
Status : **Answered**
Chosen Option : **1**

Ans
1. manufacture bubble memories
2. generate regions free from magnetic field
3. generate very strong magnetic field
4. generate electrostatic field

Q. 40 Materials with low resistivity do not find their applications in:

Question ID : **7368158216**
Status : **Answered**
Chosen Option : **1**

Ans
✔ 1. heating element
✘ 2. transformers
✘ 3. house wiring
✘ 4. transmission lines

Q. 41 In armature winding, the distance between the segments to which the ends of coils are connected is?

Question ID : **7368158231**
Status : **Answered**
Chosen Option : **3**

Ans
✘ 1. resultant pitch
✘ 2. front pitch
✔ 3. commutator pitch
✘ 4. back pitch

Q. 42 If two or more components are connected in _____ they have the same potential difference (voltage) across their ends.

Question ID : **7368158198**
Status : **Answered**
Chosen Option : **1**

Ans
✔ 1. parallel
✘ 2. opposite
✘ 3. parallel-series
✘ 4. series

Q. 43 In electric braking of shunt motors, plugging is used to control.

1. Printing press
2. Rolling mills
3. Elevators

The incorrect amongst these is/are:

Question ID : **7368158241**
Status : **Answered**
Chosen Option : **2**

Ans
✘ 1. Only 3
✘ 2. 1 and 2
✔ 3. None of the other options
✘ 4. 2 and 3

Q. 44 Which of the following generator has zero percent regulation?

Question ID : **7368158238**
Status : **Answered**
Chosen Option : **4**

Ans
✘ 1. Both Under compound and Flat compound
✘ 2. Under compound
✘ 3. Over compound
✔ 4. Flat compound

Q. 45 If the output power of a transformer is 600 W whereas the losses are 200 W, the efficiency of the transformer will be:

Question ID : **7368158227**
Status : **Answered**
Chosen Option : **3**

Ans
✘ 1. 50%
✘ 2. 41.4%
✔ 3. 75%
✘ 4. 66.6%

Q. 46 The point of intersection of two or more branches in any network is known as:

Question ID : **7368158182**
Status : **Answered**

Ans
✘ 1. Branch

2. Node
3. Twig
4. Path

Chosen Option : **2**

Q. 47 Out of the following, what happens to the overall gain of the system of a closed loop control system with positive value of feedback gain?

Ans

1. No effect
2. Increase
3. Decrease
4. Increase or Decrease

Question ID : **7368158215**
Status : **Answered**
Chosen Option : **2**

Q. 48 In an induction motor, at speeds near to synchronous speed, the torque-speed and torque-slip curves are approximately:

Ans

1. parabolas
2. ellipses
3. hyperbolas
4. straight lines

Question ID : **7368158243**
Status : **Answered**
Chosen Option : **3**

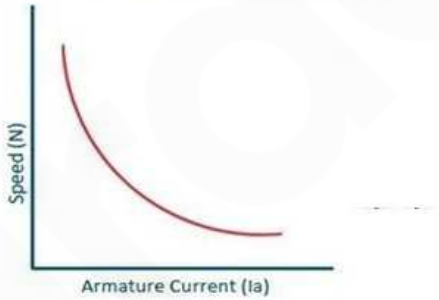
Q.49 FET is a _____ controlled device.

Ans

1. current
2. resistance
3. impedance
4. voltage

Question ID : **7368158258**
Status : **Answered**
Chosen Option : **4**

Q. 50 The following figure is the Speed-Current characteristics of:



Ans

1. Differential Compound Motor
2. Cumulative Compound Motor
3. Shunt Motor
4. Series Motor

Question ID : **7368158224**
Status : **Answered**
Chosen Option : **4**

Q. 51 If the alternating current equation is i=64.8 sin423t. What will be the average current?

Ans

1. 41.21 A
2. 67.45 A
3. 5.99 A
4. 56.78 A

Question ID : **7368158196**
Status : **Answered**
Chosen Option : **1**

Q. 52 The real name of MOSFET is IG FET because the gate here is:

Question ID : **7368158257**
Status : **Answered**
Chosen Option : **2**

Ans
1. biased ✗
2. insulated ✓
3. open ✗
4. inductive ✗

Q. 53 Compound generators are used to supply power to:

Question ID : **7368158237**
Status : **Answered**
Chosen Option : **4**

Ans
1. incandescent lamps ✗
2. railway circuits ✗
3. elevator motors ✗
4. ✓
railway circuits, incandescent lamps and elevator motors

Q.54 In a semiconductor, Drift current is due to:

Question ID : **7368158250**
Status : **Answered**
Chosen Option : **4**

Ans
1. volume gradient ✗
2. diffusion of charge ✗
3. concentration gradient ✗
4. applied electric field ✓

Q. 55 Assertion A: Copper Losses are small in Squirrel cage induction motors.
Reason R: Overhang is less and space factor is better in Squirrel cage induction motors.

Question ID : **7368158245**
Status : **Answered**
Chosen Option : **3**

Ans
1. R is correct but A is not correct ✗
2. A is correct but R is not correct ✗
3. ✓
A is correct and R is the suitable reason for it
4. ✗
A is correct but R is not a suitable reason for it

Q. 56 In a BJT, collector region width is maximum when it:
1. collects maximum number of charge carrier

Question ID : **7368158254**
Status : **Answered**
Chosen Option : **3**

Ans
1. Only 1 is correct ✗
2. None is correct ✗
3. Both 1 and 2 are correct ✓
4. Only 2 is correct ✗

Q. 57 How many crystal systems are known till date?

Question ID : **7368158219**
Status : **Answered**
Chosen Option : **1**

Ans
1. 7 ✓
2. 12 ✗
3. 6 ✗
4. 10 ✗

Q. 58 The generated emf per parallel path in armature of a DC Generator is:

1. Directly proportional to flux
2. Inversely proportional to number of poles
3. Directly proportional to rotational speed of armature

Which of these is/are correct?

Question ID : **7368158232**
Status : **Answered**
Chosen Option : **4**

Ans
1. ✗ 2 and 3
2. ✗ Only 2
3. ✗ 1 and 2
4. ✓ 1 and 3

Q. 59 For a Lap wound generator, the number of parallel paths in armature is taken to be:

Question ID : **7368158233**
Status : **Answered**
Chosen Option : **4**

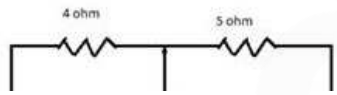
Ans
1. ✗ 4
2. ✗ 2
3. ✗ number of poles/2
4. ✓ number of poles

Q. 60 Iron losses in a transformer is a sum of:

Question ID : **7368158228**
Status : **Answered**
Chosen Option : **3**

Ans
1. ✗ copper loss and hysteresis loss
2. ✗ constant loss and copper loss
3. ✓ hysteresis loss and eddy current loss
4. ✗ copper loss, eddy current loss and hysteresis loss

Q. 61 Find the Thevenin's voltage Vth across 2 ohm resistance.



Question ID : **7368158187**
Status : **Answered**
Chosen Option : **4**

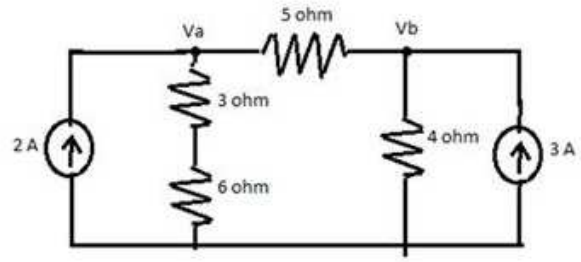
Ans
1. ✗ 8.908 V
2. ✗ 3.455 V
3. ✗ 4.778 V
4. ✓ 2.571 V

Q. 62 A series or parallel RLC circuit is said to be over damped if:

Question ID : **7368158194**
Status : **Answered**
Chosen Option : **2**

Ans
1. ✗ $\alpha = \omega n$
2. ✓ $\alpha > \omega n$
3. ✗ $\alpha < \omega n$
4. ✗ $2\alpha = \omega n$

Q. 63 Find out the node voltages of the given circuit.



Question ID : **7368158181**
Status : **Answered**
Chosen Option : **4**

Ans
1. Va = 0 V, Vb = 120 V
2. Va = 1.89 V, Vb =16 V
3. Va = 0 V, Vb = 0 V
4. Va = 15 V, Vb = 13.3 V

Q. 64 A 12-pole induction motor has a frequency of 60 Hz. Its synchronous speed would be:

Question ID : **7368158242**
Status : **Answered**
Chosen Option : **1**

Ans
1. 600 rpm
2. 480 rpm
3. 660 rpm
4. 500 rpm

Q. 65 The current in a circuit follows the relation i = 200sinωt. If frequency is 50 Hz, how long will it take for the current to rise to 100 A?

Question ID : **7368158195**
Status : **Not Attempted**
Chosen Option : **--**

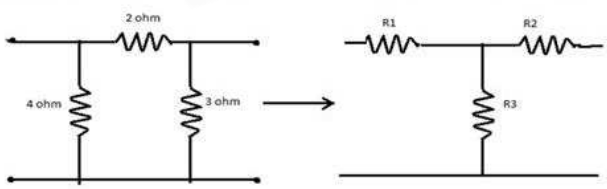
Ans
1. 3.33 ms
2. 5.98 ms
3. 0.32 ms
4. 1.66 ms

Q. 66 ट्रांसफार्मर्स को समांतर क्रम में _____ की आपूर्ति करने हेतु संयोजित किया जाता है।

Question ID : **7368158229**
Status : **Answered**
Chosen Option : **4**

Ans
1. विद्यमान ट्रांसफार्मर में निर्धारित श्रेणी से कम भार
2. विद्यमान ट्रांसफार्मर में निर्धारित श्रेणी से अधिक भार
3. विद्यमान ट्रांसफार्मर में निर्धारित श्रेणी से बराबर भार
4. विद्यमान ट्रांसफार्मर में निर्धारित श्रेणी से कम या बराबर भार

Q. 67 In the given Delta-wye conversion, Find the value of R1, R2 & R3.



Question ID : **7368158190**
Status : **Answered**
Chosen Option : **3**

Ans
1. 9/12, 9/6, 9/8
2. 6/9, 12/9, /8/9
3. 8/9, 6/9, 12/9

4. 9/6, 9/12, 9/8

Q. 68 For ammeter shunts, which one of the following is not a possible requirement?

Question ID : **7368158205**
Status : **Answered**
Chosen Option : **1**

Ans
1. It should have high thermal automotive force
2. It should carry current without excessive temperature rise
3. Its resistance should not vary with time
4. Its temperature coefficient must be low

Q. 69 Distribution Transformers:

1. Have good voltage regulation
2. Are designed for small value of current

Which of these is/are CORRECT?

Question ID : **7368158225**
Status : **Answered**
Chosen Option : **2**

Ans
1. Only 2
2. Both 1 and 2
3. Only 1
4. Neither 1 nor 2

Q. 70 A tunnel diode is fabricated from:

Question ID : **7368158252**
Status : **Answered**
Chosen Option : **3**

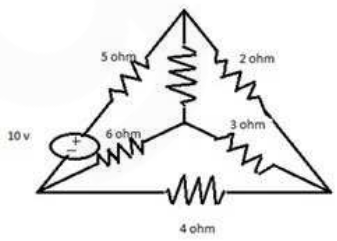
Ans
1. Ge
2. Si
3. GaAs
4. Ge or GaAs

Q. 71 In FET, the np region between source and gate is:

Question ID : **7368158256**
Status : **Answered**
Chosen Option : **2**

Ans
1. forward biased
2. forward or reverse biased
3. reverse biased
4. unbiased

Q. 72 What will be the number of tie set currents in the given circuit?



Question ID : **7368158185**
Status : **Answered**
Chosen Option : **1**

Ans
1. 4
2. 3
3. 6
4. 1

Q. 73 According to Tellegen's theorem, which one of the following is correct?

Question ID : **7368158189**
Status : **Answered**
Chosen Option : **1**

Ans
✔ 1. Σ power delivered =Σ power absorbed
✘ 2. Σ power delivered =K/Σ power absorbed
✘ 3. Σ power delivered =1/Σ power absorbed
✘ 4. Σ power delivered =2xΣ power absorbed

Q. 74 Assertion A: Si can be operated at high temperature
Reason R: Energy gap of Ge is more than Si

Question ID : **7368158249**
Status : **Answered**
Chosen Option : **2**

Ans
✔ 1. A is correct but R is not correct
✘ 2. A is correct but R is not a suitable reason for it
✘ 3. A is correct and R is the suitable reason for it
✘ 4. R is correct but A is not correct

Q. 75 The energy which any electron possesses at 0 K is :

Question ID : **7368158248**
Status : **Answered**
Chosen Option : **2**

Ans
✔ 1. Fermi level
✘ 2. Valence energy
✘ 3. Exergy
✘ 4. Conduction energy

Q. 76 DC bias is adjusted greater than its cut-off value so that the output current flow for less than half of the input voltage cycle, in:

Question ID : **7368158260**
Status : **Answered**
Chosen Option : **4**

Ans
✘ 1. Class AB amplifier
✘ 2. Class A amplifier
✘ 3. Class B amplifier
✔ 4. Class C amplifier

Q. 77 Assertion A: Separately excited generators are used in Ward Leonard System of speed control but self-excited are not.
Reason R: Self excitation is unsuitable at lower voltages.

Question ID : **7368158236**
Status : **Answered**
Chosen Option : **3**

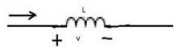
Ans
✘ 1. A is correct but R is not a suitable reason for it
✘ 2. R is correct but A is not correct
✔ 3. A is correct and R is the suitable reason for it
✘ 4. A is correct but R is not correct

Q. 78 In a RLC circuit Inductance is 20 mH and capacitance is 200 micro Farad. Find the resonance frequency of the circuit.

Question ID : **7368158193**
Status : **Not Attempted**
Chosen Option : **--**

Ans
✘ 1. 1000 rad/sec
✘ 2. 250 rad/sec
✔ 3. 500 rad/sec
✘ 4. 50 rad/sec

Q. 79 For the given circuit find the value of v at t =12 ms. If current is given as i=10te^(-100t) A. (Where L=25 mH).



Ans
1. 34.09 mV
2. -0.987 mV
3. -15.06 mV
4. 87.99 mV

Question ID : **7368158191**
Status : **Not Attempted**
Chosen Option : **--**

Q.80 कार्बन प्रतिरोध का संयोजन क्या है?

Ans
1. चूर्णित कोयला
2. लकड़ी का पिसा हुआ कोयला
3. ठीक से अलग किया हुआ कार्बन ब्लैक
4. कागजी राख

Question ID : **7368158220**
Status : **Answered**
Chosen Option : **3**

Section : **General Knowledge**

Q. 1 Sri Lanka is separated from India by a narrow channel of sea formed by the Palk Strait and:

Ans
1. Gulf of Mannar
2. Gulf of Gibralter
3. Gulf of Kuch
4. Gulf of Sinhala

Question ID : **7368158261**
Status : **Answered**
Chosen Option : **4**

Q. 2 Who won the title of Australian open tennis tournament in women's singles category in 2016?

Ans
1. Sania Mirza
2. Angelique Kerber
3. Venus Williams
4. Maria Sharapova

Question ID : **7368158269**
Status : **Answered**
Chosen Option : **2**

Q. 3 निम्नलिखित में से कौन सी ऊर्जा मापन की एक इकाई नहीं है?

Ans
1. जूल (Joules)
2. कैलोरी (Calories)
3. फ़ैदम (Fathoms)
4. अर्ग (Ergs)

Question ID : **7368158268**
Status : **Answered**
Chosen Option : **3**

Q.4 The Indian constitution came into force on:

Ans
1. 26th Jan 1951
2. 26th Jan 1955
3. 26th Jan 1950
4. 26th Jan 1949

Question ID : **7368158266**
Status : **Answered**
Chosen Option : **3**

Q. 5 Param Yuva II, designed by C-DAC in PUNE is a type of:

Ans
1. Space shuttle
2. Bullet train

Question ID : **7368158267**
Status : **Answered**
Chosen Option : **4**

✗ 3. Missile

✓ 4. Super computer

Q. 6 1928 में गठित किये गए HSRA समूह का पूरा नाम क्या है, जिसके एक सदस्य शहीद भगत सिंह थे?

Question ID : **7368158262**
Status : **Answered**
Chosen Option : **1**

Ans

✓ 1. हिंदुस्तान सोशलिस्ट रिपब्लिकन आर्मी

✗ 2. हिंदुस्तान सोशलिस्ट रेनेसां आर्मी

✗ 3. हिंदुस्तान सोशलिस्ट रिवॉल्यूशनरी आर्मी

✗ 4. हिंदुस्तान सोशलिस्ट रेबेल आर्मी

Q. 7 2016 का 'के. वीरमणि सामाजिक न्याय पुरस्कार' किसे दिया गया है?

Question ID : **7368158270**
Status : **Answered**
Chosen Option : **4**

Ans

✗ 1. अखिलेश यादव

✗ 2. के. चंद्र शेखर राव

✗ 3. चंद्रबाबू नायडू

✓ 4. नीतिश कुमार

Q. 8 विदेशी विनिमय से संबंधित शब्द FERA का पूरा नाम है:

Question ID : **7368158264**
Status : **Answered**
Chosen Option : **4**

Ans

✗ 1. फ़ॉरेन एक्सचेंज रीइंबर्समेंट एक्ट

✗ 2. फ़ॉरेन एक्सचेंज रिम्युनरेशन एक्ट

✗ 3. फ़ॉरेन एक्सचेंज रेस्ट्रिक्शन एक्ट

✓ 4. फ़ॉरेन एक्सचेंज रेग्युलेशन एक्ट

Q. 9 Which Indian state has a separate constitution?

Question ID : **7368158265**
Status : **Answered**
Chosen Option : **1**

Ans

✓ 1. Jammu & Kashmir

✗ 2. Madhya Pradesh

✗ 3. Tamil Nadu

✗ 4. Manipur

Q. 10 First official census in India was conducted in the year _____.

Question ID : **7368158263**
Status : **Answered**
Chosen Option : **2**

Ans

✗ 1. 1927

✗ 2. 1910

✗ 3. 1887

✓ 4. 1871

Section : **Reasoning**

Q. 1 R, S, M तथा G नामक चार भाई अपनी वार्षिक पारिवारिक संपत्ति कि लड़ाई के लिए एक गोल मेज में एक दूसरे के आमने-सामने बैठे हैं। इनके व्यवसाय हैं - लेखक, बॉयोलॉजिस्ट, केमिस्ट और चिकित्सक, लेकिन ठीक इसी क्रम में हो ऐसा जरुरी नहीं है। G ने बैठक कि कार्यसूची निर्धारित करते हुए आरंभ किया, और उसके पश्चात चिकित्सक ने एक लंबा व्याख्यान दिया कि क्या सही है और क्या गलत है। चिकित्सक के सामने बैठा है, और केमिस्ट के बगल में R बैठा है। M पूरी बैठक में खामोश रहता है, और केमिस्ट बिलकुल अंत में बोलता है।

R का पेशा बताएं:

Question ID : **7368158274**
Status : **Answered**
Chosen Option : **4**

s
✔ अपर्याप्त आंकड़े
✘ 2. चिकित्सक
✘ 3. लेखक
✘ 4. बायोलॉजिस्ट

Q. 2 ईरान का बगदाद से ठीक वही संबंध है, जो कि ऑस्ट्रिया का _____ से संबंध है।

Ans
✔ 1. विएना
✘ 2. ओटावा
✘ 3. लिस्बन
✘ 4. एथेन्स

Question ID : **7368158273**
Status : **Answered**
Chosen Option : **1**

Q. 3 यदि X, Q की मौसी है, जो कि Z का पुत्र है, और Z, E का दामाद है, तो X का E से क्या रिश्ता है?

Ans
✘ 1. बहन
✘ 2. माँ
✔ 3. पुत्री
✘ 4. मौसी (Aunt)

Question ID : **7368158271**
Status : **Answered**
Chosen Option : **3**

Q. 4 यदि एक विशिष्ट संकेत भाषा में GUN को HVO लिखा जाता है, तो IBU को क्या लिखा जाएगा?

Ans
✔ 1. HAT
✘ 2. HEN
✘ 3. NOT
✘ 4. RAT

Question ID : **7368158278**
Status : **Answered**
Chosen Option : **1**

Q. 5 In a certain code, KNOWLEDGE is coded as 256535475, how is GENERAL coded in that code?

Ans
✘ 1. 7555931
✘ 2. 7545993
✔ 3. 7555913
✘ 4. 7969393

Question ID : **7368158277**
Status : **Answered**
Chosen Option : **3**

Q. 6 श्री. C बाएँ से नौवीं कुर्सी पर बैठे हैं, तथा उनका मुख उत्तर दिशा की ओर है, दाएँ तरफ से सतराहवीं कुर्सी पर बैठे हैं। एक पंक्ति में कुर्सियों की कुल संख्या कितनी है?

Ans
✘ 1. 23 कुर्सियां
✔ 2. 25 कुर्सियां
✘ 3. 26 कुर्सियां
✘ 4. 40 कुर्सियां

Question ID : **7368158276**
Status : **Answered**
Chosen Option : **2**

Q.7 Identify the similar set of numbers.
(64, 81, 144)

Ans
✘ 1. (464, 467, 4840)
✔ 2. (256, 324, 361)
✘ 3. (21, 34, 14)

Question ID : **7368158272**
Status : **Answered**
Chosen Option : **2**

✗ 4. (789, 491, 68)

Q. 8 Select from the given choices the letter sequence that completes the following sequence in an order.
a a _ _ b _ a a _ _ a b

Question ID : **7368158275**
Status : **Answered**
Chosen Option : **2**

Ans
✗ 1. a a a b b
✓ 2. a b b b b
✗ 3. b b a a
✗ 4. a b a b

Q. 9 A और B ने एक स्थायी जगह से आरंभ किया। A उत्तर की दिशा में 3 कि.मी. चलने के पश्चात दाएं तरफ मुड़कर 4 कि.मी. चलता है। B पश्चिम दिशा में 5 कि.मी. चलने के पश्चात दाएं तरफ मुड़कर 3 कि.मी. चलता है। अब A और B एक दूसरे से कितने दूर हैं?

Question ID : **7368158279**
Status : **Answered**
Chosen Option : **4**

Ans
✗ 1. 4 कि.मी.
✗ 2. 5 कि.मी.
✗ 3. 8 कि.मी.
✓ 4. 9 कि.मी.

Q. 10 Determine the pattern and fill in the missing number.
3, 8, 18, 38, ___, 158

Question ID : **7368158280**
Status : **Answered**
Chosen Option : **1**

Ans
✓ 1. 78
✗ 2. 65
✗ 3. 60
✗ 4. 67

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