

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

Section : **Technical**

**Q. 1**

**Ans** 1. magnetic effect  
 ✓ 2.  
 3. induction effect  
 4.

Question ID : 7368158202  
 Status : Answered  
 Chosen Option : 4

**Q. 2**

**Ans** ✗ 1. reduced incidence  
 2.  
 3. tie set  
 4.

Question ID : 7368158184  
 Status : Answered  
 Chosen Option : 3

**Q. 3** What will be the value of current  $I_L$  through the resistor at  $t = 1$  ns if  $I_R(0) = 6$  Ampere.

**Ans** 1.  
 ✗ 2. 4.66 mA  
 3.  
 ✗ 4.

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

**Q. 4**

**Ans** ✓ 1.  
 2.  
 ✗ 3.  
 4.

Question ID : 7368158197  
 Status : Answered  
 Chosen Option : 1

**Q. 5**

**Ans** ✗ 1.  
 2.

Question ID : 7368158211  
 Status : Answered  
 Chosen Option : 4

- 3.
- 4.

Q. 6  
Ans

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

Question ID : 7368158203  
Status : Answered  
Chosen Option : 4

Q. 7  
Ans

- 1.
- ✓ 2.
- 3.
- ✗ 4.

Question ID : 7368158247  
Status : Answered  
Chosen Option : 2

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

- Ans
- ✗ 1. 2 - 4 V
  - 2.
  - ✓ 3. 4 - 6 V
  - 4.

Question ID : 7368158251  
Status : Answered  
Chosen Option : 2

Q. 9  
Ans

- 1.  $RL = Rs$
- ✗ 2.
- ✗ 3.
- ✗ 4.  $RL = 2Rs$

Question ID : 7368158188  
Status : Answered  
Chosen Option : 1

Q. 10 Match the following 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

- Ans
- ✗ 1.
  - 2.
  - ✗ 3.
  - 4.

Question ID : 7368158210  
Status : Answered  
Chosen Option : 4

Q.11

- Ans
- 1.
  - 2.
  - 3.
  - ✗ 4.

Question ID : 7368158207  
Status : Answered  
Chosen Option : 3

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

- Answers
- 1. loss factor
  - 2.
  - 3. inductance
  - 4. capacitance

Question ID : 7368158209  
 Status : Answered  
 Chosen Option : 2

Q.13

- Answers
- 1.
  - 2.
  - 3.
  - 4.

Question ID : 7368158239  
 Status : Answered  
 Chosen Option : 2

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

- Answers
- 1.
  - 2.
  - 3.
  - 4.

Question ID : 7368158230  
 Status : Answered  
 Chosen Option : 1

Q. 15

- Answers
- 1. inversely proportional to rms value of operating current
  - 2.
  - 3.
  - 4.

Question ID : 7368158208  
 Status : Answered  
 Chosen Option : 4

Q. 16

- Answers
- 1.
  - 2.
  - 3.
  - 4. 0.67 mF

Question ID : 7368158199  
 Status : Answered  
 Chosen Option : 3

Q. 17

- Ans  1.  
 2.  
 3.  
 4.

Question ID : 7368158240  
 Status : Answered  
 Chosen Option : 1

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

- Ans  1.  
 2.  
 3.  
 4.
- It gives better support against electromagnetic forces between current carrying transformer
- Magnetizing current is lesser as compared to core type

Question ID : 7368158226  
 Status : Answered  
 Chosen Option : 2

Q. 19

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

Question ID : 7368158235  
 Status : Answered  
 Chosen Option : 4

Q. 20

- Ans  1.  
 2. 5.009 A  
 3.  
 4.

Question ID : 7368158183  
 Status : Answered  
 Chosen Option : 4

Q.21

- Ans  1.  
 2. rotor does not run  
 3.  
 4.

Question ID : 7368158244  
 Status : Answered  
 Chosen Option : 3

Q.2  
2Question ID : 7368158214  
Status : Answered  
Chosen Option : 2

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

Q.  
23Question ID : 7368158255  
Status : Answered  
Chosen Option : 2

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

Q. क्रिस्टल में परमाणु कंपन की आवृत्ति को निम्नलिखित में से कौन निर्धारित करता है?  
24Question ID : 7368158218  
Status : Answered  
Chosen Option : 4

- Ans
- 1. क्रिस्टल का ऊष्मा तत्व
  - 2.
  - 3.
  - 4. क्रिस्टल में प्रति इकाई परमाणुओं की संख्या

Q.  
25Question ID : 7368158246  
Status : Answered  
Chosen Option : 2

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

Q.  
26Question ID : 7368158234  
Status : Answered  
Chosen Option : 3

- Ans
- 1. Constant loss – Variable loss=1
  - 2.
  - 3.
  - 4.

Q. The magnitude of critical density in a superconductor depends on:  
27Question ID : 7368158222  
Status : Answered  
Chosen Option : 2

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

Q. 28

- Answers
- 1.
  - 2. Cannot be replaced
  - 3.
  - 4.

Question ID : 7368158186  
 Status : Answered  
 Chosen Option : 4

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

- Answers
- 1.
  - 2.
  - 3.
  - 4. Disc is made to run where there is no current

Question ID : 7368158204  
 Status : Answered  
 Chosen Option : 1

Q. 30

- Answers
- 1.
  - 2. Stimulus
  - 3.
  - 4.

Question ID : 7368158213  
 Status : Answered  
 Chosen Option : 1

Q.31

- Answers
- 1. 1, 2 and 3
  - 2.
  - 3.
  - 4.

Question ID : 7368158253  
 Status : Answered  
 Chosen Option : 1

Q. 32

- Answers
- 1.
  - 2.
  - 3. Differentiator
  - 4. Phase Lag Compensator

Question ID : 7368158212  
 Status : Answered  
 Chosen Option : 4

Q. 33

- Answers
- 1.
  - 2.
  - 3. Silicon
  - 4.

Question ID : 7368158217  
 Status : Answered  
 Chosen Option : 4

Q. 34

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

Question ID : 7368158259  
 Status : Answered  
 Chosen Option : 2

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?

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

Question ID : 7368158206  
 Status : Answered  
 Chosen Option : 1

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

- Ans
- 1.  $IR = V/X_c, I_c = V/R, I_L = V/X_L$
  - 2.
  - 3.  $IR = V/R, I_c = V/X_c, I_L = V/X_L$
  - 4.

Question ID : 7368158200  
 Status : Answered  
 Chosen Option : 3

Q.37 Carbon electrodes are used in:

- 1. GLS lamps
- 2. Dry cells
- 3. Arc furnace

Which of the following is/are correct?

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

Question ID : 7368158221  
 Status : Answered  
 Chosen Option : 1

Q. 38

- Ans
- 1.
  - 2.
  - 3. अभिलेखन उपकरण
  - 4.

Question ID : 7368158201  
 Status : Answered  
 Chosen Option : 4

Q. 39

- Ans
- 1. manufacture bubble memories
  - 2.
  - 3.
  - 4.

Question ID : 7368158223  
 Status : Answered  
 Chosen Option : 1

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

- Answers
- 1. heating element
  - 2.
  - 3.
  - 4.

Question ID : 7368158216  
 Status : Answered  
 Chosen Option : 1

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

- Answers
- 1.
  - 2.
  - 3.
  - 4.

Question ID : 7368158231  
 Status : Answered  
 Chosen Option : 3

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

- Answers
- 1.
  - 2.
  - 3. parallel-series
  - 4.

Question ID : 7368158198  
 Status : Answered  
 Chosen Option : 1

Q. 43

- Answers
- 1. Only 3
  - 2.
  - 3.
  - 4.

Question ID : 7368158241  
 Status : Answered  
 Chosen Option : 2

Q. 44

- Answers
- 1. Both Under compound and Flat compound
  - 2.
  - 3.
  - 4.

Question ID : 7368158238  
 Status : Answered  
 Chosen Option : 4

Q. 45

- Answers
- 1. 50%
  - 2.
  - 3. 75%
  - 4.

Question ID : 7368158227  
 Status : Answered  
 Chosen Option : 3

Q. 46

- Answers
- 1.

Question ID : 7368158182  
 Status : Answered



2.

3.

4.

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.

2. Increase

3. Decrease

4.

Question ID : 7368158215

Status : Answered

Chosen Option : 2

Q. 48

Ans 1.

2. ellipses

3.

4.

Question ID : 7368158243

Status : Answered

Chosen Option : 3

Q. 49 FET is a \_\_\_\_\_ controlled device.

Ans 1. current

2. resistance

3.

4.

Question ID : 7368158258

Status : Answered

Chosen Option : 4

Q. 50

Question ID : 7368158224

Status : Answered

Chosen Option : 4

Ans  1. Differential Compound Motor

2. Cumulative Compound Motor

3.

4.

Q. 51 If the alternating current equation is  $i=64.8 \sin 423t$ . What will be the average current?

Ans 1.

2.

3.

4.

Question ID : 7368158196

Status : Answered

Chosen Option : 1

Q. 52

- Answers
- 1.
  - ✓ 2.
  - ✗ 3.
  - 4. inductive

Question ID : 7368158257  
 Status : Answered  
 Chosen Option : 2

Q. 53

- Answers
- 1.
  - 2.
  - 3.
  - 4.

railway circuits, incandescent lamps and elevator motors

Question ID : 7368158237  
 Status : Answered  
 Chosen Option : 4

Q. 54

- Answers
- 1.
  - 2.
  - 3. concentration gradient
  - 4. applied electric field

Question ID : 7368158250  
 Status : Answered  
 Chosen Option : 4

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.

- Answers
- ✗ 1.
  - 2.
  - 3.
  - 4.

Question ID : 7368158245  
 Status : Answered  
 Chosen Option : 3

Q. 56 In a BJT, collector region width is maximum when it:

- 1. collects maximum number of charge carrier

- Answers
- ✗ 1.
  - 2.
  - 3. Both 1 and 2 are correct
  - 4.

Question ID : 7368158254  
 Status : Answered  
 Chosen Option : 3

Q. 57

- Answers
- ✓ 1.
  - ✗ 2. 12
  - ✗ 3.
  - 4.

Question ID : 7368158219  
 Status : Answered  
 Chosen Option : 1

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?

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

Question ID : 7368158232

Status : Answered

Chosen Option : 4

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

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

Question ID : 7368158233

Status : Answered

Chosen Option : 4

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

- Ans
- 1. copper loss and hysteresis loss
  - 2.
  - 3.
  - 4. copper loss, eddy current loss and hysteresis loss

Question ID : 7368158228

Status : Answered

Chosen Option : 3

Q. 61

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

Question ID : 7368158187

Status : Answered

Chosen Option : 4

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

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

Question ID : 7368158194

Status : Answered

Chosen Option : 2

Q.  
63

Question ID : 7368158181  
Status : Answered  
Chosen Option : 4

Ans  1.

2.

3.

4.  $V_a = 15\text{ V}$ ,  $V_b = 13.3\text{ V}$

Q.  
64

Question ID : 7368158242  
Status : Answered  
Chosen Option : 1

Ans  1.

2. 480 rpm

3.

4. 500 rpm

Q. 65 The current in a circuit follows the relation  $i = 200\sin\omega t$ . 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.

2. 5.98 ms

3. 0.32 ms

4.

Q.  
66

Question ID : 7368158229  
Status : Answered  
Chosen Option : 4

Ans  1.

2.

विद्यमान ट्रांसफार्मर में निर्धारित श्रेणी से अधिक भार

3.

विद्यमान ट्रांसफार्मर में निर्धारित श्रेणी से बराबर भार

4.

Q.  
67

Question ID : 7368158190  
Status : Answered  
Chosen Option : 3

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

2. 6/9, 12/9, 18/9

3.

4.

Q. 68

Ans  1.

It should have high thermal automotive force

2.

It should carry current without excessive temperature rise

3.

4.

Question ID : 7368158205

Status : Answered

Chosen Option : 1

Q. 69

Ans 1. Only 2

2.

3.

4.

Question ID : 7368158225

Status : Answered

Chosen Option : 2

Q. 70

Ans 1.

2.

3.

4. Ge or GaAs

Question ID : 7368158252

Status : Answered

Chosen Option : 3

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

Ans  1.

2.

3. reverse biased

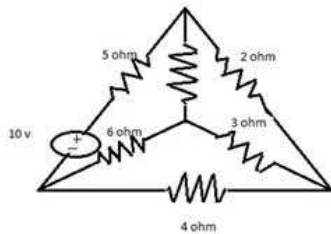
4.

Question ID : 7368158256

Status : Answered

Chosen Option : 2

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



Ans 1.

2. 3

3.

4. 1

Question ID : 7368158185

Status : Answered

Chosen Option : 1

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

- Ans
- 1.
  - 2.
  - 3.  $\Sigma$  power delivered =  $1/\Sigma$  power absorbed
  - 4.

Question ID : 7368158189  
 Status : Answered  
 Chosen Option : 1

Q. 74

- Ans
- 1.
  - 2.
  - 3.
  - A is correct and R is the suitable reason for it
  - 4.

Question ID : 7368158249  
 Status : Answered  
 Chosen Option : 2

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

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

Question ID : 7368158248  
 Status : Answered  
 Chosen Option : 2

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:

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

Question ID : 7368158260  
 Status : Answered  
 Chosen Option : 4

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.

- Ans
- 1.
  - 2.
  - 3.
  - 4.
- A is correct and R is the suitable reason for it

Question ID : 7368158236  
 Status : Answered  
 Chosen Option : 3

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

- Ans
- 1.
  - 2.
  - 3. 500 rad/sec
  - 4. 50 rad/sec

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

Q. 79

- Ans  1. 34.09 mV  
 2.  
 3.  
 4.

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

Q. 80

- Ans  1.  
 2. लकड़ी का पिसा हुआ कोयला  
 3.  
 4. कागजी राख

Question ID : 7368158220  
 Status : Answered  
 Chosen Option : 3

Section : General Knowledge

Q. 1

- Ans  1. Gulf of Mannar  
 2.  
 3.  
 4.

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.  
 2.  
 3.  
 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.  
 2.  
 3.  
 4. अर्ग (Ergs)

Question ID : 7368158268  
 Status : Answered  
 Chosen Option : 3

Q. 4 The Indian constitution came into force on:

- Ans  1. 26<sup>th</sup> Jan 1951  
 2.  
 3. 26<sup>th</sup> Jan 1950  
 4. 26<sup>th</sup> 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.  
 2. Bullet train

Question ID : 7368158267  
 Status : Answered  
 Chosen Option : 4

3.  
 4.

Q. 6

- Ans  1. हिंदुस्तान सोशलिस्ट रिपब्लिकन आर्मी  
 2. हिंदुस्तान सोशलिस्ट रेनेसां आर्मी  
 3.  
 4. हिंदुस्तान सोशलिस्ट रेबेल आर्मी

Question ID : 7368158262

Status : Answered

Chosen Option : 1

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

- Ans  1.  
 2.  
 3.  
 4.

Question ID : 7368158270

Status : Answered

Chosen Option : 4

Q. 8

- Ans  1.  
 2.  
 3.  
 4. फॉरेन एक्सचेंज रेग्युलेशन एक्ट

Question ID : 7368158264

Status : Answered

Chosen Option : 4

Q. 9

- Ans  1.  
 2.  
 3.  
 4. Manipur

Question ID : 7368158265

Status : Answered

Chosen Option : 1

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

- Ans  1.  
 2.  
 3.  
 4.

Question ID : 7368158263

Status : Answered

Chosen Option : 2

Section : Reasoning

Q. 1

Question ID : 7368158274  
Status : Answered  
Chosen Option : 4



s	अपर्याप्त आंकड़े	
	2.	
	3.	
	4.	
Q. 2		Question ID : 7368158273 Status : Answered Chosen Option : 1
Ans	1. विएना	
	<del>2.</del>	
	3.	
	4.	
Q. 3		Question ID : 7368158271 Status : Answered Chosen Option : 3
Ans	<del>1.</del>	
	<del>2.</del>	
	✓ 3. पुत्री	
	4. मौसी (Aunt)	
Q. 4		Question ID : 7368158278 Status : Answered Chosen Option : 1
Ans	✓ 1.	
	2.	
	<del>3.</del>	
	<del>4.</del> RAT	
Q. 5		Question ID : 7368158277 Status : Answered Chosen Option : 3
Ans	1.	
	<del>2.</del>	
	✓ 3.	
	4.	
Q. 6		Question ID : 7368158276 Status : Answered Chosen Option : 2
Ans	1.	
	✓ 2.	
	3.	
	<del>4.</del>	
Q.7		Question ID : 7368158272 Status : Answered Chosen Option : 2
Ans	1.	
	2.	
	3. (21, 34, 14)	

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

Ans  1.

2. a b b b b

3.

4.

Question ID : 7368158275

Status : Answered

Chosen Option : 2

Q. 9

Ans 1.

2.

3.

4.

Question ID : 7368158279

Status : Answered

Chosen Option : 4

Q. 10

Ans  1. 78

2.

3. 60

4.

Question ID : 7368158280

Status : Answered

Chosen Option : 1