## DFCCIL Junior Executive S \& T

(17-04-2016)

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| Candidate Name: |  |
| Candidate Roll |  |
| Number: |  |
| Test Center Name: |  |
| Subject: | Executive Signal and Telecommunication |
| Test Date: | 17/04/2016 |
| Shift: | Shift 2 |

Section Technical
Q. 1 A Zener diode voltage regulator has load requirement of 16 V and 2 Amp . The diode's minimum current requirement is 2.5 A . The minimum voltage at input is 29 V . What will be the maximum efficiency of the circuit?
Ans
X1. $78 \%$

- 2. $44.13 \%$

X 3. $23.99 \%$
X 4. $88.90 \%$
Q. 2 Find the Transfer function of the network given below.

Ans
v 1. $1 /(\mathrm{RC}(\mathrm{s})+1)$
X 2. $\mathrm{C}(\mathrm{s})$
X 3. $\mathrm{RC}(\mathrm{s})+1$
X 4. $\mathrm{RC}(\mathrm{s})-1$
Q. 3 Which one of the following satisfy the given condition?
$r(t)=R t$, for $t>=0$
$r(t)=0$, for $\mathrm{t}<0$
Ans
$X$ 1. Parabolic function
$X$ 2. Unit step function

- 3. Ramp function

X 4. Impulse function
Q. 4 A square matrix is real and symmetric. Its eigen values will be:

Ans
X 1. imaginary

- 2. real

X 3. complex
Q. 5 If [A] Matrix is Incidence matrix then which one of the following is true?

Ans $\times 1 \cdot[\mathrm{~A}]=1$ (For closed loop)
Question ID : 7368159392
Status: Answered
Chosen Option: 1
X 2. $|A|=1$ (For closed loop)
3. $|\mathrm{A}|=0$ (For closed loop)
4. $\operatorname{Adj}[\mathrm{A}] /|\mathrm{A}|=0$ (For closed loop)
Q. 6 In a decoder, if the input lines are 4 then number of maximum output lines will be:

Ans

1. 2
2. 16
3. 8
4. 4
Q. 7 Find out the equivalent of $A B+A^{\prime}+B^{\prime}$

Ans
$X$ 1.B
2. 1

Uuestion ID : 7368159402
Status: Answered
Chosen Option : 2
X 3. AB
X4. A
Q. 8 To reduce the distortion, which one of the following can be used?

Ans

1. Equalizer

Question ID : 7368159458
Status: Answered
Chosen Option : 1
$X$ 2. Sampler

$X$ 3. Multiplexer
$X$ 4. Companders
Q. 9 In the active region of a transistor Emitter-Base junction is $\qquad$ biased and Collector-Base junction is in $\qquad$ biased.
Ans $X_{1}$. forward, forward
Chosen Option : 4
$X$ 2. reverse, forward
$X$ 3. reverse, reverse
4. forward, reverse
Q. 10 Which one of the following can be used in the lighting system for power interruptions?

Ans

1. Diac
2. Triac
tus : Answered
3. SCR

X4. SCS
Q. 11 Which one of the following logic family has least propagation delay?

Ans

1. ECL
2. CMOS
$\times$ 3. BiCMOS
X 4. CMOS and BiCMOS
$X 2$ 2. index
$X$ 3. magnitude
$X$ 4. ramp function
Q. 13 A single phase full wave mid-point thyristor uses a $220 / 200 \mathrm{~V}$ transformer with central tap on the secondary side. The PIV per thyristor will be:
Ans

- 1. 282.84 V
$\times 2333.98 \mathrm{~V}$
X 3. 789.87 V
X 4.556 .34 V
Q. 14 A transistor has / have ___ layers of material.

Ans
$\times 1.2$
$\times 2.1$
Question ID : 7368159400
Status: Answered
Chosen Option: 3

- 3.3

X4.4
Q. 15 As the Common mode voltage gain decreases, the CMRR $\qquad$ .
Ans
$X$ 1. become 0
2. increases

Question ID : 7368159438
Status : Answered
Chosen Option : 2
$X$ 3. remains the same
$X$ 4. decreases
Q. 16 Which one of the following coefficient is associated with Unit Ramp function?

Ans
$X$ 1. Static stationary error coefficient

- 2. Static velocity error coefficient
$X$ 3. Static position error coefficient
$X$ 4. Static acceleration error coefficient
Q. 17 A unity feedback control system has an open loop transfer finction which is given as $G(s)$
$=\mathrm{K} /\{\mathrm{s}(\mathrm{s}+4)\}$. Find the angle of asymptotes.
Ans

1. $90^{\circ}, 270^{\circ}$

Question ID : 7368159415
Status: Answered
Chosen Option : 1
X2. $109^{\circ}, 34^{\circ}$
X $3.45^{\circ}, 115^{\circ}$
X $4.55^{\circ}, 56^{\circ}$
Q. 18 In network topology, the property between two graphs so that both have got same Incidence matrix is known as:
Ans $\times 1$. Tree Compliment
2. Isomorphism
$X$ 3. Polymorphism
4. Tree
Q. 19 Which one of the following is not true?

Ans
$X$ 1. Gradient. $D=\rho v$
2. $\mathrm{D}=\varepsilon \mathrm{E}$
3. $E=\operatorname{gradient}(E)$

X4. $\mathrm{E}=-$ gradient ( V )
Q. 20 Which one of the following can be considered as Recursive system?

Ans
$X 1 . \mathrm{s}(\mathrm{n})+\mathrm{s}(\mathrm{n}+1)$
X2. $\mathrm{s}(\mathrm{n}+2)$
X 3. $\mathrm{s}(\mathrm{n})$

- 4. $\mathrm{s}(\mathrm{n}-2)$
Q. 21 According to Cayley Hamilton Theorem, every $\qquad$ matrix satisfies its own characteristic equation.
Ans

1. square

Question ID : 7368159395
Status: Answered
Chosen Option: 1
2. functional
3. clear
4. asymmetrical
Q. 22 A input function in any transmission is said to be transmitted without distortion if the output signal $r(t)$ is defined as:
Ans
X 1. $r(t)=f(t-d)$
2. $\mathrm{r}(\mathrm{t})=\mathrm{Kf}(\mathrm{t}-\mathrm{d})$
3. $r(t)=f(t+d)$
4. $r(t)=1 / f(t-d)$
Q. 23 What will be the maximum power that can be distributed in the load in the given circuit?


Ans
-1. 0.377 W
X 2. 123 W
X 3. 9.88 W
X 4. 89 W
Q. 24 If all the elements in a circuit are carrying the equal amount of current then the elements are said to be in $\qquad$ connection.

Ans
X 1. parallel
2. series
$X$ 3. undefined path
X 4. closed
Q. 25 In a multiplexer, if there are 4 input lines and 1 output line, then number of selection lines will be:

Ans

1. 2
2. 3
(3. 0
$\times 4.1$
Q. 26 In a J -K flip flop, when $\mathrm{J}=1$ and $\mathrm{K}=1$ then it will be considered as:
$X$ 2. reset condition

- 3. toggle condition
$X 4$. set condition
Q. 27 If temperature will increase, the conductivity of semiconductor will:

Ans

1. increase
$X$ 2. remains the same
$X$ 3. decrease
$X$ 4. decrease rapidly
Q. 28 In the phase lead compensation network the phase of $\qquad$ leads the phase of


V 2. output voltage, input voltage
$X$ 3. input voltage, output voltage
$X$ 4. output voltage, output voltage
Q. 29 Which one of the following provides three output states?

Ans
$X$ 1. PLA
Question ID : 7368159450
Status: Answered
Chosen Option : 4
$X$ 2. Shifter
$X$ 3. Counter
4. Tri-state buffer
Q. 30 Which one of the following differential amplifier is used at the intermediate stage of an Operational Amplifier?

Ans

1. Dual input unbalanced output
$X$ 2. Single input unbalanced output
$X$ 3. single input balanced output
X4. Dual input balanced output
Q. 31 What will be the Time response expression for a Unit step function ( $1 / \mathrm{s}$ )?

Ans
X $1 . \mathrm{t}-\mathrm{T}+\mathrm{Te} \wedge(-\mathrm{t} / \mathrm{T})$
2. 1

Question ID : 7368159410

- 3. $1-\mathrm{e}^{\wedge}(\mathrm{t} / \mathrm{T})$

X4. $(1 / \mathrm{T}) \mathrm{e}^{\wedge}(-\mathrm{t} / \mathrm{T})$
Q. 32 What will be the $z$-transform of a Unit step function?

Ans
X 1. $u(t)=1 /(z-1)$

- 2. $u(t)=z /(z-1)$

X 3. $\mathrm{u}(\mathrm{t})=\mathrm{zT} /(\mathrm{z}-1)$
X 4. $u(t)=2 z /(z-1)$
Q. 33 According to Ampere's circuital Law The Line Integral of H about any closed path is exactly $\qquad$ to the direct current enclosed by that path.
, 2. equal
$X^{3.4} 4$ times
$X^{4}$. half
Q. 34 In $\qquad$ flip-flops.

Ans

- 1. ripple counter
$\times$ 2. parallel adder
$X_{3}$ shift register
$X$ 4. serial adder
Q. 35 If Polarization vector is given as N and Direction of propagation is given as K then which one of the following relation is correct?

Ans
, 1. $\mathrm{N} . \mathrm{K}=0$
X2. $\mathrm{N} \times \mathrm{K}=1$
$x^{3}$. ${ }^{2}$
X4. $\mathrm{N}=-\mathrm{K}$
Q. 36 According to the tumeling phenomenon of tumel diode which one of the following is true?

Ans
Width of the junction barrier varies inversely as the square root of impurity concentration.

Question ID : 7368159399
Status: Answered
Chosen Option: 1 $\times 2$
Width of the junction barrier varies as the cube root of impurity concentration.
$\times 3$.
Width of the junction barrier varies as the impurity concentration.
>4.
Width of the junction barrier varies as the square root of impurity concentration.
Q. 37 Which one of the following logic family comprises of BJTs?

Ans
X 1. FET
2. TTL

X 3. cmOs
X 4. NMOs
Q. 38 We can achieve a Darlington Connection by connecting the $\qquad$ .

Ans
$X$ 1. base of both the transistors
(2. emitter of both the transistors
$\times{ }^{3}$
ground with emitter and base of both the transistor

- 4. collector of both the transistors
Q.39 A second order control system has a damping ratio as 0.6 and natural frequency of oscillations as $11 \mathrm{rad} / \mathrm{sec}$. What will be the Damped frequency of oscillation?

Ans

2. $6.9 \mathrm{rad} / \mathrm{sec}$
3. $5.6 \mathrm{rad} / \mathrm{sec}$
4. $8.8 \mathrm{rad} / \mathrm{sec}$

What will be the transfer function for the system given by the following $\qquad$
differential equation?

$$
A \frac{d^{2} y}{d t^{2}}+B \frac{d y}{d t}+C y=P x+Q \frac{d x}{d t}
$$

Ans

1. $\mathrm{P}+\mathrm{Qs} / \mathrm{As}^{2}+\mathrm{Bs}+\mathrm{C}$

X 2. Q/Bs +C
X 3. $\mathrm{P} / \mathrm{As}^{2}+\mathrm{Bs}+\mathrm{C}$
X 4. $\mathrm{As}^{2}+\mathrm{Bs}+\mathrm{C} / \mathrm{P}+\mathrm{Qs}$
Q. 41 In Varactor Diode, if reverse voltage will increase space charge width:

Ans
$X$ 1. decreases rapidly
2. increases
3. remains the same
4. decreases
Q. 42 Find the distance from $C$ to $D$ if the coordinates are given as $C(-3,2,1)$ and $D(r=5, \theta$ $=20^{\circ}, \Phi=-70^{\circ}$ ).
Ans

1. 6.29 unit
2. 7.90 unit

Status: Not Attempted and Mark ed For Review
Chosen Option :-
X 3. 9.07 unit
X 4. 5.99 unit
Q. 43 A Dual slope $A D C$ has $C=0.34$ nanofarad and $R=1 \mathrm{~K} \Omega$ has charging and discharging time for some voltage of 12 ns and 9 ns respectively. The reference voltage is 2.5 V . What will be the peak voltage reached by triangular wave during charging?
Ans

1. 0.0367 V
2. 0.2347 V
(3. 7.0004 V
3. 6.0984 V
Q. 44 If the damping ratio $\zeta$ is equal to 0 then what will be the maximum overshoot?

Ans

X 1. $0.001 \%$
2. $100 \%$

Question ID : 7368159424
Status: Answered
Chosen Option : 2
3. $25 \%$
4. $50 \%$
Q. 45 In analog communication, A unit impulse response of a causal system is $\qquad$ for $1<0$.
Ans


Question ID : 7368159456

X 2. -1
3. infinite
4. 1
Q. 46 What will be the transfer function of the given block diagram?


Ans

X1. $(\mathrm{G} 1 \mathrm{G} 2+\mathrm{G} 1 \mathrm{G} 3) /(1-\mathrm{G} 1 \mathrm{G} 2 \mathrm{H}+\mathrm{G} 2+\mathrm{G} 3)$
$\checkmark$ 2.
X 3. $(\mathrm{G} 1 \mathrm{G} 2-\mathrm{G} 1 \mathrm{G} 3) /(1-\mathrm{G} 1 \mathrm{G} 2 \mathrm{H}-\mathrm{G} 2+\mathrm{G} 3)$
X 4. $(\mathrm{G} 1+\mathrm{G} 3) /(1+\mathrm{G} 1 \mathrm{G} 2 \mathrm{H}+\mathrm{G} 2+\mathrm{G} 3)$
Q. 47 For the modern Alternators, the typical value of SCR will be:

Ans
X 1.0 .8
2. 0.5

Question ID : 7368159433
Status: Not Attempted and Mark ed For Review

Chosen Option :-
3. 0
4. 1
Q. 48 The primary reason behind identically zero magnetic field outside a coaxial cable is:

Ans
$X$ 1. Maximization of Magnetic lines of force
$\times 2$
Question ID : 7368159427
Status: Answered
Chosen Option : 2
Work done along a closed path is equal to total current flow
3. Magnetic Polarization
4. Force between magnetic elements
Q. 49 Identify the following sequential component.


Question ID : 7368159448
Status: Answered

X 1. J-K flip flop
X 2. Clocked flip flop
X 3. Master-slave flip flop

- 4. R-S flip flop
0.50

Ans
$X$ 1. AND
X 2. NOT
$\checkmark$. OR
X 4. Ex-OR

## Q. 51

Ans
X 1. D/A Converter
2. Sampler
$X$ 3. Coupler
X4. A/D Converter

The Following diagram denotes the $\qquad$ function.


Ans
X 1. impulse
X 2. parabolic

- 3. unit step

X4. ramp
Q. 53 If Thevenin's voltage is 89.3 volts and Thevenin's resistance is 46.98 ohms then what will be the maximum power delivered to the load present in the network?
Ans
X 1. 88.09 W

- 2. 42.43 W

Question ID : 7368159393
Status: Not Attempted and Mark ed For Review
Chosen Option :-
X 3. 100 W
X4. 456 W
Q. 54 What will be the one cycle surge current of a SCR if it has half cycle surge current rating of 5000 A for 50 Hz supply?
Ans
X 1.2345 .89 A
X 2. 3456.09 A

- 3. 3535.53 A

X 4.1232 .66 A
Q. 55 What will be the value of Va in the given circuit?


Question ID : 7368159390 Status: Answered

Chosen Option : 2

Ans
X 1.89 V

- 2. 142.8 V

X 3.77 V
X 4. 100 V
Q. 56 The algebric sum of the voltages around any closed path is equal to:

Ans
$X$ 1. Infinite
$\times 2.1$
$X$ 3. Indefinite
-4. 0
Q. 57 A square matrix is called a skew-symmetric matrix when:

Ans
$X 1$. its transpose is an identity matrix
$\times 2$ its transpose is square of itself
$X$ 3. its transpose is equal to itself
4. its transpose is negative of itself
Q. 58 The (Id-Vgs) characteristics of a MOSFET in the saturation region is:

Ans

1. quadratic
2. exponential

Question ID : 7368159403
Status: Marked For Review
Chosen Option: $\mathbf{3}$
3. logarithmic
4. hyperbolic
Q.59 A single phase one pulse controlled circuit has a resistance and counter emf load $200 \sin (512 \mathrm{t})$ as the source voltage for a load counter emf of 100 V , the range of firing angle control will be:

Ans

1. $30^{\circ}$ to $110^{\circ}$
2. $0^{\circ}$ to $30^{\circ}$
3. $120^{\circ}$ to $150^{\circ}$
4. $30^{\circ}$ to $150^{\circ}$
Q. 60 What will be the Impulse Laplace transform for $f(t)=e^{\wedge}(-b t)$ ?

Ans
X 1. $F^{*}(s)=T /\left[1-e^{\wedge}(-b t) e^{\wedge}(-s T)\right]$
2. $F^{*}(s)=s T /\left[1-e^{\wedge}(-b t) e^{\wedge}(-s T)\right]$

X 3. $F^{*}(s)=s /\left[1-e^{\wedge}(-b t) e^{\wedge}(-s T)\right]$
4. $\mathrm{F}^{*}(\mathrm{~s})=1 /\left[1-\mathrm{e}^{\wedge}(-\mathrm{bt}) \mathrm{e}^{\wedge}(-\mathrm{sT})\right]$
2. Insulator
$X$ 2. Predictable Logical Array
$X$ 3. Parabolic Logic Array
4. Programmable Logic Array
Q. 63 In TIL family, the Totem-pole circuit on the output is used to provide $\qquad$

| Question ID : 7368159452 |
| :---: |
| Status: Answered |
| Chosen Option: 1 |

2. inactive output state
$X$ 3. active pull down
$X$ 4. active pull up
Q. 64 ASK stands for:

Ans

1. Amplitude Shift Keying
2. Amplification Shift Keying
$X$ 3. Amplitude Shuffle Keying
$X$ 4. Altitude Shuffle Keying
Q. 65 If the Natural frequency of oscillation $\omega n=13 \mathrm{rad} / \mathrm{sec}$ and damping ratio $\zeta$ is 0.8 then find the peak time.
Ans
$X 1.3 \mathrm{sec}$
$\times 2.0 .002 \mathrm{sec}$
3. 0.4 sec
$\times 4.12 \mathrm{sec}$
Q. 66 What will be the biasing of $D(a)$ and $D(b)$ in the given circuit?


Question ID: 7368159453
Status: Answered
Chosen Option: $\mathbf{3}$

1. $\mathrm{D}(\mathrm{a})$ reverse, $\mathrm{D}(\mathrm{b})$ forward
$X 2 . \mathrm{D}(\mathrm{a})$ reverse, $\mathrm{D}(\mathrm{b})$ reverse

- 3. $\mathrm{D}(\mathrm{a})$ forward, $\mathrm{D}(\mathrm{b})$ reverse

X 4. D (a) forward, $\mathrm{D}(\mathrm{b})$ forward
Q. 67 What will be the value of Y in the give digital circuit?

Question ID : 7368159441
Status: Answered
Chosen Option: $\mathbf{4}$

Ans
X $1 . a+b+c$
2. $a+b+c^{\prime}$
$\times 3$ abc

- 4. $a^{\prime} c^{\prime}$
Q. 68 In FM, "M" stands for:

Ans
X 1. Multiplication
2. Modulation
$X$ 3. Modulate
X 4. Multilevel
Q. 69 A coin is tossed 4 times. The probability of getting heads exactly 3 times will be:

Ans $\times 1.0 .75$
2. 0.33

- 3. 0.25

X4. 0.5

A closed loop control system has a characteristic equation given by $\mathrm{s}^{3}+2.4 \mathrm{~s}^{2}+1.8 \mathrm{~s}+0.5=0$.
Find out the value of $a, b, c$ and $d$ using Routh Herwitz criterion.


Ans
X 1. $a=4, b=0, c=9, d=0.7$

- 2. $\mathrm{a}=1.59, \mathrm{~b}=0.5, \mathrm{c}=0, \mathrm{~d}=0$

X 3. $a=0, b=0, c=0, d=0$
X 4. $a=2, b=0.5, c=0, d=1.3$
Q. 71 An event has 4 possible outcomes with probabilities $1 / 2,1 / 4,1 / 8,1 / 16$. What will be the rate of information if there are approximately 24 outcomes/second possible?

Ans
X 1. $3 \mathrm{bits} / \mathrm{sec}$
2. $11 \mathrm{bits} / \mathrm{sec}$

Question ID : 7368159460
Status:Answered
Chosen Option: 2
3. $78 \mathrm{bits} / \mathrm{sec}$

X 4.6 bits/sec
Q. 72 Which of the following is related with Stoke's Theorem?

Ans
$X$ 1. A line integral and a volume integral
Question ID : 7368159384
Status : Answered
2. A surface integral and a volume integral
3. A line integral and a surface integral
$\times 4$.
A line integral, a surface integral and a volume integral
Q. 73 Which one of the following gate is also known as equivalence gate?

Ans
$X 1$ NOR
2. AND

Question ID : 7368159442
Status: Answered
3. Ex-OR
4. Ex-NOR
Q. 74 The overall transfer function of a control system is given by the following equation. Find out the value of Derivative rate feedback constant Kt . (Consider the Damping ratio 0.9)

$$
\frac{C(s)}{R(s)}=\frac{36}{s^{2}+3.6 s+36}
$$

Ans
-1. 0.2
$\times 2.0 .707$
$\times 3.1$
X 4.0 .16
Q. 75 There are two curves in a graph. One is $y=x^{2}$ and the other is $y=x$. Find the area enclosed between these curves.
Ans

- 1. $1 / 6$ unit

X ${ }^{2} .1 / 16$ unit
$X$ 3. 1 unit
X 4. 1/2 unit

What will be the Potential at node P?


Ans
$\times 1.34 .78 \mathrm{~V}$
X2. 100 V

- 3. 21.44 V

X4.87.56 V
Q. 77 What will be the poles of transfer functions $\mathrm{G}(\mathrm{s})=\mathrm{s} / \mathrm{s}(\mathrm{s}+2)$ ?

Ans

1. $0,-2$
2. $2,-2$

Question ID : 7368159422
Status : Answered
Chosen Option: 1
X $3.0,2$
$\times 4.0,0$
Q. 78 An energy signal has $S(f)=19$. What will be the energy density spectrum?

Ans

1. 361

Question ID : 7368159394 Status: Answered
2. 38 Chosen Option: 1
$\times 3.81$
$\times 4.19$
Q. 79 What will be the simplified Boolean function of the given equation?
$F(\mathrm{a}, \mathrm{b}, \mathrm{c})=\Sigma(0,2,4,5,6)$
Ans
X 1. $\mathrm{ac}^{\prime}+\mathrm{b}$
Question ID : 7368159443 Status: Answered
Chosen Option : 2

- 2. $c^{\prime}+a b^{\prime}$
$X^{3} \cdot \mathrm{a}+\mathrm{b}+\mathrm{c}$
人4. $a^{\prime} b+c$
Q. 80 Identify the given symbol.


Ans
$X$ 1. Sidac
2. Triac
$X^{3}$. Diac
$X$ 4. Photo thyristor

Section General Knowledge
Q. 1 First official census in India was conducted in the year

Ans
X1. 1910
2. 1871
Q. 2 Which Indian state has a separate constitution?

Question ID : 7368159465
Status: Marked For Review
2. Jammu \& Kashmir
$\qquad$
3. Madhya Pradesh
4. Tamil Nadu
Q. 3 What is the full form of HSRA a group which was founded in 1928 of which Bhagat Singh
is a member?
Ans

1. Hindustan Socialist Republican army

Question ID : 7368159462
Status: Marked For Review
Chosen Option : 1
2. Hindustan Socialist Rebel Army
3. Hindustan Socialist Revolutionary Army
4. Hindustan Socialist Renaissance Army
Q. 4 Param Yuva II, designed by C-DAC in PUNE is a type of $\qquad$ Question ID : 7368159467 Status: Answered Chosen Option : 2

- 2. Super computer
$X$ 3. Bullet train

4. Missile
Q. 5 Which of the following is not a unit used for measuring Energy?

Ans

1. Joules
2. Ergs
3. Calories
4. Fathoms
Q. 6 Who received K.Veermani Social Justice Award for the year 2016?

Ans

1. Nitish Kumar
2. Akhilesh Yadav
3. K. Chandra Sekhar Rao
4. Chandrababu Naidu
Q. 7 The Indian constitution came into force on:

Ans $\times 1.26^{\text {th }}$ Jan 1951
2. $26^{\text {th }}$ Jan 1949
3. $26^{\text {th }} \mathrm{Jan} 1950$
4. $26^{\text {th }}$ Jan 1955
Q. 8 The full form of FERA, a term related to Foreign Exchange is:

Ans
$X$ 1. Foreign Exchange Restriction Act
2. Foreign Exchange Regulation Act
3. Foreign Exchange Remuneration Act
4. Foreign Exchange Reimbursement Act

Ans

1. Gulf of Mannar

X 2. Gulf of Kuch
$X$ 3. Gulf of Sinhala
X 4. Gulf of Gibralter
Q. 10 Who won the title of Australian open temnis toumament in women's singles category in $2016 ?$

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

Section Reasoning
Q. 1 Mr. C is sitting on ninth chair from the left end facing North and Seventeenth from the right end. Then total number of chairs in a row are:

Ans
X1. 26 chairs
Question ID : 7368159476
Status: Answered
$X$ 2. 23 chairs
$X$ 3. 40 chairs
4. 25 chairs
Q. 2 If $X$ is the maternal aunt of $Q$, who is the son of $Z$, and $Z$ is the son-in-law of $E$, then how is X related to E ?
Ans

1. Daughter

X 2. Mother
3. Aunt

X 4. Sister
Q. 3 Select from the given choices the letter sequence that completes the following sequence in an order.
${ }^{a} a_{-}{ }^{b}{ }^{a} a^{a} \quad$ ab
Ans

1. abbbb

X2 ${ }^{2}$ aabbb
X3. abab
X4. bbaa
Q. 4 If GUN is coded as HVO, then IBU is coded as:

Ans
$X$ 1. HEN
Question ID : 7368159478
$X$ 2. NOT
-3. HAT
X 4. RAT
Q. $5 A$ and $B$ started from a fixed place. $A$ moves towards North and after walking 3 km turns to his right and covers $4 \mathrm{~km} . B$ moves towards West and Walks 5 km and then turns to his right and walks 3 km . Now how far $A$ and $B$ are from each other?
Ans

1. 9 km

X2. 5 km
X 3.4 km
X 4.8 km
Q. 6 Identify the similar set of numbers.
$(64,81,144)$
Ans
X1. $(789,491,68)$
X 2. $(464,467,4840)$
X3. $(21,34,14)$
จ 4. $(256,324,361)$
Q. 7 Determine the pattern and fill in the missing number.
$3,8,18,38$, $\qquad$ , 158

Question ID : 7368159480
Status: Answered

Ans

1. 78
$\times 2.65$
X 3.60
$\times 4.67$
Q. 8 In a certain code, KNOWLEDGE is coded as 256535475 , how is GENERAL coded in that code?

Ans

1. 7555913
2. 7545993
3. 7969393
4. 7555931

Question ID : 7368159477
Status: Answered
Chosen Option: 1

Status: Answered
Chosen Option : 1
$X$ 2. Athens
3. Vienna
4. Lisbon
Q. 10 Four brothers R, S, M and G are at their annual family property fight sitting across a circular table. Their occupations are - author, biologist, chemist and doctor, but not necessarily in that order: G starts by setting the agenda of the meeting and after him the doctor gives a long discourse of what is right and what is wrong. R is sitting across the doctor and next to the chemist. $M$ is silent throughout the meeting and the chemist speaks only at the very end.

The profession of R is:
Ans
$X$ 1. Biologist
X 2. Author
3. Inadequate data

X 4. Doctor

## * gradeup SUPER

