Question Paper with Final (Revised) Answer Key for the Post of	**Assistant Engineer (Executive Trainee - Electrical) in HPPCL**	**held on 12-12-2021**

Itemcode : **EU1001**

Q1: A line of length l has characteristic impedance Z_o. The line is cut into half. The value of characteristic impedance becomes

A	Z_o
B	$Z_o/2$
C	$2Z_o$
D	$Z_o/4$

Correct Ans: **A**

Itemcode : **EU1002**

Q2: The direction of vector A is radially outward from the origin, with $\|A\|=kr^n$ where $r^2=x^2+y^2+z^2$ and k is a constant. The value of n for which $\nabla.A=0$ is

A	-2
B	0
C	1
D	2

Correct Ans: **A**

Itemcode : **EU1003**

Q3: An electromagnetic field is radiated from

A	a stationary point charge
B	a capacitor with a DC voltage
C	a conductor carrying a DC current
D	an oscillating dipole

Correct Ans: **D**

Itemcode : **EU1004**

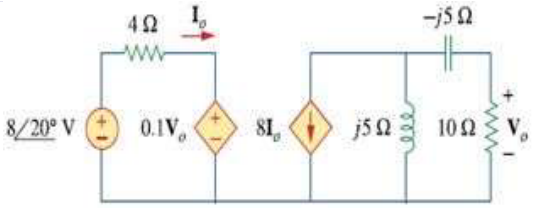
Q4: The flux density at a point in space is given by $B=4xa_x+ 2kya_y+8a_z wb/m^2$. The value of constant k must be equal to

A	-2
B	0.5
C	1
D	2

Correct Ans: **A**

Itemcode : **EU1005**

Q5: Find the average power absorbed by the 10 Ω resistor in the following circuit.

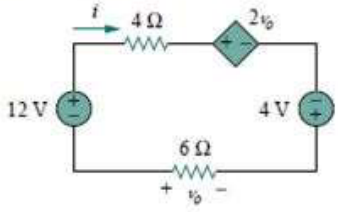


A	16 W
B	106 W
C	160 W
D	601 W

Correct Ans: **C**

Itemcode : **EU1006**

Q6: Determine v_o and i in the following circuit.

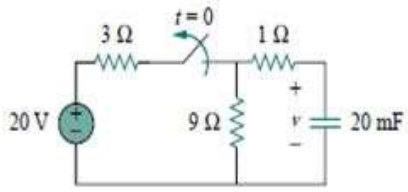


A	48 V,-8A
B	4.8V,-8A
C	14.8 V, 8A
D	1.48 V, 8A

Correct Ans: **A**

Itemcode : **EU1007**

Q7: The switch in the circuit as shown in following fig has been closed for a long time, and it is opened at t=0. Calculate the initial energy stored in the capacitor.



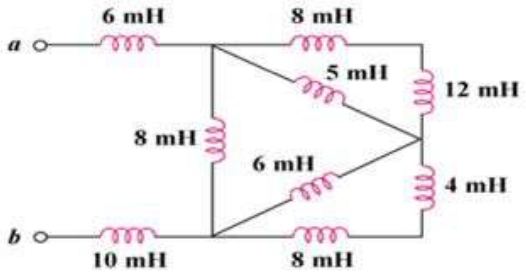
A	2.25J
B	22.5J
C	25.2J
D	52.2J

Correct Ans: **A**

Itemcode : **EU1008**

Q8:

Find L_{eq} at the terminals a and b of the following circuit.



A	28 mH
B	2 mH
C	25 mH
D	20 mH

Correct Ans: **D**

Itemcode : **EU1009**

Q9: A passive 2-port network is in a steady-state. Compared to its input, the steady state output can never offer

A	better regulation
B	greater power
C	low impedance
D	higher voltage

Correct Ans: **B**

Itemcode : **EU1010**

Q10: A 0.1μF capacitor charged to 100 V, is discharged through a 1kΩ resistor. How much time is required for the voltage across the capacitor to drop to 1V?

A	4.6 ms
B	0.46 ms
C	6.4 ms
D	46 ms

Correct Ans: **B**

Itemcode : **EU1011**

Q11: Two conductors of a transmission line carry equal current I in opposite directions. The force on each conductor is proportional to

A	I
B	I^2
C	the distance between conductors
D	square of the distance between conductors

Correct Ans: **B**

Itemcode : **EU1012**

Q12: Fermion particles obey

A	Maxwell-Boltzmann statistics
B	Bose-Einstein statistics
C	Pauli's exclusion principle
D	Heisenberg's uncertainty principle

Correct Ans: **C**

Itemcode : **EU1013**

Q13: Image theory is applicable to problems involving

A	electrostatic field only
B	magneto-static field only
C	both electrostatic and magneto-static fields
D	neither electrostatic and magneto-static field

Correct Ans: **C**

Itemcode : **EU1014**

Q14: In a network made up of linear resisters and ideal voltage sources, values of all resistors are doubled. Then the voltage across each resistor is

A	doubled
B	halved
C	decreases four times
D	not changed

Correct Ans: **D**

Itemcode : **EU1015**

Q15: Susceptibility of a diamagnetic material is

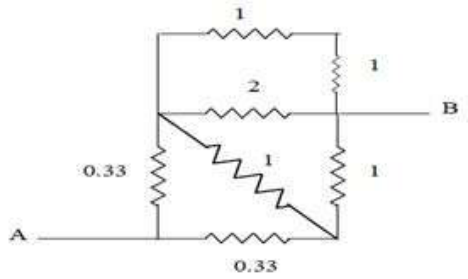
1. Negative
2. Positive
3. dependent on the temperature
4. independent on the temperature

A	1 and 3
B	2 and 3
C	2 and 4
D	1 and 4

Correct Ans: **D**

Itemcode : **EU1016**

Q16: Find the equivalent resistance between terminals A-B in the following fig.

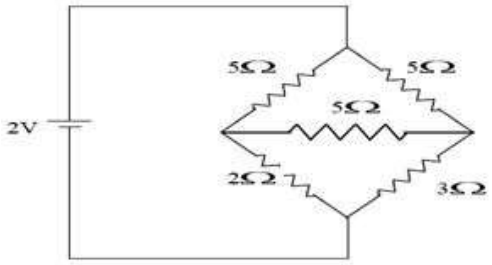


A	0.5Ω
B	0.7 Ω
C	1Ω
D	2Ω

Correct Ans: **B**

Itemcode : **EU1017**

Q17: Find the source current in the following circuit.

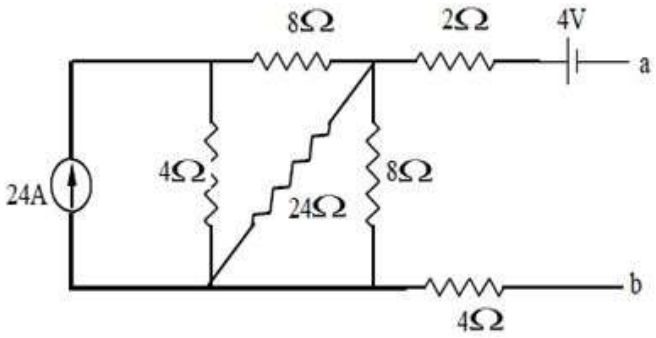


A	0.5A
B	0.7 A
C	1A
D	0.8 A

Correct Ans: **A**

Itemcode : **EU1018**

Q18: Find the Thevenin voltage across a-b of the following circuit.



A	10V
B	12V

C	82 V
D	28 V
Correct Ans: **D**	

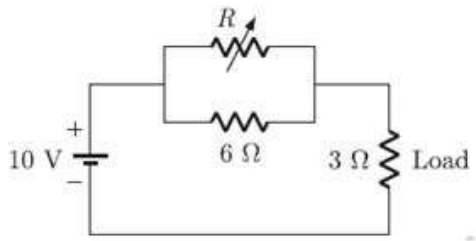
Itemcode : **EU1019**

Q19: Calculate the R.M.S value of a periodic voltage which changes in steps at equal intervals of the times as follows (0,5,10,20,50,60,50,20,10,5,0,-5,-10,.....)

A	10V
B	12V
C	31 V
D	28 V
Correct Ans: **C**	

Itemcode : **EU1020**

Q20: In the circuit given below, the value of *R* required for the transfer of maximum power to the load having a resistance of 3 W is



A	3Ω
B	6Ω
C	0Ω
D	4.5Ω
Correct Ans: **C**	

Itemcode : **EU1021**

Q21: A control system working under unknown random actions is called

A	Computer control system
B	Digital data system
C	Stochastic control system
D	Adaptive control system
Correct Ans: **C**	

Itemcode : **EU1022**

Q22: The Bode diagram approach is the most commonly used method for the analysis and synthesis of

A	Non-linear feedback control system only
B	Open-loop system only

C	Linear feedback system only
D	All of the above
Correct Ans: **C**	

Itemcode : **EU1023**

Q23: If the Nyquist plot cuts the negative real axis at a distance of 0.25, then gain margin and phase margin of the system will be respectively

A	0.25 and 0°
B	4.0 and -180°
C	-0.25 and 180°
D	4.0 and 0°
Correct Ans: **D**	

Itemcode : **EU1024**

Q24: Which of the following is the best method for determining the stability and transient response?

A	Root locus
B	Bode plot
C	Nyquist plot
D	R H criterion
Correct Ans: **A**	

Itemcode : **EU1025**

Q25: The number of roots of the equation $2S^4+S^3+3S^2+5S+7=0$ that lie in the right half of s plane is;

A	0
B	2
C	3
D	1
Correct Ans: **B**	

Itemcode : **EU1026**

Q26: The gain margin of a unity feedback control system with the open loop transfer function $G(s) = (s+1)/s^2$ is

A	0
B	1/2
C	2
D	∞
Correct Ans: **D**	

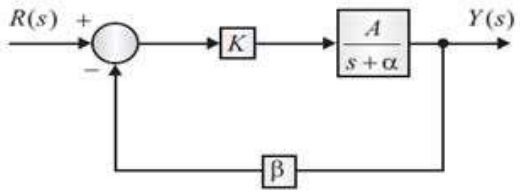
Itemcode : **EU1027**

Q27: Despite the presence of negative feedback, control systems still have problems of instability because the

A	Components used have non-linearity.
B	Dynamic equations of the subsystems are not known exactly.
C	Mathematical analysis involves approximations.
D	System has large negative phase angle at high frequencies.
Correct Ans: **A**	

Itemcode : **EU1028**

Q28: For the system given below, the feedback does not reduce the closed-loop sensitivity due to variation of which one of the following?



A	K
B	A
C	$K\alpha$
D	β
Correct Ans: **C**	

Itemcode : **EU1029**

Q29: Consider the following statements regarding advantages of closed loop negative feedback control systems over open loop systems.

1. The overall reliability of the closed loop system is more than that of open loop system.
2. The transient response in a closed loop system decays more quickly than in open loop system.
3. In an open loop system, closing of the loop increases the overall gain of the system.
4. In the closed loop system, the effect of variation of component parameters on its performance is reduced.

Which of these statements are correct?

A	1 and 2
B	1 and 3
C	2 and 4
D	3 and 4
Correct Ans: **A**	

Itemcode : **EU1030**

Q30: The unit impulse response of a system given as $c(t)=-4e^{-t}+6e^{-2t}$. The step response of the same system for $t \geq 0$ equal to

A	$3e^{-2t}+4e^{-t}+1$
B	$-3e^{-2t}+4e^{-t}+1$

C	$-3e^{-2t}+4e^{-t}-1$
D	$3e^{-2t}-4e^{-t}+1$

Correct Ans: **C**

Itemcode : **EU1031**

Q31: Consider the following systems

System 1: G(s) =1 / (2s+1)

System 2: G(s) =1 / (5s+1)

The true statement regarding the system is

A	Bandwidth of system 1 is greater than the bandwidth of system 2
B	Bandwidth of system 1 is lower than the bandwidth of system 2
C	Bandwidth of both the systems is the same
D	Bandwidth of both systems is infinite

Correct Ans: **A**

Itemcode : **EU1032**

Q32: The root locus of the feedback control system having the characteristic equation $s^2+6Ks+2s+5=0$

Where K>0, enters into the real axis at

A	S=-1
B	S=-√5
C	S=√5
D	S=-5

Correct Ans: **B**

Itemcode : **EU1033**

Q33: The lag system of a 'lag-lead compensator' has one pole and one zero. Then pole and zero are

A	real and pole is to the left of zero
B	real and pole is to the right of zero
C	imaginary and pole is above zero
D	imaginary and pole is below zero

Correct Ans: **B**

Itemcode : **EU1034**

Q34: What is the effect of lag compensator on the system bandwidth (BW) and the signal to noise ratio (SNR)?

A	BW is reduced and SNR is improved
B	BW is reduced and SNR is deteriorated
C	BW is increased and SNR is improved

D	BW is increased and SNR is deteriorated

Correct Ans: **A**

Itemcode : **EU1035**

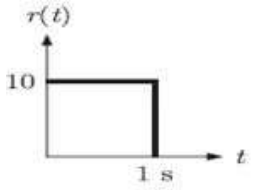
Q35: The phase lead compensations used to

A	increase rise time and decrease overshoot
B	decrease both rise time and overshoot
C	increase both rise time and overshoot
D	decrease rise time and increase overshoot

Correct Ans: **B**

Itemcode : **EU1036**

Q36: The steady state error of a unity feedback linear system for a unit step input is 0.1. The steady state error of the same system, for a pulse input *r(t)* having a magnitude of 10 and a duration of one second, as shown in the figure is



A	0
B	0.1
C	1
D	10

Correct Ans: **A**

Itemcode : **EU1037**

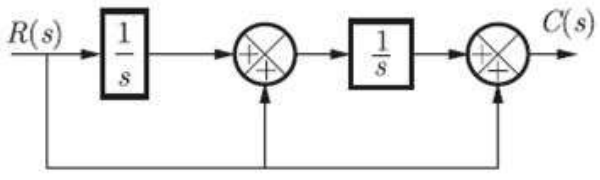
Q37: For the equation, $s^3 - 4s^2 + s + 6 = 0$ the number of roots in the left half of *s* plane will be

A	Zero
B	One
C	Two
D	Three

Correct Ans: **B**

Itemcode : **EU1038**

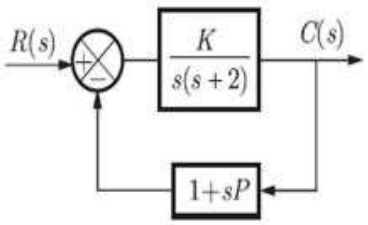
Q38: For the block diagram shown in figure, the transfer function C(s)/R(s) is equal to



A	$(S^2+1)/S$
B	$(S^2+S+1)/S$
C	$(S^2+S+1)/S^2$
D	$1/(S^2+S+1)$
Correct Ans: **C**	

Itemcode : **EU1039**

Q39: The block diagram of a closed loop control system is given by figure. The values of K and P such that the system has a damping ratio of 0.7 and an undamped natural frequency w_n of 5 rad/sec, are respectively equal to



A	20 and 0.3
B	20 and 0.2
C	25 and 0.3
D	25 and 0.2
Correct Ans: **D**	

Itemcode : **EU1040**

Q40: The transfer function of a system is given as

$100/ (S^2+20S+100)$

The system is

A	An over damped system
B	An under damped system
C	A critically damped system
D	An unstable system
Correct Ans: **C**	

Itemcode : **EU1041**

Q41: A three phase three wire ABC system with a balanced load has an effective line voltage 200V and (peak) line current of 13.61 A with a phase PF angle of 30 degrees. The total active power is given below

A	4083 W
B	4038 W
C	2887 W

D	2878 W

Correct Ans: **C**

Itemcode : **EU1042**

Q42: A single-phase transformer has 2000 turns on the primary and 800 turns on the secondary. Its no-load current is 5 A at a power factor of 0.20 lagging. Assuming the volt drop in the windings is negligible. Determine the primary current in ampere when the secondary current is 100 A at a power factor of 0.85 lagging.

A	43.6
B	46.3
C	36.4
D	64.3

Correct Ans: **A**

Itemcode : **EU1043**

Q43: Two single phase 11000/440V transformers having ratings of 200 kVA and 100 kVA respectively are operated in parallel. The equivalent resistance and reactance of the 200 kVA transformer when referred to the 11 kV side are 1 and 5 Ω respectively. The equivalent reactance of the 100 kVA transformer refereed to the 11 kV side is 9Ω. What should be the equivalent resistance of the 100kVA transformer, if each transformer has to share a commonly connected load in proportion to its kVA rating?

A	4.36 Ω
B	0.436 Ω
C	3.64 Ω
D	6.34 Ω

Correct Ans: **A**

Itemcode : **EU1044**

Q44: In Y - Y connection of 3 phase transformer, the phase angle between the phase voltages and line voltages on both primary and secondary side is

A	0 degree
B	30 degree
C	60 degree
D	120 degree

Correct Ans: **B**

Itemcode : **EU1045**

Q45: Considering two 4 pole DC machines of identical armature, one is lap wound and the other is wave wound. Then the machine with more generated voltage will be,

A	Lap wound machine
B	Wave wound machine
C	Both have equal generated voltages
D	Both have less generated voltages

Correct Ans: **B**

Itemcode : **EU1046**

Q46: A shunt machine connected to 250 V mains has an armature resistance (including brushes) of 0.12 Ω, and the resistance of the field circuit is 100 Ω. Find the ratio of the speed as a generator to the speed as a motor, the line current in each case being 80 A.

A	1.08
B	0.85
C	0.9
D	0.95

Correct Ans: **A**

Itemcode : **EU1047**

Q47: A 20 hp, 4 pole, 50 Hz, three phase induction motor has friction and windage loss of 3% of the output. The machine is working at full load with a full load slip of 4 percent. The output torque of the machine will be,

A	95.3 N-m
B	73.6 N-m
C	90.4 N-m
D	98 N-m

Correct Ans: **D**

Itemcode : **EU1048**

Q48: Which type of rotor is generally used for turbo alternators?

A	Smooth cylindrical type
B	Salient pole type
C	Projected pole type
D	Slip Ring pole type

Correct Ans: **A**

Itemcode : **EU1049**

Q49: A three phase, 50 Hz, 6 pole, star connected alternator has flux per pole of 0.15 web. The stator winding has 8 conductors per slot and a coil span of 8 slots is used to eliminate fifth harmonic completely. The distribution factor will be

A	0.9
B	0.759
C	0.875
D	0.957

Correct Ans: **D**

Itemcode : **EU1050**

Q50: An 8 pole alternator runs at 750 rpm. It supplies power to a 6 pole induction motor which has a full load slip of 3%. The full load speed of the motor is

A	750 rpm

B	850 rpm
C	970 rpm
D	960 rpm

Correct Ans: **C**

Itemcode : **EU1051**

Q51: In an induction motor with certain ratio of rotor to stator slots, runs at 1/7th of the normal speed, the phenomenon will be termed as

A	humming
B	hunting
C	cogging
D	crawling

Correct Ans: **D**

Itemcode : **EU1052**

Q52: The starting torque developed by a single-phase induction motor fitted only with the main winding is

A	Less than the rated torque
B	More than the rated torque
C	Zero
D	Equal to the rated torque

Correct Ans: **C**

Itemcode : **EU1053**

Q53: A shaded pole motor does not possess

A	Commutator
B	Centrifugal switch
C	Capacitor
D	All of the above

Correct Ans: **D**

Itemcode : **EU1054**

Q54: Practically, most of the alternators prefer which type of construction?

A	Rotating armature type
B	Rotating field type
C	Both are equally important
D	None of the above

Correct Ans: **B**

Itemcode : **EU1055**

Q55: When stator resistance starter is used, the factor by which stator voltage reduces is x. If x <1, then due to

	stator resistance starter, the starting torque
A	Increases by fraction x
B	Reduces by fraction x^2
C	Reduces by fraction x
D	Increases by fraction x^2
Correct Ans: **B**	

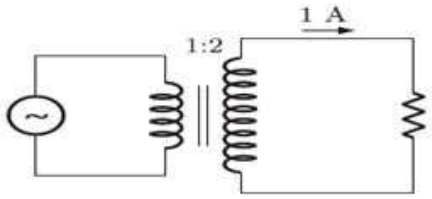
Itemcode : **EU1056**

Q56: A 1500-kw, 550 V, 16-pole lap-connected separately excited generator with 2500 conductors runs at 150 rev per min. The full-load copper losses are 25kW. Find the no-load terminal voltage, neglecting armature reaction and change in speed

A	532.83 V
B	559.16 V
C	538.22 V
D	515.56 V
Correct Ans: **B**	

Itemcode : **EU1057**

Q57: A Single-phase transformer has a turns ratio 1:2, and is connected to a purely resistive load as shown in the figure. The magnetizing current drawn is 1 A, and the secondary current is 1 A. If core losses and leakage reactances are neglected, the primary current is



A	1.41 A
B	2 A
C	2.24 A
D	3 A
Correct Ans: **C**	

Itemcode : **EU1058**

Q58: The direct axis and quadrature axis reactances of a salient pole alternator are 1.2 p.u and 1.0 p.u respectively. The armature resistance is negligible. If this alternator is delivering rated kVA at upf and at rated voltage then its power angle is

A	30°
B	45°
C	60°

D	90°

Correct Ans: **B**

Itemcode : **EU1059**

Q59: A 4 point starter is used to start and control the speed of a

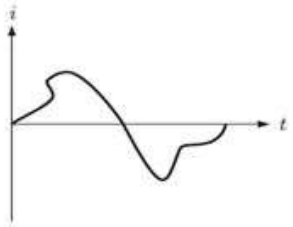
A	dc shunt motor with armature resistance control
B	dc shunt motor with field weakening control
C	dc series motor
D	dc compound motor

Correct Ans: **B**

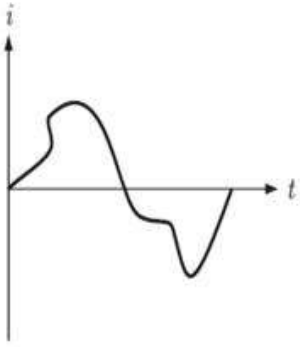
Itemcode : **EU1060**

Q60: A single phase air core transformer, fed from a rated sinusoidal supply, is operating at no load. The steady state magnetizing current drawn by the transformer from the supply will have the waveform

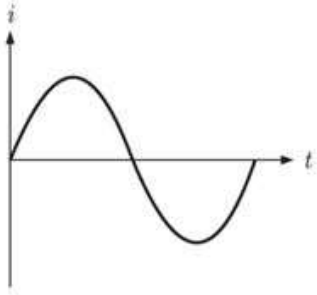
A



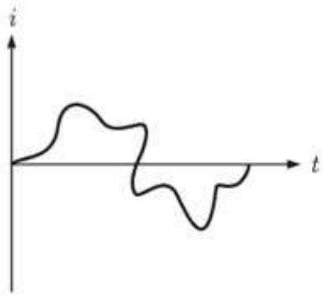
B



C



D



Correct Ans: **C**

Itemcode : **EU1061**

Q61: Match List-I (Relay used) with equipments in List-II and select the correct answer.

List-I	List-II
a. Mho relay	1. Transformer
b. Negative sequence relay	2. Motor
c. Thermal relay	3. Generator
d. Buchholz relay	4. Transmission line

A	a-4, b-3, c-2, d-1
B	a-3, b-2, c-1, d-4
C	a-1, b-2, c-3, d-4
D	a-2, b-3, c-4, d-1

Correct Ans: **A**

Itemcode : **EU1062**

Q62: An 800 kV transmission line has a maximum power transfer capacity of P. If it is operated at 400 kV with the series reactance unchanged then new maximum power transfer capacity is approximately

A	P
B	2P
C	P/2
D	P/4

Correct Ans: **D**

Itemcode : **EU1063**

Q63: A power system consisting of two generating plants, the incremental costs (in Rs/MWh) are given by:

$$\frac{dC_1}{dP_1} = 0.08P_1 + 8; \quad \frac{dC_2}{dP_2} = 0.012P_2 + 9$$

The system is operating on economic dispatch with $P_1 = P_2 = 500$ MW and $\frac{\partial P_L}{\partial P_2} = 0.2$. Where P_L represents the system losses in MW. The penalty factor of plant 1, is given by

A	0.4

B	0.6
C	0.9
D	1
Correct Ans: **A**	

Itemcode : **EU1064**

Q64: A capacitor bank is supplied 50 MVAR at a voltage of 132 kV. Ifthe voltage is raised by 5% and frequency drops by 2%, what is the reactive power supplied by capacitor bank?

A	53.42 MVAR
B	54.02 MVAR
C	55.24 MVAR
D	56.02 MVAR
Correct Ans: **B**	

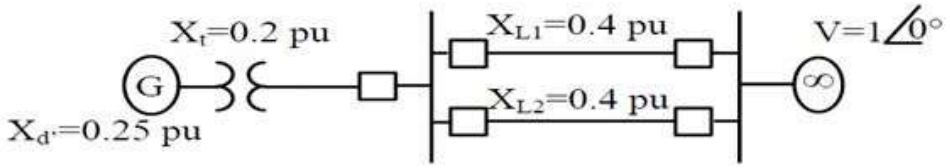
Itemcode : **EU1065**

Q65: A 1000 x 1000 bus admittance matrix for an electric power system has 8000 non-zero elements. The minimum number of branches (transmission lines and transformers) in this power system is

A	5300
B	3500
C	3050
D	5030
Correct Ans: **B**	

Itemcode : **EU1066**

Q66: In the single machine infinite bus system shown below, the generator is delivering the real power of 0.8 pu at 0.8 power factor (lagging) to the infinite bus. The power angle of the generator (in degree) is _____.



A	2.05
B	20.5
C	50.2
D	25.5
Correct Ans: **B**	

Itemcode : **EU1067**

Q67: A 400 kV, 2 micro sec rectangular surge on a transmission line has surge impedance of 350 ohm. It approaches a generating station with capacitance of 3000 pf. The transmission voltage will be

A	560 kV
B	889 kV
C	681 kV
D	903 kV

Correct Ans: **C**

Itemcode : **EU1068**

Q68: The reactive power transfer over a line mainly depends on

A	power angle
B	magnitude value of V_S minus magnitude value of V_R
C	V_S
D	V_R

Correct Ans: **B**

Itemcode : **EU1069**

Q69: To obtain the minimum value of stress in cables, the ratio (R/r) should be

A	2.13
B	2.718
C	2.187
D	2.31

Correct Ans: **B**

Itemcode : **EU1070**

Q70: Which of the following circuit breakers has high reliability and negligible maintenance?

A	Air-blast
B	Oil
C	SF_6
D	Vaccum

Correct Ans: **C**

Itemcode : **EU1071**

Q71: If p is the pulse number and n is an integer, what is the order of harmonics on a. c. side and d. c. side of an HVDC converter?

A	(np+1) and (np-1) respectively
B	(np-1) and np respectively
C	(np+1) and np respectively
D	(np ±1) and np respectively

Correct Ans: **D**

Itemcode : **EU1072**

Q72: Normally Z_{BUS} matrix is a

A	null matrix
B	sparse matrix
C	full matrix
D	unity matrix

Correct Ans: **C**

Itemcode : **EU1073**

Q73: For a fixed receiving end and sending end voltage in a transmission system, what is the locus of the constant power?

A	a straight line
B	an ellipse
C	a parabola
D	a circle

Correct Ans: **D**

Itemcode : **EU1074**

Q74: A travelling wave 400/1/50 means crest value of

A	400 V with rise time of 1/50 s
B	400 kV with rise time of 1s and fall time 50 s
C	400 kV with rise time of 1μs and fall time 50 μs
D	400 MV with rise time of 1μs and fall time 50μs

Correct Ans: **C**

Itemcode : **EU1075**

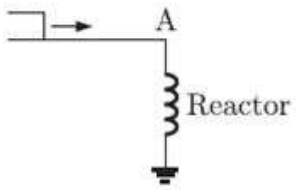
Q75: The surge impedance of a 3 phase, 400kV transmission line is 400Ω. The surge impedance loading (SIL) is

A	400 MW
B	100 MW
C	1600 MW
D	200MW

Correct Ans: **A**

Itemcode : **EU1076**

Q76: Consider a step voltage of magnitude 1 pu travelling along a lossless transmission line that terminates in a reactor. The voltage magnitude across the reactor at the instant travelling wave reaches the reactor is

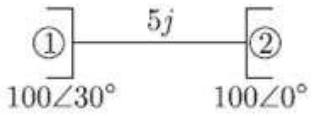


A	-1 pu
B	1 pu
C	2 pu
D	3 pu

Correct Ans: **A**

Itemcode : **EU1077**

Q77: Consider two buses connected by an Impedance of (0 + j5)W. The bus '1' voltage is 100+∠30° V and bus '2' voltage is 100+∠0° V. The real and reactive powers supplied by bus '1' respectively are



A	1000 W, 268 VAr
B	-1000 W, -134 VAr
C	276.9 W, -56.7 VAr
D	-276.9 W, 56.7 VAr

Correct Ans: **A**

Itemcode : **EU1078**

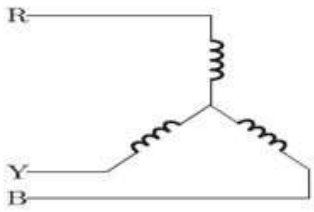
Q78: A three-phase, 33 kV oil circuit breaker is rated 1200 A, 2000 MVA, 3 s. The symmetrical breaking current is

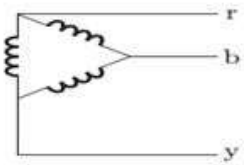
A	1200 A
B	3600 A
C	35 kA
D	104.8 kA

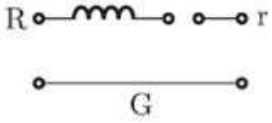
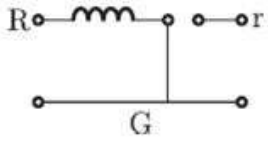
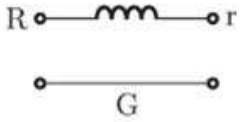
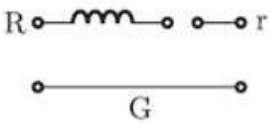
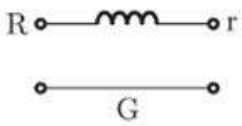
Correct Ans: **C**

Itemcode : **EU1079**

Q79: The zero-sequence circuit of the three phase transformer shown in the figure is





A	
B	
C	
D	either  or 

Correct Ans: **B**

Itemcode : **EU1080**

Q80: Bundled conductors are mainly used in high voltage overhead transmission lines to

A	reduces transmission line losses
B	increase mechanical strength of the line
C	reduce corona
D	reduce sag

Correct Ans: **C**

Itemcode : **EU1081**

Q81: In which of the following districts of Himachal Pradesh, the Chanderkup Lake is located?

A	Kullu.
B	Kinnaur.
C	

	Sirmaur.
D	Chamba.
Correct Ans: **D**	

Itemcode : **EU1082** **Q82:** The Beas river enters the Kangra district of Himachal Pradesh at:	
A	Sandhol.
B	Suketi.
C	Kanihara.
D	Har.
Correct Ans: **A**	

Itemcode : **EU1083** **Q83:** In which of the following month, the Trilokpur Fair is celebrated in Sirmaur district of Himachal Pradesh?	
A	July.
B	August.
C	September.
D	October.
Correct Ans: **C**	

Itemcode : **EU1084** **Q84:** The number of Block Samitis in Himachal Pradesh in the year 2013-14, was :	
A	70
B	75
C	80
D	73
Correct Ans: **B**	

Itemcode : **EU1085** **Q85:** Of the following, which is correct about women's participation in the election of 2007 and their representation in the Himachal Pradesh Legislative Assembly? (i) 30 women contested the election. (ii) 25 women contested the election. (iii) Women won only five seats. (iv) Women won only three seats.	
A	(i) & (iii).
B	(ii) & (iii).
C	(iv) only.

D	(i) & (iv).

Correct Ans: **B**

Itemcode : **EU1086**

Q86: Himachal Pradesh won the Krishi Karmanya Puraskar on the national level for the first time in :

A	2015-16.
B	2010-11.
C	2014-15.
D	2012-13.

Correct Ans: **C**

Itemcode : **EU1087**

Q87: The Himachal Pradesh Economic Survey 2020-21, proposes to bring down the percentage of people belonging to the Below Poverty Line to _____:

A	2%
B	3%
C	4.3%
D	5.1%

Correct Ans: **A**

Itemcode : **EU1088**

Q88: Which of the following is correct about the effect of Covid-19 on the arrival of tourists in Himachal Pradesh in the year 2020 (upto December), according to H.P. Government Economic Survey- 2020-21.

(i) There is no adverse effect as the number of tourists started declining from April, 2020.

(ii) The decline of Tourists is 61%.

(iii) The decline of tourists is 81%.

(iv) The decline of tourists is 94%.

A	(i) only.
B	(ii) only.
C	(iii) only.
D	(iv) only.

Correct Ans: **C**

Itemcode : **EU1089**

Q89: Which of the following is the correct figure of Females per 1000 of males in Lahaul-Spiti district of Himachal Pradesh, according to the Census of 2001?

A	903
B	804
C	817
D	842

Correct Ans: **B**

Itemcode : **EU1090**

Q90: The Parshuram Award (Sports) was awarded to Mr. Chaman Singh of Himachal Pradesh for his contribution to :

A	Kabaddi.
B	Boxing.
C	Wrestling.
D	Volley Ball.

Correct Ans: **D**

Itemcode : **EU1091**

Q91: The Nanga Parbat is located in the Indian State/ Union Territory of :

A	Ladakh.
B	Arunachal Pradesh.
C	Uttarakhand.
D	Manipur.

Correct Ans: **C**

Itemcode : **EU1092**

Q92: Which of the following is the correct explanation of the term Gross National Product (GNP)?

A	When the net earnings from abroad are added to the Gross Domestic Product (GDP).
B	When the income of Share Market is added to the GDP.
C	When the income from the disinvestment is added to the GDP.
D	When the Black Money collected through the Income Tax raids is added to the GDP.

Correct Ans: **A**

Itemcode : **EU1093**

Q93: The first Indian woman pilot in the Indian Navy who took control of an aircraft in 2019, was :

A	Aruna Bhatnagar.
B	Renu Chaudhary.
C	Meenakshi.
D	Shivangi.

Correct Ans: **D**

Itemcode : **EU1094**

Q94: Which of the following Article of the Constitution of India gives power to the Governor of a State for granting pardon to a convict?

A	Article - 72.
B	Article – 161.

C	Article – 125.
D	Article – 94.
Correct Ans: **B**	

Itemcode : **EU1095**

Q95: Which of the following is not correct about the Ghadar Movement?

A	Its headquarters called the Yugantar Ashram, were set-up in San Francisco (USA).
B	Its weekly paper, *The Ghadar* was started in English.
C	Har Dayal played a key role in its formation.
D	Some of its founding members included Sohan Singh Bhakna, Harnam Singh Tundilat, etc.
Correct Ans: **B**	

Itemcode : **EU1096**

Q96: Which of the following is correct about the Global Democracy Index-2019?

(i) It was topped by Norway.

(ii) It was topped by USA.

(iii) It was topped by Australia and New Zealand.

A	(i) only.
B	(ii) only.
C	(iii) only.
D	(ii) & (iii).
Correct Ans: **A**	

Itemcode : **EU1097**

Q97: After which world crisis the Keynesian theory emerged in Economics?

A	During the First World War.
B	After the Great Depression of 1929.
C	In the Economic crisis of USA & Europe during the first decade of 21st century.
D	After the Cold War period.
Correct Ans: **B**	

Itemcode : **EU1098**

Q98: The Scientist of which following country made the Hydrogen Bomb first? Give the correct name of country and the year.

A	USSR, 1950.
B	China, 1949.
C	Brazil, 1951.
D	USA, 1952.

Correct Ans: **D**

Itemcode : **EU1099**

Q99: In which of the following Sea/Ocean the Island of Malta is located?

A	Baltic Sea.
B	Black Sea.
C	Mediterranean Sea.
D	Pacific Ocean.

Correct Ans: **C**

Itemcode : **EU1100**

Q100: Identify from the following, the winner and loser countries in the final 2020-ICC Women's T-20 World Cup?

A	Winner		Loser
	Australia	-	India.
B	Winner		Loser
	India	-	Great Britain.
C	Winner		Loser
	New Zealand	-	Bangladesh.
D	Winner		Loser
	Australia	-	New Zealand.

Correct Ans: **A**