



SSC JE 2019-20

Electrical Engineering

Mini Mock Challenge
(July 15- July 16 2020)

Questions &
Solutions

1. In the following question, select the related group of letters from the given alternatives.

BOS : IVZ :: DOG : ?

- A. MTV
- B. KVN
- C. KBC
- D. RBC

Ans. B

Sol. As,

B O S
 ↓ +7 ↓ +7 ↓ +7
 I V Z

Similarly,

D O G
 ↓ +7 ↓ +7 ↓ +7
 K V N

Thus, BOS: IVZ :: DOG: KVN

Hence, option B is the correct answer.

2. In the following question, select the related number from the given alternatives.

15 : 45 :: 25 : ?

- A. 100
- B. 225
- C. 125
- D. 135

Ans. C

Sol. $15^2/5=225/5=45$

In the same way,

$25^2/5=625/5=125$

Thus, 15 : 45 :: 25 : 125

Hence, option C is the correct answer.

3. In the following question, select the odd number from the given alternatives.

- A. 118
- B. 424
- C. 262
- D. 238

Ans. D

Sol. $118 = 1 + 1 + 8 = 10$

$424 = 4 + 2 + 4 = 10$

$262 = 2 + 6 + 2 = 10$

$238 = 2 + 3 + 8 = 13$

Hence, option D is the correct answer.

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4. Three of the following four words are alike in a certain way and one is different. Pick the odd one.

- A. Yuan
- B. Lira
- C. Cuba
- D. Baht

Ans. C

Sol. Except for Cuba, all other are the name of currencies of different countries while Cuba is the name of the country.

Yuan - Currency of China

Lira - Currency of Turkey

Baht - Currency of Thailand

Hence, option C is the correct response.

5. **Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.**

- 1) Result
 - 2) Scholarship
 - 3) Students
 - 4) Admission
 - 5) Test
- A. 3,5,1,2,4
 - B. 3,4,1,2,5
 - C. 1,5,3,2,4
 - D. 3,5,4,2,1

Ans. A

Sol. Correct order to get scholarship for admission in higher education is-

3. Students

5. Test

1. Result

2. Scholarship

4. Admission

Correct order is- 3,5,1,2,4

Hence, option A is the correct answer.

6. Abhinandan said, his brother is married to Jyoti who is the daughter of Bhargav who is the husband of Priyanka. How's the Priyanka related to Abhinandan's brother?

- A. Aunt
- B. Mother
- C. Mother-in-law
- D. Sister

Ans. C

Sol.

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2nd Column:

$$(8+8)*(3+2)=16*5=80$$

Hence, option A is the correct answer.

9. **Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.**

Statements :

Some children are clever

All children are honest

Conclusions :

I. Some clever are children

II. Some honest are children

III. Some clever are honest

A. Either conclusion I or III follows

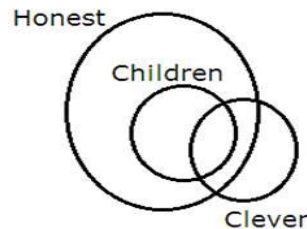
B. Only conclusions I and II follow

C. Only conclusions II and III follow

D. All conclusions follow

Ans. D

Sol. Minimum Possible diagram is-



Conclusions :

I. Some clever are children.(It follows as its obvious from the above diagram.)

II. Some honest are children.(It also follows as its obvious from the above diagram.)

So, All conclusions follow.

Hence, option D is the correct answer.

10. **Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.**



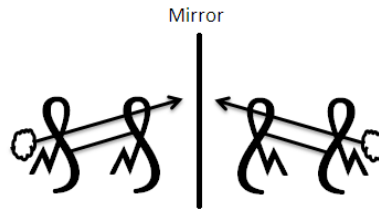
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Ans. C

Sol. In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.



Hence, option C is the correct answer.

11. Which incident is considered as the first hunger strike of Mahatma Gandhi in India?
- A. Camparan Satyagrah
 - B. Ahmedabad Mill Strike
 - C. Kheda Satyagrah
 - D. Rowlatt Satyagrah

Ans. B

Sol. Ahmedabad Mill Strike is considered as the **first hunger strike of Mahatma Gandhi** in India.

- Mahatma Gandhi sat on fast unto death to meet the demands of raising bonus of mill workers upto 35 percentage.
- **Anusuya Sarabhai** associated with gandhiji in this mill strike.
- Anusuya Sarabhai later formed the **Ahmedabad Textile Labour Association** in 1920.
- Ultimately the hunger strike of gandhiji was called off when the owners agreed on allocation of 35 percentage bonus to workers.

12. The non-cooperation movement was a reaction towards which incidents caused by Britisher's oppressive rule?
- A. Rowlatt Act
 - B. Jallianwala Bagh massacre
 - C. Simon Commission
 - D. Both A and B

Ans. D

Sol. The non-cooperation movement was a reaction towards the oppressive policies of the British Indian government such as the **Rowlatt Act and the Jallianwala Bagh massacre in Amritsar.**

- The Non-cooperation movement was launched on 1st August 1920 by Mahatma Gandhi.

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13. Whose presided the 1929 session of congress?
- | | |
|-----------------|----------------------|
| A. Gandhi Ji | B. Jawahar Lal Nehru |
| C. Sardar Patel | D. Sarojini Naidu |

Ans. B

Sol. * The **1929 Session of Indian National Congress was presided by Jawahar Lal Nehru** at Lahore.

* In this session he put forward the demand of Poorna Swaraj and asked the people of India to observe 26th of January as Independence Day.

* The flag of India was hoisted publicly across India by Congress volunteers, nationalists and the public.

* This session is a landmark in the history of Indian National Movement.

14. The doctrine of basic structure of constitution was given in which case?
- | | |
|-----------------------|---------------------------|
| A. Golak Nath case | B. Keshwanand bharti case |
| C. Minerva mills case | D. Indira Sahani case |

Ans. B

Sol. The doctrine of basic structure of constitution was given in **Keshwanand bharti case**, 1973.

* In this case, The Supreme Court held that the Parliament has power to amend any provision of the constitution, but doing so, the basic structure of the constitution is to be maintained.

* The basic features of the Constitution include:

Supremacy of the constitution, Republican and democratic form of government, Secular character of the constitution, Federal character of the constitution, Separation of power etc.

15. Which part of the Indian Constitution is related to the Elections?
- | | |
|-------------|------------|
| A. Part XX | B. Part X |
| C. Part XII | D. Part XV |

Ans. D

Sol. • **Article 324 to 329 in Part XV** of the Constitution contains the provisions with regard to the electoral system in India.

• Elections in India have been the largest electoral exercise in the world since the 1st general elections of 1952.

• Article 324 provides for an independent Election Commission in order to ensure free and fair elections in the country.

16. What is the coastal part of Maharashtra called?
- | | |
|---------------------|------------------|
| A. Coromandel Coast | B. Malabar Coast |
| C. Kanara Coast | D. Konkan Coast |

Ans. D

- Sol. • The coastal part of Maharashtra is called Konkan Coast.
• Parts of Andhra coast and coast of Tamil Nadu together are known as Coromandel Coast.
• The coastal area of Kerala is known as Malabar Coast.
• The coastal area of Karnataka is known as Kanara Coast.

17. MIKE Programme is related to the conservation of?
A. Mouse
B. Kite
C. Elephant
D. Musk Deer

Ans. C

- Sol. • MIKE stands for **Monitoring of Illegal killing of Elephants program**.
• The MIKE Programme was established by CITES by Resolution 10.10 adopted at the tenth Conference of the Parties in 1997.
• The Ministry of Environment and forests in partnership with Wildlife Trust of India has launched a campaign **Hathi Mere Sathi**.
• India has 10 sites listed under this programme while there are currently 28 sites in MIKE programme in Asia.
• The list of 10 MIKE sites in India is as follow-
⇒ **Chirang-Ripu Elephant Reserve, Deomali Elephant Reserve, Dihing Patkai Elephant Reserve, Garo Hills Elephant Reserve, Eastern Dooars Elephant Reserve, Mayurbhanj Elephant Reserve, Shivalik Elephant Reserve, Mysore Elephant Reserve, Nilgiri Elephant Reserve and Wayanad Elephant Reserve.**

18. What is the colour of the light emitted by the Sun?
A. Red
B. Yellow
C. White
D. Orange

Ans. C

- Sol. • White colour light is emitted by the sun.
• It is a composite of all the visible frequencies of light.
• Sunlight can be broken into the full spectrum of its colors: red, orange, yellow, **green**, blue, indigo and violet .

19. What is Gotabaya Rajapaksa's nationality?
A. Bangladeshi
B. Sri Lankan
C. Indonesian
D. Burmese

Ans. B

- Sol. • Gotabaya Rajapaksa is a Sri Lankan politician, technocrat, and military officer, who is the current President of Sri Lanka.
• He served as Secretary to the Ministry of Defence and Urban Development from 2005 to 2015 under the administration of his elder brother former President Mahinda Rajapaksa.

20. The earliest book on mathematics Sulvasutra was written by whom?

- A. Aryabhatta
- B. Apastamba
- C. Baudhayana
- D. Brahamgupta

Ans. C

Sol. * The earliest book on mathematics was **Sulvasutra written by Baudhayana** in the 6th century BC.

* There is a mention of '**Pi**' and even some concepts very similar to **Pythagoras theorem in the Sulvasutra.**

* **Apastamba** introduced the concept of practical geometry involving acute angles, obtuse angles and right angles.

* **Aryabhatta** in around 499 AD wrote **Aryabhattiya** in which the concepts of mathematics as well as astronomy were mentioned.

21. Telephone companies make use of the Wheatstone bridge for

- A. Computing line strength
- B. Locating cable faults
- C. Measuring the telephone wire resistance
- D. Maintaining Dial tone

Ans. B

Sol. Cable faults in telephone line are detected by using Wheatstone bridge.

22. A 200V, 1kVA transformer is fully loaded with maximum voltage regulation of 5%. The amount of copper loss in half loaded transformer if $X_{pu} = 0.04$ and turn ratio is 5.

- A. 7.5W
- B. 30W
- C. 75W
- D. 300W

Ans. A

Sol. Maximum voltage regulation = 5% i.e. $\%Z = 5\%$

$$\text{We know that } \%Z = \sqrt{\%X^2 + \%R^2}$$

$$\Rightarrow 0.05 = \sqrt{0.04 + R^2}$$

$$\Rightarrow R_{pu} = 0.03$$

$$R_{pu} = (\text{copper loss})_{pu}$$

$$\text{Hence copper loss} = (\text{Copper loss})_{pu} \times \text{KVA rating}$$

$$= 0.03 \times 1$$

$$= 0.03\text{KW}$$

$$= 30\text{W}$$

$$\text{Copper loss at half load} = \left(\frac{1}{2}\right)^2 \times \text{copper loss at full load}$$

$$= \frac{1}{4} \times 30$$

$$= 7.5\text{W}$$

23. For sinusoidal waveform, the relation between Peak Value (V_p) & Peak to Peak value ($V_{p,p}$) is

A. $V_{p,p} = \sqrt{2}V_p$

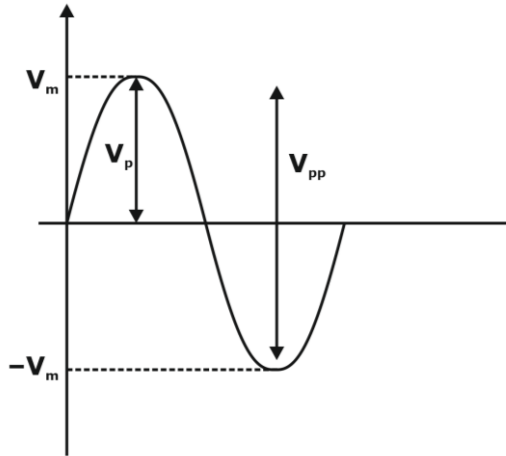
B. $V_{p,p} = 1.11 V_p$

C. $V_{p,p} = V_p$

D. $V_{p,p} = 2 V_p$

Ans. D

Sol.



Hence $V_{p,p} = 2V_p$

24. Ammeters are calibrated to read

A. RMS value

B. Average value

C. Instantaneous value

D. None of the above

Ans. D

Sol. Ammeters can read RMS as well as Average value. It totally depends on instrument which is used as ammeters.

Suppose, PMMC type ammeter is used then the reading value will be average value

Or if moving iron type ammeter is used then reading value will be RMS value.

25. Match the following:

P: DC machine

Q: Synchronous machine

R: Transformer

S: Induction machine

x: Static Induced EMF

y: Dynamic Induced EMF

z: Static + Dynamic Induced EMF

A. P-z, Q-y, R-x, S-z

B. P-x, Q-y, R-z, S-y

C. P-x, Q-z, R-x, S-z

D. P-y, Q-y, R-x, S-z

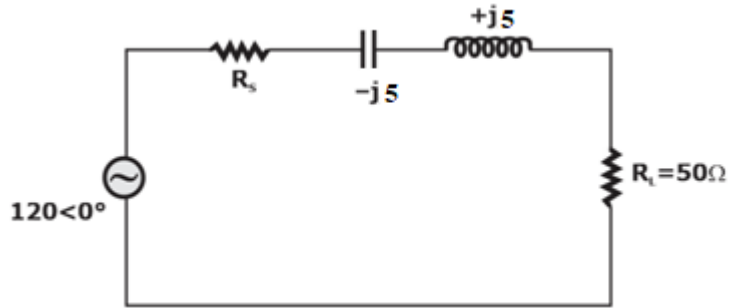
Ans. D

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- Sol. DC Machine → Dynamic induced EMF
- Synchronous Machine → Dynamic Induced EMF
- Induction Machine → Static + Dynamic induced EMF
- Transformer → Static induced EMF

26. In the given circuit, the source resistance can vary from 10ohm to 100ohm. For maximum power transfer from source side, the value of source resistance is



- A. 0ohm
- B. 10ohm
- C. 50ohm
- D. 100ohm

Ans. B

Sol. Since load resistance is fixed. Hence concept of maximum power transfer theorem is not applicable. For maximum load power ⇒ I²R_L

i.e. either I should maximum or R_L should maximum.

Since R_L is fixed. Hence I should maximum

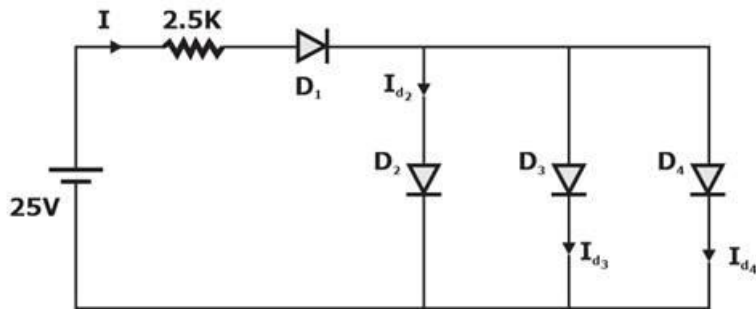
$$V = I(R_s + R_L)$$

$$I = \frac{V}{R_s + R_L}$$

If R_s is minimum then I will be maximum. Minimum value of R_s = 10ohm

Because source resistance can vary from 10ohm to 100ohm (given condition).

27. For the below circuit, If diode D₁, D₂& D₄ are silicon diodes & Diode D₃ is Germanium diode then :



- A. I_{d2} > I_{d3}; I > I_{d2}
- B. I > I_{d3}; I_{d2} = I_{d4}
- C. I > I_{d4}; I_{d2} = I_{d3}
- D. I_{d3} > I_{d4}; I = I_{d3}

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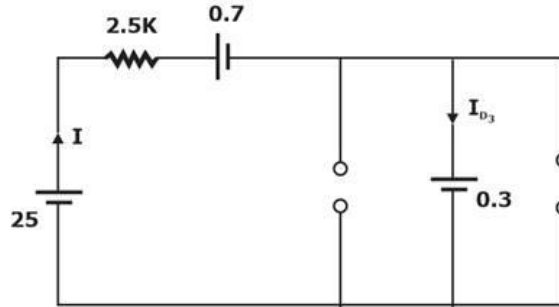
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Ans. D

Sol. Silicon diode has forward bias voltage of 0.7V

Germanium diode has forward bias voltage of 0.3V

Hence when Germanium diode get activated it develop voltage of 0.3V. This 0.3V will restrict silicon diode from activating.



$$I = \frac{25 - 0.7 - 0.3}{2.5} = \frac{24}{2.5} \text{ mA} = I_{D3}$$

$$= 9.6 \text{ mA}$$

28. Surge impedance of the line

- A. Maximum at Load End.
- B. Maximum at Source End.
- C. Maximum at mid point.
- D. Constant throughout line.

Ans. D

Sol. Surge impedance $Z_S = \sqrt{\frac{L}{C}}$ is independent of length

Hence it is constant throughout the line.

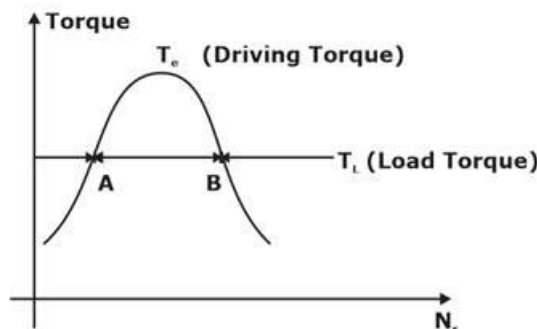
29. Noise is a function of:

- A. Current
- B. Voltage
- C. Frequency
- D. Bandwidth

Ans. D

Sol. Noise in general depends on the value of Bandwidth.

30. Below figure shows the Torque-speed characteristic of a particular induction motor. The graph shows



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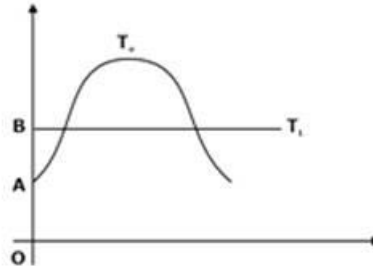
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- A. Point A is Stable.
- B. Point B is Stable.
- C. Point A & Point B has same Nature.
- D. Motor will not start.

Ans. D

Sol. When Starting Torque smaller than Load torque, then motor will not start.

If motor is not in running condition then there is no discussion about stable & unstable operating points



Since OA smaller than OB that means T_e smaller than T_L .

31. Fleming Right Hand Rule is used to determine:-

- A. Direction of Induced EMF in Motoring Action.
- B. Direction of Induced EMF in Generation Action.
- C. Both (A) & (B)
- D. Fleming Right hand Rule is not associated with Voltage/Current.

Ans. B

Sol. This rule is used to determine the direction of Induced EMF for generating action.

32. Significance of measuring low resistance is

- A. No power loss
- B. No current flow
- C. More voltage transfer
- D. Contact & lead resistances are appreciable

Ans. D

Sol. On measuring low resistance of order 1ohm, lead & contact resistance of milliohm order even can't neglected.

33. Ohm's law for Magnetic circuit (Symbols has their standard meanings).

- A. $MMF = S \times \text{Flux}$
- B. $MMF = NI$
- C. $MMF = HL$
- D. $V = IR$

Ans. A

Sol. $MMF \propto \text{Flux}$. Ohm's law for magnetic circuit

$$MMF = S \times \text{Flux}$$

Where 'S' is proportional constant.

34. Out of the following process, in which Welding process heat and pressure is applied on the joint but no filler material or flux is added?

- A. Thermite welding
- B. Gas welding
- C. Resistance welding
- D. Arc welding

Ans. C

Sol. Resistance welding is the joining of metals by applying pressure and passing current for a length of time through the metal area which is to be joined. The key advantage of resistance welding is that no other materials are needed to create the bond, which makes this process extremely cost effective.

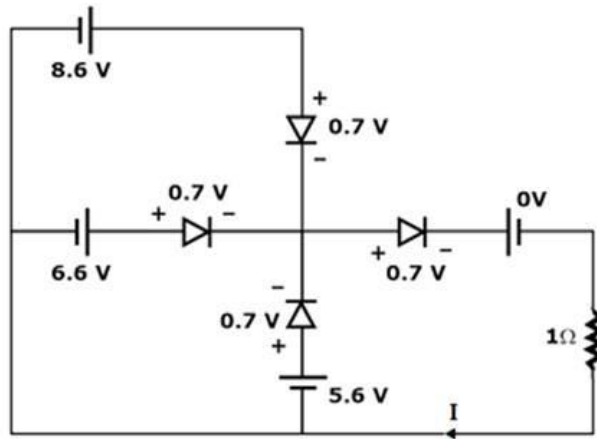
35. Hay's bridge is suitable for measurement of inductance with large Q-factor because

- A. It employs L & C in two arms.
- B. Value of Inductance can be made independent of frequency.
- C. It used to measure Dielectric loss.
- D. None of the above

Ans. B

Sol. For larger value of Q. Inductance is given by $L_1 = R_2 R_3 C_4$

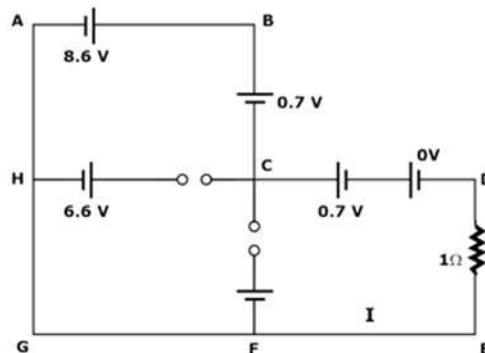
36. For the below circuit, correct I is equal to



- A. 0A
- B. 4.2A
- C. 5.2A
- D. 7.2A

Ans. D

Sol. Diode with higher potential will ON, rest all will open circuited.



On Applying KVL : ABCDEFGHA

$$-8.6 + 0.7 + 0.7 + (I \times 1) = 0$$

$$I = 7.2A$$

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37. The corona loss on a particular system at 75Hz is 5KW/phase/km. The corona loss on the same system if supply frequency is 25Hz.
- A. 1.6KW/phase/km
 - B. 2.5KW/phase/km
 - C. 5KW/phase/km
 - D. 15KW/phase/km

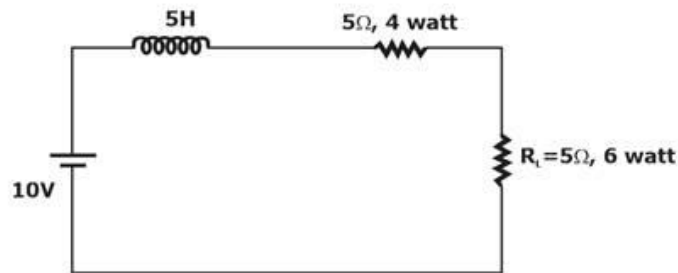
Ans. B

Sol. $P \propto (f + 25)$

$$\frac{5}{P_c} = \frac{75 + 25}{25 + 25}$$

$$P_c = \frac{5 \times 50}{100} = 2.5 \text{ kW/phase/km}$$

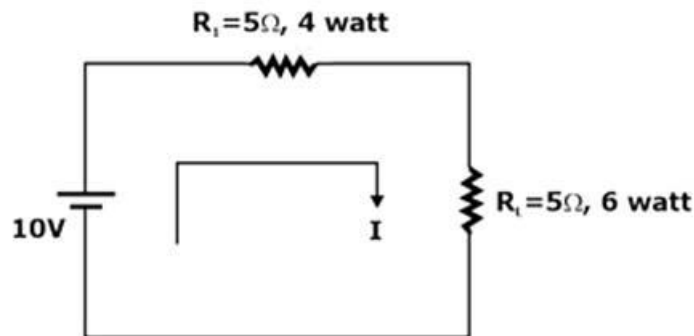
38. In steady state DC condition the power developed across R_L will be



- A. 6watt
- B. 5watt
- C. 0watt
- D. Not possible to calculate due to Inductance

Ans. C

Sol. In steady state DC condition $L \rightarrow$ Short circuited



$$I = \frac{10}{5 + 5} = 1 \text{ Amp}$$

Hence Power across $R_L = (1)^2 \times 5 = 5\text{watt}$

And Power across $R_1 = (1)^2 \times 5 = 5\text{watt}$

But the rating of R_1 resistance is given 4 watt but it is getting 5 watt. Hence R_1 resistance will get burnt and hence network will be open circuited.

So $I = 0\text{A}$

Power across load $= 0^2 \times 5 = 0\text{watt}$

39. A 400Hz, 100km Transmission line is considered as
- A. Short line
 - B. Medium line
 - C. Long line
 - D. Extra long line

Ans. C

Sol. For Long line:- Product of (length & frequency) greater than 10000

$$\Rightarrow 400 \times 100 = 40000$$

$$\Rightarrow 40000 \text{ greater than } 10000$$

40. A generating station has a connected load of 50MW and a maximum demand of 30MW, the units generated being 87.6×10^6 per annum. The load factor is

- A. 0.033
- B. 0.6
- C. 0.033 %
- D. 0.6 %

Ans. C

Sol. Load factor = $\frac{\text{Average demand}}{\text{maximum demand}}$

$$\text{Average demand} = \frac{87.6 \times 10^6}{24 \times 365} = \frac{\text{Unit generated}}{\text{Total hour in year}} = 10000 \text{ w}$$

$$\text{Load factor} = \frac{10000}{30 \times 10^6} = 0.000333$$

$$= 0.033\%$$

41. On using flow meter if the Flux changes from +ve to -ve, the modification happens to the current is

- A. Current starts decaying.
- B. Current becomes zero instantly.
- C. Current gets reverse.
- D. No change in current

Ans. C

Sol. Flux is consider as analogy to current in magnetic circuit. If flux gets negative that means current reverses its directions.

42. The total numbers of electrons flowing in the circuit, if a circuit carry 1A current

- A. 1.6×10^{-19}
- B. 1.6×10^{19}
- C. 0.625×10^{-19}
- D. 0.625×10^{19}

Ans. D

Sol. 1 Amp = 1 coulomb per sec

Also 1 electron = 1.60×10^{-19} coulomb

$$\text{Or } \frac{1}{1.60 \times 10^{-19}} \text{ electrons} = 1 \text{ coulomb}$$

$$\Rightarrow 0.625 \times 10^{19} \text{ electron} = 1 \text{ coulomb}$$

$$\Rightarrow 0.625 \times 10^{19} \text{ electron} = 1\text{A}$$

43. Which of the following material is used for making LEDs?
- A. Silicon
 - B. Germanium
 - C. GaAsP
 - D. Selenium

Ans. C

Sol. In silicon & Germanium, the major chunk of energy is given off as heat, Hence the emitted light isn't significant. In GaAsP the number of photons is enough to create a visual source of light.

44. The heat can be transferred from high temperature body to low temperature body by :
- A. Convection method
 - B. Conduction method
 - C. Radiation method
 - D. All of the above

Ans. D

Sol. With all three methods, Heat transfers from higher temperature to lower temperature.

45. The crest factor for the Voltage waveform of $220\cos(\omega t - 45^\circ)$ is
- A. 1.11
 - B. 1.414
 - C. 0.707
 - D. 45

Ans. B

Sol. Crest factor = $\frac{\text{Peak}}{\text{RMS}}$

For $220\cos(\omega t - 45^\circ) \rightarrow \text{Peak} = 220\text{V}$

$\text{RMS} = 220/\sqrt{2}\text{V}$

$$\text{C.F.} = \frac{220}{\left(\frac{200}{\sqrt{2}}\right)}$$

$$\text{C.F.} = \sqrt{2}$$

46. For 4 pole pair DC generator with total 32 numbers of conductors. The required numbers of Equalizer ring are
- A. 8 & Winding should be lap wound.
 - B. 8 & Winding should be wave wound.
 - C. 16 & Winding could be lap or wave.
 - D. Equalizer ring is not needed for DC generator.

Ans. A

Sol. Equalizer ring are required only in lap winding.

$$\text{Number of equalizer ring} = \frac{\text{Number of conductor}}{\text{Number of pole pair}} = \frac{32}{4} = 8$$

47. Instantaneous Power in Inductor is proportional to
- A. Square of instantaneous current
 - B. Square of rate of change of current
 - C. Product of rate change of current & instantaneous current
 - D. Resonating frequency

Ans. C

Sol. $P = V \times I$

$$= \frac{L di}{dt} \times I$$

$$\text{Hence } P_{\text{instant}} \propto \left(\frac{di}{dt} \right) (I_{\text{instant}})$$

48. The Dual pair of current is

- A. Current source
- B. Flux
- C. Voltage
- D. Resistance

Ans. C

Sol. Dual pair of Current is Voltage.

49. The function of moderate in Nuclear Reactor is to

- A. Accelerate the Neutron
- B. Slow down the Neutron
- C. Filter the Neutron
- D. Divert the Neutron

Ans. B

Sol. The purpose of moderate is to slow the fast moving neutrons.

50. A 2-wire DC system is used to transmit Power 10MW at 400kV voltage level. The approximate Power loss in the distribution system, if the entire length resistance is 5ohm.

- A. 1041W
- B. 2083W
- C. 3125W
- D. 6250W

Ans. D

Sol. $P = VI$

$$I = \frac{P}{V} = \frac{10 \times 10^6}{400 \times 10^3} = 25 \text{ Amp}$$

$$\begin{aligned} \text{Power loss} &= (I^2R) \times 2 \\ &= (25^2 \times 5) \times 2 \\ &= 6250W \end{aligned}$$

Upcoming Mini Mock Challenge in July Month

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Electrical Engineering

Exam	Live Date	Syllabus	No. of Questions	Time
SSC JE Mini Mock Test-1	08 July 2020	Full Syllabus (Tech. (30 Q's) & Non-Tech. (20 Q's))	50	30
SSC JE Mini Mock Test-2	15 July 2020	Full Syllabus (Tech. (30 Q's) & Non-Tech. (20 Q's))	50	30
SSC JE Mini Mock Test-3	22 July 2020	Full Syllabus (Tech. (30 Q's) & Non-Tech. (20 Q's))	50	30
SSC JE Mini Mock Test-4	29 July 2020	Full Syllabus (Tech. (30 Q's) & Non-Tech. (20 Q's))	50	30



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