



SENIOR - 2022 RECOGNIZATION

Subject Name: Electrical Power Transmission & Distribution Model Answer: **22419:EPT**

Important Instructions to candidates:

- The answers should be submitted by day twenty and not on or after the model answer scheme.
- The candidate must ensure the answers they submit must carry that the candidate they try to answer the corresponding item of the candidate.
- The language errors such as grammatical, spelling errors should not be given more importance than approaches for solution English and communication skills.
- Before answering questions, candidate must give credit for principal components indicated in the figure. The figure shows the candidate and model answer may vary. The candidate must give credit for any equivalent figure shown.
- Candidate may give credit only when the numerical problem is correct. In some cases, the numerical content value may vary and there may be some difference in the candidate's answers and model answer.
- In case of some questions, candidate may give the given for judgment on part of candidate of relevant answer based on candidate's knowledge.
- For project-based language program, candidate may be given any other project based on project-based concepts.

Q. No.	Ans. No.	Answer	Marking Scheme
1.		Attempt any FIVE of the following:	
a)		Write the standard transmission voltages in ENGLA. Ans: Standard Transmission Voltages in ENGLA: 240KV, 275KV, 300KV, 400KV, 520 KV, 550 KV, 765KV, 1100KV and 1380KV.	10 Marks 1/2 Mark for each of any five (five) = 2 Marks
b)		Define: i) Transmission Efficiency ii) Voltage regulation in Transmission line. Ans: i) Transmission Efficiency: The ratio of received end power to sending end power of a transmission line is known as transmission efficiency of that line. $\text{Transmission Efficiency} = \frac{\text{Receiving end power}}{\text{Sending end power}} \times 100$ ii) Transmission Efficiency = $\frac{\text{Receiving end power}}{\text{Sending end power}} \times 100$ where V_R is end voltage at the receiving end voltage, current and power factor when V_R is end voltage and corresponding values at the sending end. ii) Voltage regulation in Transmission line: The difference in voltage at the receiving end of a transmission line between conditions of no load and full load is called voltage regulation and is expressed as a percentage of the receiving end voltage. $\text{Voltage regulation} = \frac{\text{Transmission voltage change at no load, when}}{\text{Receiving end voltage}} \times 100$ where V_R is receiving end voltage and V_S is sending end voltage.	1 Mark 1 Mark

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- State any four factors on which skin effect depends.
Ans:
Factors on Which Skin Effect Depends:
1. Frequency of current flowing through the conductor.
2. Diameter of the conductor.
3. The shape of the conductor (solid or stranded).
4. Type of conductor material (permeability of conductor material).
- Give any two limitations of EHVAC in a distribution system.
Ans:
Limitations of EHVAC in a Distribution System:
1. Cost of installation is much more as installation cost increases with working voltage.
2. Skin effect is more.
3. Proximity effect is more.
4. Corona losses are taking place with EHVAC system and they are almost absent with distribution system.
5. Radio interference is more with EHVAC system.
6. Ground return not possible with EHVAC system.
7. Voltage control is complicated with EHVAC system.
8. Power flow cannot be easily controlled with EHVAC system.
9. Short circuit current is more with EHVAC system.
10. In case of EHVAC system, automatic reclosures are required at every 200 km to improve the performance of transmission line.
11. It cannot be transmitted with EHVAC through underground cable, there there is insulation on the length of cable due to changing current, e.g. for 400KV line insulation on length of cable is 25 km.
12. Stability of EHVAC is very low because of presence of inductance.
13. Transient performance is poor in EHVAC system.
14. To improve the performance of transmission line complex circuitry and additional equipment such as series, shunt reactors, capacitors, FACTS controllers etc. are required with EHVAC system of current EHVAC system.
15. EHVAC system is economical only for bulk amount of power as to be transmitted over the long distance.
16. Highly skilled capacitors / technicians are required for operation and maintenance of EHVAC systems.
17. Cost of equipments installed with EHVAC system is much more.
- Compare feeder and distribution on any two parameters.
Ans:
Comparison between feeder and distribution:

No. No.	Feeder	Distribution
1.	It is bulk between receiving substation and distribution transformer.	It is bulk between distribution transformer substation & consumer.
2.	It is generally a 3-phase, 3-wire.	It is generally a 3-phase, 4-wire.

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System (R, S & T)	System (R, S & T)
1. While designing feeder, its current carrying capacity is the main consideration.	1. While designing distribution, its voltage drop along the length of conductor is the main consideration.
2. There is no tapping at all on feeders along its complete length.	2. Distribution are tapped throughout its length according to requirements.
3. Feeder voltage is generally at 11KV / 22KV / 33KV.	3. Distribution voltage is 400V/240V for single phase consumers and 230V/120V for single phase consumers.
4. Feeder forms the primary distribution system.	4. Distributors forms secondary distribution system.
5. Its loading point is at substation only.	5. Distributors loading point is throughout its length.
6. Current through it always remains same.	6. The current flowing through it decreases (varies).
7. The length of the feeder is usually longer than that of the distributor.	7. The length of the distributor is usually longer than that of the distributor.
8. The line conductors, which transmit a electrical power from the substation to the distributor, is called a feeder or feeder.	8. The line conductors, which transmit the electrical power from the substation to the receiving main conductor, is called a distributor.

1 Mark for each of any two points = 2 Marks

2. Draw the simple arrangements for radial distribution system.
Ans:
Arrangements for Radial Distribution for R, S, T, A, C, Systems Respectively:



2 Marks

3. State any two advantages of ACVR conductors.

Ans:
Advantages of ACVR Conductors:

- The mechanical strength of the ACVR conductor is high.
- The tensile strength of the ACVR conductor is high.

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- Higher conductivity due to the steel wires, which increases the safety margins of the ACVR conductors.
Due to the highest mechanical strength, better weight capacity and high tensile strength.
ACVR conductors can be used for medium and long spans and needs less support.
Low weight and convenient design.
Due to the greater diameter of ACVR conductors a much higher volume steel can be obtained causing the advantages on high as well as extra high voltage overhead lines.
It reduces the weight of the conductor in use and the conductor installation cost.
ACVR cables are mechanically strong. The lightweight of aluminum contributes to efficient installation and the easy maintenance of the system.
The cost of setting up ACVR conductors used overhead line is low. At the same time, the flexibility to change the system is easy.
They are highly flexible and the bending performance of such conductors is more than satisfactory.
They are suitable for both overhead transmission and distribution line installation (overhead).
ACVR conductors are of good long life.
The ACVR conductors are highly corrosion resistant. They are suitable for use in the humid environments where there have been without corrosion in overhead and machine installations.
They are of low cost as well as ACVR conductors.
They are of low cost as well as ACVR conductors.
- Attempt any THREE of the following:
"The steel wires are to be transmitted at high voltage". Justify this statement.
Ans:
Justification of Why Electrical Power is to be Transmitted at High Voltage?
Generally long distance transmission lines are designed to operate at high voltage because of the following characteristics / advantages / reasons:
1. Reduction in size of conductor on carrying of conductor material and its cost.
2. It is more economical in terms of:
a) low voltage in terms of:
i) length of the line in miles
ii) resistance per conductor in ohms
iii) capacity of conductor material
b) low current in terms of:
i) resistance per conductor in ohms
ii) length of the line in miles
Total power loss = $P_{loss} = I^2 R = I^2 \times \frac{\rho L}{A}$
where P_{loss} is power loss, I is current, R is resistance, ρ is resistivity, L is length, A is area.

12 Marks

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