



Important Instructions to candidates:

- The answers should be submitted by day twenty and on Monday morning at point on the model answer scheme.
- The model answer and the answer scheme for candidates must carry that the candidate they try to answer the corresponding item of the candidate.
- The candidate answer must be grammatically, spelling errors should not be given more importance than approach for solution formulae 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 answer any more for numerical problems. In some cases, the answer of correct value may vary and there may be some difference in the candidate's answer and model answer.
- In case of some questions candidate may give the answer by independent on part of candidate of relevant answer based on candidate's knowledge.
- For project/assignment/longhand program, candidate may be given any other program based on independent concept.

- Q. No. Mark (Q. No.) Answer Marking Scheme
1. Attempt any FIVE of the following: 10 Marks
- a) Write the standard transmission voltages in Nigeria.
Answer: Standard Transmission Voltages in Nigeria: 110KV, 132KV, 161KV, 220 KV, 330 KV, 500 KV and 765 KV.
- b) Define: i) Transmission Efficiency and Voltage regulation in Transmission line.
Answer: 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.
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 receiving end voltage, current and power factor when V_S is sending end voltage, current and power factor 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.
Voltage regulation = $\frac{\text{No-load receiving end voltage} - \text{Full-load receiving end voltage}}{\text{Full-load receiving end voltage}} \times 100$
where: V_R is receiving end voltage and V_S is sending end voltage.



- c) State any four factors on which skin effect depends.
Answer: 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).
- d) Give any two limitations of EHVAC in a distribution system.
Answer: 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 is more to be transmitted of EHVAC through underground cable, there there is limitation on the length of cable due to charging current, e.g. for 400KV line limitation 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 system. 17. Cost of equipments installed with EHVAC system is much more.
- e) Compare feeder and distribution on any two parameters.
Answer: Comparison between feeder and distribution:

No. No.	Feeder	Distribution
1.	It is high voltage receiving substation and distribution transformer.	It is low voltage distributed in transformer substation & consumer.
2.	It is generally a 3-phase, 3-wire.	It is generally a 3-phase, 4-wire.



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 110KV / 220KV / 330KV.	3. Distribution voltage is 400V/660V for 3-phase systems and 240V/120V for single phase systems.
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 continuously.
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 conductor.
8. The line conductors, which transmit a electrical power from the substation to the distributor, is called a feeder or line.	8. The line conductors, which transmit the electrical power from the substation to the receiving station conductor, is called a distributor.

1 Mark for each of any two points = 2 Marks

- b) Draw the simple arrangements for radial distribution system.
Answer: Arrangements for Radial Distribution for R, S, T, A, C, Systems Respectively:



2 Marks

- c) State any two advantages of ACVR conductors.

Advantages of ACVR Conductors:

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



9. Higher conductivity due to the steel wires, which increases the safety margin of the ACVR conductors.
10. Due to the highest mechanical strength, better weight capacity and high tensile strength.
11. ACVR conductors can be used for medium and long spans and needs no support.
12. Low weight and convenient design.
13. Due to the greater diameter of ACVR conductors a much higher voltage stress can be obtained without the advantages on high as well as extra high voltage overhead lines.
14. Because of high tensile strength the sag of the conductors is low and the conductor installation is convenient.
15. ACVR cables are mechanically strong. The high tensile of aluminum contributes to stiffness (modulus) and the easy maintenance of the system.
16. The cost of setting up ACVR conductors used overhead line is low. At the same time, the flexibility is high.
17. They are highly flexible and the bending performance of such conductors is more than conductors.
18. They are suitable for both overhead transmission and distribution line installation (conductors).
19. ACVR conductors are of good long life.
20. The ACVR conductors are highly corrosion resistant. They are suitable for use in the humid environment where there have been without corrosion in overhead and undersea installations.
21. They are of low cost, which is very low with ACVR conductors.
22. They are suitable for both overhead transmission and distribution line installation (conductors).
23. ACVR conductors are of good long life.
24. The ACVR conductors are highly corrosion resistant. They are suitable for use in the humid environment where there have been without corrosion in overhead and undersea installations.
25. They are of low cost, which is very low with ACVR conductors.

1 Mark for each of any two advantages = 2 Marks

2. Attempt any THREE of the following: 12 Marks
- a) "The power is to be transmitted at high voltage". Justify this statement.
Answer: 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:
Let:
 P = power transmitted in watts
 V = line voltage in volts
 $\cos \phi$ = power factor of the load
 L = length of the line in meters
 R = resistance per conductor in ohms
 ρ = resistivity of conductor material

$$\text{Load current } I_L = \frac{P}{V \cos \phi}$$

$$\text{Resistance per conductor } R = \frac{\rho L}{A}$$

$$\text{Total power loss } P_L = 3 I_L^2 R = 3 \left(\frac{P}{V \cos \phi} \right)^2 \frac{\rho L}{A} = \frac{3 P^2 \rho L}{V^2 \cos^2 \phi A}$$

Scope Electric Summer Answer Key

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Montoya, Milton Fernando Montoya
Pardo, Iñigo del Guayo Castiella, Iñigo
del Guayo**

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The Electrical Engineer, 1902 *Electrical Installation Record*, 1926 **The Internet of Things** Olivier Hersent, David Boswarthick, Omar Elloumi, 2011-12-19 An all in one reference to the major Home Area Networking Building Automation and AMI protocols including 802.15.4 over radio or PLC 6LoWPAN RPL ZigBee 1.0 and Smart Energy 2.0 Zwave LON BACnet KNX ModBus mBus C12 and DLMS COSEM and the new ETSI M2M system level standard In depth coverage of Smart grid and EV charging use cases This book describes the Home Area Networking Building Automation and AMI protocols and their evolution towards open protocols based on IP such as 6LoWPAN and ETSI M2M The authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine to machine communication for mission critical applications based on the next generation machine to machine ETSI M2M architecture The authors demonstrate using the example of the smartgrid use case how the next generation utilities by interconnecting and activating our physical environment will be able to deliver more energy notably for electric vehicles with less impact on our natural resources Key Features Offers a comprehensive overview of major existing M2M and AMI protocols Covers the system aspects of large scale M2M and smart grid applications Focuses on system level architecture interworking and nationwide use cases Explores recent emerging technologies 6LoWPAN ZigBee SE 2.0 and ETSI M2M and for existing technologies covers recent developments related to interworking Relates ZigBee to the issue of smartgrid in the more general context of carrier grade M2M applications Illustrates the benefits of the smartgrid concept based on real examples including business cases This book will be a valuable guide for project managers working on smartgrid M2M telecommunications and utility projects system engineers and developers networking companies and home automation companies It will also be of use to senior academic researchers students and policy makers and regulators *Renewable Energy Based Solutions* Tanay Sıdkı Uyar, Nader Javani, 2022-11-01 This book discusses the main renewable energy resources along with the current challenges that make it difficult to achieve 100% decarbonized energy sources It presents the perspectives of international expert authors in the field giving readers a multi dimensional view of the subject The book explores numerous approaches for a smooth transition from fossil fuels to renewable energies including those based on engineering methods as well as policies strategies and social perceptions It presents several case studies and examples from industry showcasing the potential role of renewable sources and their challenges The inclusion of both established methods and cutting edge developments will make this book of interest to academics industry professionals policy makers and graduate students alike *The Electrical Journal*, 1906 *Resilience in Energy, Infrastructure, and Natural Resources* Law Catherine Banet, Hanri Mostert, LeRoy Paddock, Milton Fernando Montoya, Milton Fernando Montoya Pardo, Iñigo del Guayo Castiella, Iñigo del Guayo, 2022 Through a mix of thematic chapters and case studies this book offers an analytical approach to developing legal responses which will ensure the needs of present and future generations can be met through energy

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