Program: **T.E Electrical Engineering**

Curriculum Scheme: **Revised 2016 (Rev -2016)**

Examination: Third Year **Semester V**

Course Code :- **EEDLO-5013** and Course Name :- **U.E.E.**

Time: 1hour Max. Marks: 50

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Note to the students:- All the Questions are compulsory and carry equal marks .

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|---|---|
| Q1. | Low power factor means _____KVA rating for the given load. |
| Option A: | Small |
| Option B: | Medium |
| Option C: | Higher |
| Option D: | Moderate |
| | |
| Q2. | Which equipment can be used in factories, plants to improve power factor? |
| Option A: | Shunt capacitors |
| Option B: | Inductors |
| Option C: | Choke bank |
| Option D: | Resistance bank |
| | |
| Q3. | Active power is define as_____. |
| Option A: | VIsinΦ |
| Option B: | VIcosΦ |
| Option C: | VIsecΦ |
| Option D: | VIcotΦ |
| | |
| Q4. | Long distance railways use which of the following electrical supply? |
| Option A: | 200V D.C |
| Option B: | 25KV single phase A.C |
| Option C: | 25 KV two phase A.C |
| Option D: | 25 KV three phase A.C |
| | |
| Q5. | Quadrilateral speed time curve pertains to which of the following service? |
| Option A: | Main line service |
| Option B: | Urban service |
| Option C: | Sub-urban service |
| Option D: | Urban and suburban service |
| | |
| Q6. | Which of the following method is used to control speed of 25kv,50Hz single phase traction |
| Option A: | Reduced current method |

| | |
|---|---|
| Option B: | Tap changing transformer method |
| Option C: | series parallel motor operation |
| Option D: | Rheostatic method |
| | |
| Q7. | Normal value of adhesion friction is _____. |
| Option A: | 0.12 |
| Option B: | 0.25 |
| Option C: | 0.4 |
| Option D: | 0.65 |
| | |
| Q8. | Electric traction in comparison to other traction systems has the advantage of_____. |
| Option A: | Higher acceleration & braking retardation |
| Option B: | Pollution Free |
| Option C: | Better speed control |
| Option D: | All of them |
| | |
| Q9. | Electric locomotives run faster on curved routes in comparison to steam locomotives because_____. |
| Option A: | Its centre of gravity is lower than that of steam locomotives |
| Option B: | Its centre of gravity is higher than that of steam locomotives |
| Option C: | It has no centre of gravity |
| Option D: | None of the above |
| | |
| Q10. | Specific energy consumption is minimum in _____ services. |
| Option A: | Urban |
| Option B: | Suburban |
| Option C: | Main line |
| Option D: | Equal for all type of |
| | |
| Q11. | Series motor is not suited for traction duty due to which of the following account? |
| Option A: | Less current drain on heavy load torque |
| Option B: | Current surges after switch off supply |
| Option C: | Self relieving property |
| Option D: | Commutating property at heavy load |
| | |
| Q12. | Power for lighting in passenger coach in a long distance electric train is provided _____. |
| Option A: | Directly through overhead electric line |
| Option B: | Through individual generator in bogie & batteries |
| Option C: | Through rails |
| Option D: | Through locomotive |
| | |
| Q13. | During _____the speed of train decreases. |
| Option A: | Running |
| Option B: | Free Running |
| Option C: | Coasting |

| | |
|---|---|
| Option D: | Initial acceleration |
| | |
| Q14. | Which method of braking the motor armature remains connected to supply and draws power from it producing torque? |
| Option A: | Rheostatic braking |
| Option B: | Regenerative braking |
| Option C: | Plugging |
| Option D: | Mechanical braking |
| | |
| Q15. | In tramways which of the motor is used |
| Option A: | DC shunt motor |
| Option B: | D.C series motor |
| Option C: | A.C three phase motors |
| Option D: | A.C single phase capacitor start motor |
| | |
| Q16. | The preferable method of speed control of linear induction motor is _____. |
| Option A: | Variable flux control |
| Option B: | PAM Control |
| Option C: | Variable frequency & constant voltage control |
| Option D: | Variable frequency & variable voltage control |
| | |
| Q17. | Which of the following method has maximum power factor? |
| Option A: | Arc heating |
| Option B: | Dielectric heating |
| Option C: | Induction heating |
| Option D: | Resistance heating |
| | |
| Q18. | Heat transfer by condition will not occur when_____. |
| Option A: | Bodies are kept in vacuum |
| Option B: | Bodies are immersed in water |
| Option C: | Bodies exposed to radiation |
| Option D: | When temperature of two bodies are identical |
| | |
| Q19. | Ajax Watt furnace is started when _____. |
| Option A: | It is filled below core level |
| Option B: | It is filled above core level |
| Option C: | It is fully empty |
| Option D: | It is heated at high temperature |
| | |
| Q20. | Motor-Generator set for D.C arc welding has generator of _____. |
| Option A: | Series type |
| Option B: | Shunt type |
| Option C: | Differentially compound type |
| Option D: | Level compound type |
| | |
| Q21. | The welding load is always_____. |
| Option A: | Continuous but varying |

| | |
|---|---|
| Option B: | Continuous and constant |
| Option C: | Intermittent |
| Option D: | Continuous |
| | |
| Q22. | In Ultrasonic welding the frequency range is generally |
| Option A: | 5 to 10 KHz |
| Option B: | 20 to 60 KHz |
| Option C: | 100 to 150 KHz |
| Option D: | Above 150 KHz |
| | |
| Q23. | Which one is used as refrigerant? |
| Option A: | Ammonia |
| Option B: | Chloride |
| Option C: | Solid carbon dioxide |
| Option D: | Sulphur |
| | |
| Q24. | The performance of refrigeration system is expressed by the term_____. |
| Option A: | Tonne of refrigeration performance |
| Option B: | Co-efficient of Performance |
| Option C: | Ice Refrigeration |
| Option D: | Efficiency performance |
| | |
| Q25. | From commercial and domestic point of view which is most important system_____. |
| Option A: | Vapour absorption |
| Option B: | vapour compression |
| Option C: | Evaporation system |
| Option D: | Refrigeration |

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| **Question** | **Correct Option**<br>**(Enter either 'A' or 'B' or 'C' or 'D')** |
|---|---|
| Q1. | C |
| Q2. | A |
| Q3. | B |
| Q4 | B |
| Q5 | D |
| Q6 | B |
| Q7 | B |
| Q8. | D |
| Q9. | A |
| Q10. | C |
| Q11. | B |
| Q12. | B |
| Q13. | C |
| Q14. | C |
| Q15. | B |
| Q16. | C |
| Q17. | D |

| | |
|---|---|
| Q18. | D |
| Q19. | B |
| Q20. | D |
| Q21. | C |
| Q22. | B |
| Q23. | A |
| Q24. | B |
| Q25. | B |