ಅಂತಿಮ ಪರೀಕ್ಷೆ Final Examination QP set code- A

N	A	M	E		O	F		T	H	E		S	T	U	D	E	N	T		
U	H	S	2	4	H	E						College code					0			

Time: 10:30 -11:00 (30 mins.) ತೋ.ವಿ.ವಿ.ಬಾ.
Total Marks: 20
Part – A Question paper (2 pages)   FEG-111, 3(1+2).

✓ Write the Correct Part-A Question paper Set Code in OMR sheet.
✓ Please return Part-A QP after 30 min of start of examination to the invigilator and Collect while leaving the exam hall.

Q.I. Select the most correct answer A/B/C/D for the following questions.

15 x 0.5 mark = 7.5 Marks

1. When the load is removed,........motor will run at the highest speed.
   (a)Shunt   ***(b) series***   (c) cumulative compound   (d) Diff. Compound
2. The armature torque of a dc motor is a function of its..........
   (a) Pole flux   (b) armature current   (c) speed   ***(d) both pole flux &Ia***
3. A dc series motor is best suited for driving
   (a)Lathes   (b) heavy machine tools ***(c) cranes& Hoists***   (d) Shear & punche
4. In a DC generator, the effect of armature reaction on the main pole flux is to
   (a) reduce it   (b) distort it   (c) reverse it   ***(d) both reduce &distort it.***
5. The .... Generator has poorest voltage regulation.
   (a)Series   (b) shunt   (c)compound   (d) over compound
6. The voltage regulation of an over compound dc generator is always......
   (a)Positive   ***(b) Negative***   (c) zero   (d) High
7. Transformer core are laminated in order to
   (a) Simplify its construction   ***(b) minimise eddy current loss***
   (c) reduce cost   (d) reduce hysteresis loss
8. A transformer has a negative voltage regulation when the load p.f is ...
   (a)Zero   (b) unity   ***(c) leading pf***   (d) Lagging pf
9. The frequency of voltage generated by an alternator having 4poles and rotating at1800 rpm is......Hz
   (a)60   (b) 1200   (c) 120   (d) 450
10. A 50Hz alternator will run at the greatest speed.if it is wound for.....poles.
    (a)8   (b) 6   (c) 4   ***(d)2***
11. The current flowing through a resistor is 0.5A. when a potential difference of 10V is applied. Then, the Value of resistance is .
    (a) 5   (b) 10   ***(c) 20***   (d) 100
12. MCB stands for
    (a) Miniature Circuit Breaker   (b) Maximum Current Breaker
    (c) Minimum Circuit Breaker   (d) Minute Current Breaker
13. RMS value stands for
    (a) Root Major Square   (b) Root Minor Square
    (c) Root Mean Square   (d) Root Median Square
14. The internal resistance of an ideal voltammeter is...
    (a) Infinity   (b) zero   (c) One   (d) ten
15. The internal resistance of an ideal Ammeter is...
    (a) Infinity   (***b) zero***   (c) One   (d) ten

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Q.II. Mention TRUE (T /FLASE /F) for the following statements in OMR sheet

15x 0.5 mark = 7.5 Marks

16. The Unit of Resistance is ohms. TRUE
17. Circuit Breakers are used to protect circuit. TRUE
18. The transformer is a static device. TRUE
19. An Electric motor converts mechanical energy into electrical energy TRUE
20. A DC motor uses alternating current to operate. TRUE
21. An Induction motor is a type of synchronous motor. FALSE
22. Overheating is a common cause of electric motor failure., FALSE
23. The speed of motor can be controlled by varying the voltage applied.
24. An electric charge may be either positive or negative.TRUE
25. A generator works on the principle of electromagnetic induction.. TRUE
26. An induction motor is so called because its operation is on the phenomon of Eddy Current
    FALSE
27. The torque of an induction motor is proportional to srqt V   FALSE
28. The power factor at which the transformer operates depends upon the p.f TRUE
29.In a star connected system, the phase angle difference between line& phase voltage is 30 degree
    TRUE
30. The length of the conductor is doubled and its c area of cross-section is also doubled, then the
    resistance will remain unchanged TRUE

Q.III. Match column A with column B for correct answer.

10 x 0.5 mark = 05 Marks

Q.No	Column A		Column B	ANSWERS
31	Motor	A	Insulator	J
32	Generator	B	Magnetic field	I
33	Transformer	C	Watt-hour	H
34	Fuse	D	Hz	G
35	Voltmeter	E	Ohms	F
36	Resistance	F	Measuring instrument	E
37	Frequency	G	Protective Device	D
38	Unit of Energy meter	H	Transfers electric energy	C
39	Weber	I	Mechanical to Electrical	B
40	Rubber	J	Electrical to Mechanical	A

END OF PART – A QUESTION PAPER 24nd March 2025

Student's Signature…………………………….. Invigilator's signature……………………