

electrical module 3 past papers

Answer FIVE questions choosing THREE questions from section A and TWO questions from section B in the answer booklet provided.

Maximum marks for each part of a question are as indicated.

Candidates should answer the questions in English.

Take: $\epsilon_0 = 8.85 \times 10^{-12} \text{ F/M}$

This paper consists of 6 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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Turn over

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2601/304

SECTION A: MACHINES AND UTILIZATION

Answer THREE questions from this section.

1. (a) (i) State two reasons for keeping the air gap of a three phase induction motor short. (5 marks)
(ii) List three reasons for skewing rotor slots of a three phase squirrel cage motor. (5 marks)
1. To reduce crawling, 2. To prevent cogging, 3. To prevent magnetic locking of rotor and stator.
- (b) With aid of a labelled block diagram, explain the cascade connection speed control method of two induction motors. (6 marks)
- (c) A 6 pole and 8 pole induction motors are connected in cumulative cascade. The frequency of the 8 pole motor is 5 Hz. Determine the:
(i) Combined speed of the cascade on 50 Hz supply; (9 marks)
(ii) Slip of each machine. (2 marks)
2. (a) State the two significances of slip in a three phase induction motor. (2 marks)
- (b) A stepper motor has a step angle of 3° and a stepping frequency of 3800 pulses/second. Determine the:
(i) Resolution (6 marks)
(ii) Number of steps to make 30 revolutions;
(iii) Number of revolutions per second.
- (c) (i) Explain the stages of obtaining a d.c supply for electric traction to a series motor from a three phase supply; (12 marks)
(ii) With aid of a speed-time curve, explain the duty cycles on a train operating on a mains service line.
 $E_g = V - I_a R_A + I_a R_{sc}$ $R = \frac{240}{50} = 4.8$ $R_{sc} = 8 - 0.5 = 7.5$
3. (a) (i) With reference to electric drives, distinguish between active and passive loads. (5 marks)
 $E_g = 240 - (15 \times 0.5) + (1.7 \times 1.6)$
- (ii) State three factors which affect the mechanical choice of a motor for a particular electric drive. (5 marks)
- type of load, - power rating, - nature of load, - nature of a.c or d.c
- (b) With aid of a labelled circuit diagram, explain the regenerative braking of alternating current (a.c) electric motors. (5 marks)
- (c) State two assumptions made while deriving the expression for heating and cooling of an electric motor. (2 marks)



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The motor is run as a generator. The kinetic energy of the motor is converted into electrical energy and returned to the supply. The field winding is disconnected from the supply and the field current is increased by exciting it from another source. As a result, induced EMF exceeds the supply voltage and the motor is powered.

Module One Electrical Principles Past Paper

B Lingard



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Electrical & Electronics Abstracts ,1997 Proceedings of the 7th International Conference on Advances in Energy Research Manaswita Bose,Anish Modi,2020-10-17 This book presents selected papers from the 7th International Conference on Advances in Energy Research ICAER 2019 providing a comprehensive coverage encompassing all fields and aspects of energy in terms of generation storage and distribution Themes such as optimization of energy systems energy efficiency economics management and policy and the interlinkages between energy and environment are included The contents of this book will be of use to researchers and policy makers alike *English Mechanic and Mirror of Science* ,1913 **Artificial Intelligence Abstracts** ,1985 Proceedings ,1998 **The Electrician** ,1925 *OFC 2002* ,2002 English Mechanic and World of Science ,1913 *Journal of Engineering Education* ,2007 Trends in Control and Measurement Education D.P. Atherton,D.A. Linkens,2014-06-28 This volume is the published Proceedings of selected papers from the IFAC Symposium Swansea 11 13 July 1988 where a forum was provided for discussion of the latest advances and techniques in the education of control and instrument engineers Seven major topics were covered to aid lecturers in understanding developing and presenting systems engineering control and measurement as a subject to undergraduate and postgraduate students The teaching of real time computer control as a topic and laboratory experiments for both continuous and discrete systems were discussed as was process control with the emphasis on providing the student with engineering experience by using scaled down equipment which would teach practical skills Included in the Proceedings are papers on measurement and instrumentation an area felt to be neglected within academic instruction The development of software tools for systems design within systems engineering was included as was the exchange of teaching packages and methods between academics and the education curriculum of systems engineering within developing countries These Proceedings will prove to be a useful up to date guide and reference source for all lecturers and professors involved in curriculum development and the teaching of control and measurement in systems engineering Transactions ,1970 **Energy Research Abstracts** ,1983
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