

Answer key

UNIT 1

- 1 1 comes 5 made
2 's studying 6 'm living
3 like 7 play
4 arrived 8 'm going to look
- 2 1 was born 5 speaks
2 emigrated 6 studied
3 was 7 'm doing
4 has 8 'm going
- 3 1 are doing 5 teaches
2 got 6 helps
3 're staying 7 love
4 comes 8 're going to train
- 2 1 I speak
2 does it taste come
3 are you doing
4 's having
5 does this word mean
6 don't smoke
7 went
8 did you start
9 didn't do
10 are you going to
- 3 1 At the weekend I usually go swimming.
2 Are you enjoying the party?
3 We can't play tennis because it's raining.
4 How many sisters do you have?
5 I **don't** understand what you're saying.
6 What are you doing tonight?
7 What time did you get home last night?
8 Last weekend I saw some friends and we had a meal.
9 I'm going to see my friends tonight. We're going to the cinema.
10 I love English food. It's wonderful!
- 4 1 Is it raining?
2 Are they at school?
3 Are they learning English?
4 Are you tired?
5 Was she at home last night?
6 Am I right?
7 Was he born in 1960?
8 Are you going to see Jim?
- 5 1 Does she come from France?
2 Do they live in a flat?
3 Do they take sugar in tea?
4 Do I speak English well?
5 Did she watch a film last night?
6 Did it start at 8:00?
7 Do you want to go home?
8 Does he work hard?
- 6 1 a 2 d 3 i 4 g 5 j
6 b 7 a 8 c 9 h 10 f

- 7 1 How 6 Why
2 What 7 Whose
3 Where 8 Which
4 Who 9 Whom
5 What 10 Why
- 8 1 What did you get for your last birthday?
2 Who is your English teacher?
3 Where are your parents at the moment?
4 When did you last go to the cinema?
5 Why are you learning English?
6 How do you come to school?
7 How many brothers and sisters do you have?
- 9 1 What time did you get up this morning?
2 What colour is your hair?
3 How far is it from your house to the town centre?
4 How tall are you?
5 What sort of music do you like?
6 How much does a hamburger usually cost?
7 How often do you go swimming?
8 What size shoes do you take?
9 How long does your English lesson last?
10 What newspaper do you read?
- 10 1 1 It's a simple sort of English that people all over the world can understand.
2 88 per cent of people.
3 A. Where are you flying to?
B. To Paris. And you?
A. I'm going to New York on business.
B. What will you bring?
A. At four tomorrow in the afternoon.
B. Do you have any children?
A. Yes, one boy and two girls. And you?
B. No. Only a girlfriend.
A. OK. Have a good journey.
B. Thanks. And you.
4 It's not a real language. It's a simple language or 'English for' that everyone can understand. It only has 1,500 words and grammar isn't important.
5 A sort of English - Globish.
6 Because they didn't speak in simple English.
- 2 1 a January
2 an inventor
3 the main feature
4 colleagues
5 native speakers of English
- 3 1 Who did Nerzine work for?
2 Does he speak good English?
3 How many words does Globish have?
4 When did Nerzine have the idea of Globish?
5 What is he writing at the moment?

- 11 1 1 mobile
2 diary
3 scissors
4 hairbrush
5 watch
6 chewing gum
7 wallet
8 mouse
- 2 1 know
2 buy
3 write
4 see
5 hear
- 3 1 two sons
2 know
3 write
4 buy
5 see
- 4 1 answer 5 neighbour
2 married 6 Wednesday
3 daughter 7 eighty
4 knife 8 night
- 12 1 1 3 2 1 3 2
2 1 five 5 train
2 party 6 miss
3 match 7 course
4 far 8 leaves
- 13 1 I come from Portugal.
2 Where does she come from?
3 I'm 27 years old.
4 What did you go to bed last night?
5 What did you do last night?
6 Carlos spends too much money on designer clothes.
7 I studied English for two years at school.
8 "Whose bag is this?" It's mine.
9 "Where are you going on holiday this year?" I'm going to Miami in August.
10 He has long blond hair and blue eyes.
- 14 1 1 True.
2 False. She moved to London two months ago.
3 False. She has a Scottish accent.
4 False. She teaches science at a school in the centre of London.
5 False. She has green eyes and red hair.
6 True.
7 False. She loves living in London.
8 False. Her perfect man has dark hair.
- 2 1 Why is Cathy calling the agency? To meet new people and find a boyfriend.
2 When did she start her job? Six weeks ago.
3 What does she like doing at the weekend? Going to the country and going walking.

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R Bogdan



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to reduce the torque ripples in the developed model the characteristics of speed torque back emf are effectively monitored

and analyzed optimized design of permanent magnet brushless dc motor for ceiling fan applications

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a four quadrant or multiple quadrant operation is required in industrial as well as commercial applications these applications require both driving and braking i.e motoring and generating capability some of these applications include electric traction systems cranes and lifts cable laying winders and engine test loading systems

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speed control of a machine is the most vital and important part in any industrial organization this paper is designed to develop a four quadrant speed control system for a dc motor using microcontroller the motor is operated in four quadrants i.e clockwise counter clockwise forward brake and reverse brake

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paper proposes a way to govern the rate and route control of a dc motor with the help of a 4 quadrant dc dc chopper the speed under the base velocity may be controlled by way of armature voltage manage technique mosfets are used for the switching operation of the chopper the gates of those mosfets are given pwm

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the four quadrant chopper block represents a four quadrant controlled chopper for converting a fixed dc input to a variable dc output the block contains two bridge arms each bridge arm each has two switching devices options for the type of

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3 four quadrant operation of dc motor four quadrant operation or mode of any dc motor means that machine operate in four quadrants they are forward braking mode forward motoring mode reverse braking or stop mode and reverse motoring mode a motor operates in two modes motoring and braking a motor drive capable of

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this paper gives a control for three phase brushless dc bldc motor in all four quadrant operation the control system in this paper is capable to detect and identify the rotor position by sensor signal 1 in this paper behaviour of bldc motor is studied in all four quadrant operations through simulation model

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drive electric vehicle in previous work capable of operating in such driving conditions and offers several types of chopper operation modes such as driving and reverse regenerative and resistive braking generator mode field weakening

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor s generated low voltage up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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sep 11 2019 four quadrants drive dc chopper for series motor full size image this modes of operation can be controlled by ai controllers such as expert system fuzzy logic self tuning fuzzy 10 11 12 13 14 15 16 neural network as well as anfis but this paper focused only on the circuit operation of generator mode

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four quadrant operation of dc motor means that the machine operates in four quadrants they are forward braking forward motoring reverse motoring and reverse braking a motor operates in two modes motoring and braking

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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aug 16 2021 the four quadrant operation of the motor can be described as follows quadrant i in the first quadrant the developed power by the motor is positive thus the motor operates in motoring mode and converts electrical energy into mechanical energy therefore the operation of the motor in first quadrant is called forward motoring quadrant ii

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the control of bldc motor in four quadrants is very crucial in this paper bldc motor is controlled in all the four quadrants

without any wastage of power during regenerative braking period power generated is being stored in the chargeable battery

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four quadrant operation of a pmc motor 5 1 objective the objective of this activity is to analyze the four quadrant operation of a permanent magnet dc pmc motor this activity was derived from those developed and distributed by the university of minnesota umn 5 2 review of four quadrant operation

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