

MINISTRY OF EDUCATION

BELKHIR S SCHOOL 2012 - 2013 LEVEL: 4th year ARTS 1+2 TEACHER: HAJJI A

FULL TERM TEST TWO

2 HOURS

	//E : NAME :		GRADE/20
⊦ <u>Read</u>	ing comprehens	sion. (15 marks)	
1. Complete t	he table below with	the appropriate informat	ion from the text. (3 marks)
The helicopter	WEIGHT	MAXIMUM SPEED	CHARACTERISTICS
GEN H-4			
	pilot the helicopter.		
d) no security	measures were exe	cuted in the helicopter.	
	e following question		CEN 114.2
- what were (of the first example of the	: GEN - H4 :
4. Cross out t Patient	he adjective that can enthusiastic	nnot describe Yanagisawa gifted egoistic	Gennai. (1 mark)
			c: (2 marks)
E Find words			
a) interested	• . ,		
b) hand writir	• . ,		

7. Give a personal justified answer to the following question.



Do you think that the GEN H-4 ca	an be available for everybody? (1 mark)
I think	because

II- Language. (10 marks)

1. circle the correct option. (3 marks)

Biotechnology, or biotech, will have the biggest impact on our lives in the future. Just as the 19th century saw the (social / medical / industrial) revolution and the 20th century is known as the information age, the 21st century will (be remembering / remember / be remembered) as the biotech era, where working with the human (gene / genetic / genetics) code was commonplace, yet had the power to change society. It will slowly as laboratory advances (lengthen / length / longer) our lifespan and improve the quality of our lives. With a deeper understanding of the body, it is likely that (founders / scientists / physicians) will invent replacement organs, eliminating transplant rejection. The body's own cells will be forced to repair brains' (devastation / drain / mind) by diseases.

2. Fill in the blanks with six words from the box. (3 marks)

migrate – widespread – which – immigrate – because – whose – escape – departure

Write the verbs / words between brackets in the correct tense / form. (4 marks)



III- Writing. (15 marks)

1- Comment on the data on the table below about the growth of mobile phone users in Tunisia. (5 marks)

Figure: Tunisia - Mobile Subscribers and Penetration (2003-2010)

Year-end	Subscriber (millions)	Penetration (%)	Causes
2003	1.91	19.3%	High cost of devices / just one service provider
2006	7.33	72.1%	Many service providers / cheaper technology
2010	10.95	103.4%	A technology for all the generations / frequently used for a lot of purposes

Source: Blycroft Publishing



or offset this phenomenon. Write a newspaper article in which you suggest some possible solutions that can make skilled and talented persons stay in their poor nations. (10 marks)
Evaluation criteria:
- Content:/4
- Language:/4 - Mechanics:/2

GOOD WORK





GEN H-4: The one-man helicopter

"It was the dream of flying like birds that inspired me to create the GEN H-4 and I hope someday it can be used just like a scooter." Said Yanagisawa Gennai, the Japanese engine designer at Zenoa and the inventor of the **GEN H 4**: the world smallest helicopter. Yanagisawa became hooked on making helicopters after turning 50. The 75-year-old man, who runs an electronics equipment company in Matsumoto, central Japan. <u>There</u>, he has created the 75kg one-man aircraft which sets the world record for the smallest helicopter.

Just like many other ideas, the GEN H-4 began in 1985 as a scribble on just another sheet of paper. Yanagisawa, better known as 'Gen' was thinking of ways to use one of his engines. Several years ago while employed at Zenoa, Gen had engineered several two-cycle engines. After 5 years of development on this new engine he had one of the best power to weight ratios available in the world.

Increasing the payload to 65kg by using two engines, the first prototype was completed in 1994 but did not produce enough lift to produce the desired result. This prototype hovered several centimeters above the ground for just a few seconds in addition to being unable to lift fat person. But after poring over books and other materials, including some 50 years old, he managed to solve the technical problems that had been hindering his flight.

The final prototype was finished in 1998. After several testing sessions, the **Boy'**s Dream Helicopter was exhibited at the AERO-SPACE show in Japan. The one man helicopter was highly praised and attracted worldwide attention. The engine was light, powerful and reliable. The **GEN H-4 helicopter** was equipped with a chair, a footrest, a handle bar, two rotors turning in opposite directions to maintain stability and four engines that enable a 30-minute flight with a top speed of about 56 miles per hour. It could be easily controlled by the pilot's left thumb. He has also attached a parachute above the mast just in case. The helicopter was exhibited worldwide in several air fares and it was sold in America and japan for about \$57,140.

Adapted from: www2.gen-corp/genh-4