spring 2015

UČO: 57/PASS 65% **RESULT:** NAME: LISTENING: Listen to a radio programme about <u>cancer treatment</u> and complete the gaps. You will listen twice. 9 1. The purpose of the programme is to spread information about various _METHODS/THERAPIES/OPTIONS/MODES______ to treat cancer. 2. The CANCER/CANCEROUS/ABNORMAL cells differ from healthy cells in that they do not know how to die and they MULITPLY/PROLIFERATE/GROW_____ uncontrollably. 3. Besides CT scans, some other imaging tests usually performed are X-RAY and MRI SCAN . 4. After either type of biopsy done, as mentioned by the speaker, the RECOVERY PROCESS______ is dependent on the type of biopsy. 5. The best type of treatment for cancers without metastases is **SURGERY**_____. 6. <u>LASER THERAPY</u> is the operative procedure which can be done without hospitalization. 7. The outcome of such therapy may not _TAKE /LAST_____long. **ENGLISH IN USE/VOCABULARY** 1 Word formation, 10 An extremely high percentage of RENAL_____ calculi contain calcium. (REN) Losing weight, being active and not smoking can help prevent <u>VASCULAR</u> diseases. (VESSEL) The newest option to ADMINISTER _____ insulin is inhalation. (ADMINISTRATION) The OCCURENCE of pancreatic cancer in smokers is twice than of non-smokers. (OCCUR) Carcinoma of the testes is also called <u>TESTICULAR</u> cancer. (TESTICLE) The time period from infection with HIV to the development of DETECTABLE _____ antibodies in the blood is usually one to three months. (DETECT) An ovarian cyst may develop from a/an UNRUPTURED _____ follicular cyst. (RUPTURE) Genital herpes is a/an INCURABLE_____ (CURE) disease, after you get it you won't get Many _DISORDERS_____ (ORDER) can also affect the male and female reproductive system. 2 Write appropriate terms for the definitions below. 10 _FALLOPIAN TUBE/OVIDUCT/UTERINE TUBE_____ = the tube extending from the upper lateral portion of the uterus that carries the ovum to the uterus GYNECOLOGY/OBSTETRICS/NEONATOLOGY = a medical field specializing in pregnancy, labour and delivery WOMB/UTERUS_____ = the organ that receives the fertilized egg and maintains the developing fetus during pregnancy **EPIDIDYMIS** = coiled tube on the surface of the testis that stores sperm until

ejaculation

HYPOPHISIS/PITUITARY GLAND = a small endocrine gland at the base of					
the brain. The anterior lobe secretes growth hormone and hormones that stimulate other					
glands; the posterior lobe releases ADH and oxytocin manufactured in the hypothalamus.					
<u>ISLETS_OF LANGERHANS</u> = clusters of endocrine cells in the pancreas that					
secrete hormones that regulate sugar metabolism.					
PARATHYROID GLAND = four to six glands on the posterior surface of the					
thyroid. They affect calcium metabolism					
URINE = the fluid excreted by the kidneys. It consists of water, electrolytes,					
urea, other metabolic wastes, and pigment					
RENAL PELVIS = the expanded upper end of the ureter that receives urine					
from the kidney					
3 Fill in the gaps with one missing word. 10					
FILTRATION					
Filtration is the MOVEMENT/PASSING/PASSAGE of water and dissolved					
NUTRIENTS/ELEMENTS/MINERALS/IONS through a membrane from an area					
of higher pressure to an area of lower pressure. In the body, the pressure of blood in the					
capillaries is HIGHER than the pressure of the interstitial fluid, or the fluid					
surrounding the body's cells. Thus, through filtration, blood PLASMA(fluid					
portion of blood) and nutrients such as amino acids, glucose, and vitamins are forced					
through the capillary SYSTEM/NETWORK/MEMBRANE into the surrounding					
interstitial fluid to <mark>B</mark> E used by the cells.					
The pressure of the blood in the glomeruli is higher than in other types of capillaries in the					
body. This high pressure forces plasma, dissolved waste substances, and small proteins out					
of the glomeruli and into the Bowman's capsules. The process is called glomerular filtration.					
Blood cells and larger proteins are TOO/VERY large to be forced out of the					
glomeruli, so they remain in the blood. The pressure in a Bowman's capsule is low and its					
inner membrane is PERMEABLE/SEMI-PERMEABLE/FENESTRATED/POROUS, so the material that filters out					
PERMEABLE/FENESTRATED/POROUS, so the material that filters out					
OF* a glomerulus passes into the capsule. The fluid and material in a Bowman's					
capsule is referred to as renal filtrate, WHICH is very much like blood plasma,					
except it contains very little protein and no blood cells.					
* FILTER STH. OUT OF STH. OR FILTER FROM					
4 Complete the gaps. 4					
Mammography is a radiographic study of the breast used to					
DETECT/REVEAL/SCREEN/FOLLOW/PREVENT/DIAGNOSE breast cancer.					
Prostatectomy is a surgical REMOVAL of the prostate.					
The obstetrician had to finally use FORCEPS/HANDS/STRENGTH/FORCE to pull					
the baby's head out of the birth canal.					
We'll have to make four SUTURES/STITCHES to close the wound on your chin.					
5 Choose the best option. 6					
1 Renal failure may to a need for kidney dialysis.					
A lead B result C occur D cause					
2 Carcinoma of the bladder has been linked to occupational to chemicals, infections and					
<u>-</u>					
smoking.					
A exposing B expose C exposure D exposuring					
3 Testosterone is responsible for the secondary sex characteristic changes in men, which					
include growth of facial hair, growth of pubic hair and of the voice.					
A deep B depth C deepen D deeper					
4 Carcinoma of the prostate is a malignant growth within the prostate gland creating					
pressure on the part of the urethra.					

A upend	B uppish	Cupper	D topper		
5 <mark>An</mark>	too much,	or a deficiency	<mark>7</mark> - too little, of cir	culating hormones causes a	
wide range of medical conditions.					
A excessive	B excessing	C excess	D excessivity		
6 When a hormone is missing, treatment may be by therapy, for example injections					
of insulin.					
A replace	B replacement	C remove	D removal		

READING: Read the following text and decide if the statements below are true or false.

Boosting men's testosterone levels could potentially reduce deaths from heart disease and type 2 diabetes, UK doctors and scientists say.

A team in Sheffield has shown the sex hormone has a "major impact" on the way sugar and fat are handled by the body. At the Endocrine Society's annual meeting, they said low testosterone was common in type 2 diabetes. Experts said the field was being "turned upside down" as testosterone was previously considered a villain. It was thought to explain why men are more prone to heart disease. There are also concerns about the damaging impact of testosterone, as seen in bodybuilders who abuse the hormone.

Fatty issue

Type 2 diabetes is often related to obesity. Piling on the pounds has a negative impact on testosterone as the fat launches a twin attack on the hormone. It releases chemical signals to reduce production and it actively breaks down the hormone into oestrogen. A fifth of people with type 2 have symptoms of low testosterone affecting mood, energy and sexual performance, the researchers said.

Dr Daniel Kelly used testosterone-deficient mice to show that the hormone was heavily involved in how sugar and fat were processed.

With no testosterone, the liver and muscles were less able to take up sugar, and fat was diverted from under the skin to clog up the liver and arteries. Dr Kelly told the BBC News website: "We know men with low testosterone are at greatly increased risk of type 2 diabetes and cardiovascular disease as well." His findings start to explain why, as well as suggest that hormone replacement therapy to restore testosterone to its normal level or "physiological window" could improve health. "It's detrimental to have testosterone levels that are too low, but if we go above the physiological window then there are effects there as well, so it would require careful monitoring," Dr Kelly added.

Massive burden

Prof Hugh Jones, a consultant physician at Barnsley Hospital who was also involved in the work, describes diabetes as the "cancer of the 21st century" that is going to be a "massive" burden on healthcare systems. He said: "What we're trying to show is that testosterone significantly affects the way sugars and fats are used within the body and has a positive effect when you return testosterone to normal. "If studies do show that replacing testosterone to normal is safe, and that is key, then it would increase the lifespan of many men."

The research, however, missed out on half the population. No-one is contemplating testosterone therapy in women as it would lead to masculinisation. How similar biological processes are controlled in women has not yet been uncovered, although a prominent role for oestrogen is suspected.

UNCOVER=REVEAL/SHOW

'Replacement therapy'

Prof Ashley Grossman, an endocrinologist at the University of Oxford, said: "We used to think that testosterone was one of the 'bad guys' and accounted for the adverse metabolic phenotype of men compared to women, and their tendency to more heart disease. "Now the field is turned upside down as testosterone is seen to have majorly positive effects. "However, there is a commercial push for older men to have testosterone replacement therapy, and there is some scepticism among clinicians that this is more financially rather than clinically driven.

"Nevertheless, these data do suggest that very low levels of testosterone in ageing males might not be good."

- 1 Testosterone influences considerably the metabolism of saccharides and lipids. T/F
- 2 The fat affects the levels of the male hormone in two ways. T/F

- 3 20% of people having diabetes 2 experience problems associated with testosterone levels. T/F
- 4 With high levels of testosterone, the body has difficulties processing sugar. T/F
- 5 Testosterone therapy is recommended to women as well. T/F
- 6 It is not known if the metabolism is influenced in women in the same way as in men. T/F
- !7 Testosterone makes men more protected against certain diseases. T/F NOT CLEAR, DEPENDS ON THE LEVELS
- 8 There's a concern that the motivation behind testosterone replacement therapy might be money. T/F