



General Revision For Health sciences Unit one + two + three + four Grade 12 Advance+General

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Innovative Education for a knowledge, Pioneering and Global Society

تعليم ابتكاري لمجتمع معرفي ريادي عالمي



2018
2018
2012

حاصلة على التقييم المدرسي
حاصلة على جائزة مجلس الآباء والمعلمين بفتة المدرسة المتميزة
حاصلة على الاعتماد الأكاديمي

This revision contains:

- 1- The baseline activity questions with their answers.
- 2- The past final exam questions related to this semester only with the answers at the end of this file.
- 3- The skill check questions with their answers.

Tips:

- 1- Relax while studying and have a great faith in Allah.
- 2- Solve the questions without looking at the answers, that way you can discover your own mistakes and weaknesses and fix them.
- 3- Be good to your family and friends.



1. In medical terminology, what is the meaning of the root word 'phleb'?
- a. Stomach
 - b. Vein
 - c. Lungs
 - d. Bones



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حاصلة على الاعتماد الأكاديمي



2. What is the meaning of 'remission'?

- a. A doctor's opinion about how a patient will recover from an illness or injury
- b. When symptoms of a patient's disease get better, but are not cured
- c. A disease that can be spread to other people by germs
- d. A medication that makes someone feel better or become healthy again



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Which of the following is an autoimmune disease?

- a. Multiple sclerosis
- b. Osteoporosis
- c. Hypertension
- d. Gastroenteritis



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Stomach pain, bloating and diarrhoea indicate a problem with which system of the body?

- a. Circulatory system
- b. Respiratory system
- c. Musculoskeletal system
- d. Digestive system



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A patient who has difficulty remembering information, has difficulty concentrating and forgets people's names is showing signs of _____.

- a. Alzheimer's disease
- b. Chron's disease
- c. asthma
- d. multiple sclerosis



Artificial intelligence can be used to read mammograms 30 times faster than humans. How accurate are these readings?

- a. 25% accuracy
- b. 55% accuracy
- c. 80% accuracy
- d. 99% accuracy



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What is a wearable biosensor?

- a. A sensor that can predict when a patient is hungry or needs to use the bathroom
- b. A sensor that monitors health and can measure respiratory rate, body temperature and heart rate
- c. A battery found in smart watches and fitness trackers
- d. A device that uses artificial intelligence to filter out background noise in smart hearing aids

Which of the following can cause a seizure?

- a. Poor nutrition
- b. A fractured wrist
- c. Not doing enough physical activity
- d. Epilepsy

What is anaphylaxis?

- a. An allergen
- b. A mild allergic reaction
- c. A serious allergic reaction
- d. Part of the immune system



In medical terminology, what is the meaning of the root word 'gastr'?

- a. Stomach
- b. Heart
- c. Skin
- d. Fat



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Which of the following medical prefixes means 'between'?

- a. Ab-
- b. Anti-
- c. Inter-
- d. Hypo-



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Name two pieces of information found on a patient's medical record report.

a. _____

b. _____





Arthritis, a disease which causes inflammation of the joints, affects which system of the body?

- a. Musculoskeletal system
- b. Nervous system
- c. Digestive system
- d. Immune system



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What is the function of the respiratory system?

- a. To allow the body to move freely
- b. To transport blood around the body
- c. To fight diseases and infection
- d. To supply oxygen to all parts of the body



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Which of the following best describes an allergic reaction?

- a. Difficulty digesting certain foods
- b. Difficulty breathing which can be controlled by using an inhaler
- c. An immune reaction to something that the body sees as a threat
- d. A disease that causes brain cells to waste away and die



Give one reason why someone may choose to contact a doctor using telemedicine instead of visiting a hospital in person.



One use of the mobile application Alhosn is contact tracing. What is contact tracing?

- a. Keeping a record of all the locations a person has visited
- b. Identifying people who have been in contact with a positive COVID-19 case
- c. The process of downloading a copy of all phone contacts from the user's phone
- d. The system used for booking PCR tests and COVID-19 vaccinations

How is virtual reality used in healthcare?

- a. It can be used to clean up after a surgeon has completed an operation
- b. It can be used to live stream a patient's recovery journey from hospital
- c. It can be used to guide ambulance drivers to the nearest hospital when they collect a casualty
- d. It can allow medical students to perform operations without making real-life mistakes on a human

Which of the following is a sign of stroke?

- a. One side of the face droops
- b. Loss of hearing
- c. The person begins to speak very fast
- d. Swelling of the arms or legs

What should you do if someone has just finished having a seizure?

- a. Check for breathing. If they are still breathing, put them in the recovery position
- b. Do not check for breathing and put them in the recovery position
- c. Put both hands on the casualty's shoulders and shake them until they wake up
- d. Pour some water in their mouth to see if they can drink it

A diabetic episode may happen when a person experiences very low blood glucose. This is known as _____.

- a. Hyperglycaemia
- b. Hypoglycaemia
- c. Hypoallergenic
- d. Hypoactivity

Burns and scalds are caused by different things. Match the following causes to the correct description.

Burns

Scalds

Caused by fire

Caused by boiling
water

Caused by chemicals

Caused by a hot iron

Define each of the following medical terms.

a. Arthritis:

b. Abnormal:

c. Hyperglycaemia:



Explain the link between 5G wireless technology and healthcare.



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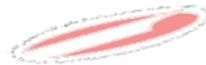
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Past Exam MCQs

Year 2020/2021 - Semester 1 - Final Exam

12 Advanced



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?What is an autoimmune disease

- ☐ .a An immune reaction to a harmful object in the body
- ☐ .b A condition which affects the digestive system
- ☒ .c A condition where the immune system attacks healthy body cells by mistake
- ☐ .d A condition where the immune system attacks unhealthy body cells

Which of the following scenarios should you call an ambulance for immediate medical treatment



A person is cooking and has scalded themselves on hot water. They immediately run their hand under cold water and the skin is slightly red .a



A person has been stung on the leg by a wasp. The bite is itchy, but the casualty is not allergic to wasps .b



A person has eaten some peanuts and their throat has started to swell causing severe difficulty breathing .c



A person is feeling dehydrated and has light yellow urine .d



'Which of the following prefixes means 'against



a. -Anti



b. -Ab



c. -An



d. -Ante

Inn

?What is the main cause of atherosclerosis

- ☐ .a When the cartilage around a joint thins and bones rub together
- ☐ .b When a build up of plaque in the body's arteries blocks blood flow
- ☐ .c When the supply of oxygen to the brain is reduced or stopped completely
- ☐ .d When the immune system attacks the myelin of the nerve cells

?Which of the following best describes a communicable disease



.a A disease that cannot be passed on from person to person



.b A disease that is caused by an individual's lifestyle factors such as lack of exercise



.c A disease that can be spread from person to person



.d A disease that is inherited from parents



?Which of the following suffixes means 'state of or condition

a. genic-



b. sis-



c. logy-



d. itis-



A doctor thinks that their patient will recover on their own without the help of medication. Which of the following medical terms refer to a doctor's opinion about patient recovery



Cure .a



Remission .b



Diagnosis .c



Prognosis .d

?Which of the following best describes a symptom of disease

- ☐ .a Something that stops the disease and makes someone healthy again
- ☐ .b A doctor's opinion about how someone will recover from an illness or injury
- ☐ .c Evidence of an illness that can be seen by others
- ☐ .d A feeling or physical change experienced by a patient

**Fatima experiences tightness in her chest and shortness of breath when
?exercising. Which type of doctor should Fatima visit**



.a Immunologist



.b Orthopaedic surgeon



.c Gastroenterologist



.d Pulmonologist

تع

?Which type of doctor specialises in treating conditions of the digestive system



.a Gastroenterologist



.b Pulmonologist



.c Immunologist



.d Orthopaedic surgeon

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There are different signs and symptoms of each disease. Identify which of the following is a sign of disease



a. Feeling tired



b. Difficulty concentrating



c. Coughing



d. Pain in back

'Identify the meaning of the root word in 'hyperglycaemia

☐

a. Blood

☐

b. Sugar

☐

c. Too high

☐

d. Too low

.Identify the correct spelling of the medical word meaning 'cancer forming



a. Carcingenic



b. Carcinogenic



c. Carcinosis



d. Carcinology

**A patient has been diagnosed with an illness that cannot be cured. What type of
?illness is this**



.a Terminal



.b Prognosis



.c Infectious



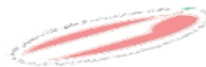
.d Acute



Past Exam MCQs

Year 2020/2021 - Semester 1 - Final Exam

12 General



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?Which of the following are signs and symptoms of a mild allergic reaction



a. Rapid weak pulse



b. Loss of consciousness



c. Severe shortness of breath



d. Swelling of the lips

**Which of the following chronic diseases causes bones to become weak and
porous**



a. Sarcopenia



b. Osteoporosis



c. Osteitis



d. Arthritis

Which disease attacks the protective covering of the nerve cells, causing a disruption in communication between the brain and the rest of the body



.a Multiple sclerosis



.b Parkinson's disease



.c Epilepsy



.d Atherosclerosis

.is something that stops a disease and makes someone healthy again _____



.a A terminal



.b A cure



.c A sign



.d An infection

?When might a diabetic hypoglycaemic episode occur



a. If a person eats all of their meals



b. If a person correctly fuels their body before doing exercise



c. If a person does not use their insulin medication properly



d. All of the above

What emergency medical advice would you give to someone having a hypoglycaemic episode



a. Eat fewer carbohydrates and sugary foods



b. Do some exercise



c. Eat some honey or a sugary snack



d. Take more insulin medication

Your friend is complaining about weakness in their arms. When you ask them what has happened, you notice they have difficulty speaking. What medical emergency is your friend showing signs of



a. A fractured arm



b. A seizure



c. An allergic reaction



d. A stroke

?Which of the following medical prefixes means 'above



.a -Ab



.b -Inter



.c -Ante



.d -Epi

?What is the meaning of the root word 'lipid



.a Vein



.b Fat



.c Cancer



.d Lungs

**In a medical record report, which of the following is recorded under the
?patient's medical history**



.a Medical conditions



.b Temperature



.c Contact information



.d Ethnicity

?What should a person with a severe allergy carry with them at all times



.a Insulin



.b Epinephrine auto-injector



.c Inhaler



.d (Automated external defibrillator (AED

.In medical terminology, the _____ is added to the end of a word



a. prefix



b. combining vowel



c. suffix



d. root word

**During a skiing sports competition, a player has fallen over and is lying on the ground. They have extreme pressure in their back and cannot move their legs.
?What type of injury is described**



a. Allergic reaction



b. Bone fracture in the arm



c. Spinal injury



d. Airway obstruction

?Which of the following is a type of head injury



a. Concussion



b. Scalp wounds



c. Skull fractures



d. All of the above

?What is the meaning of the medical term 'bradycardia



a. Slow heart rate



b. Low blood pressure



c. Normal heartbeat



d. Low blood sugar

?Which of the following is true about combining vowels



a. Combining vowels are used to connect two root words



b. Combining vowels are placed at the end of the word



c. A combining vowel changes the meaning of the word



d. A combining vowel makes a medical term harder to pronounce



Skill Check

Year 2021/2022 - Semester 1

12 Advance + General



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Which of the following suffixes means 'disease or disease process'?

(A)	-aemia
(B)	-itis
(C)	-logy
(D)	-pathy



Which of the following is found at the end of a word?

(A)	Combining vowel
(B)	Prefix
(C)	Suffix
(D)	Root word



Which of the following medical words means 'inflammation of the stomach'?

(A)	Gastrogenic
(B)	Hypergastrism
(C)	Acidosis
(D)	Gastroenteritis





Identify the root word in 'hyperthyroidism'.



Which of the following is a symptom of disease?

- | | |
|-----|-------------------|
| (A) | Pain |
| (B) | Skin rash |
| (C) | Cough |
| (D) | Bruising on hands |





Write the medical word meaning 'cancer forming'.





What is the meaning of the medical suffix ‘-genic’?

- | | |
|-----|-----------------------|
| (A) | Blood condition |
| (B) | Forming or causing |
| (C) | State of or condition |
| (D) | Study of |



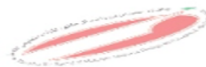


Which of the following is a vital sign?

(A)	Weight
(B)	Respiration rate
(C)	Blood type
(D)	Ethnicity



Which vital sign measures how many times the heart beats per minute?



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Fatima has been told she has bradycardia. What does this mean?

- | | |
|-----|----------------------------|
| (A) | Her heartbeat is slow |
| (B) | She has cancer |
| (C) | Her blood pressure is high |
| (D) | She has inflammation |



Which of the following suffixes means 'blood condition'?

- | | |
|-----|--------|
| (A) | -aemia |
| (B) | -itis |
| (C) | -logy |
| (D) | -pathy |



Which of the following root words means 'heart'?

- | | |
|-----|--------|
| (A) | Arthr |
| (B) | Carcin |
| (C) | Cardi |
| (D) | Derm |



Identify the root word in 'hypoglycaemia'.



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Which of the following is a vital sign?

- | | |
|-----|------------|
| (A) | Ethnicity |
| (B) | Height |
| (C) | Blood test |
| (D) | Pulse |



What is the meaning of the medical prefix 'hypo'?



In a medical record report, a patient's home address and phone number is recorded under _____.

- | | |
|-----|----------------------|
| (A) | medical information |
| (B) | personal information |
| (C) | physical examination |
| (D) | progress report |

Hend was diagnosed with cancer last year. Her cancer is terminal. What does this mean?

- | | |
|-----|---|
| (A) | Her cancer symptoms have improved |
| (B) | The doctor thinks that she will recover from cancer |
| (C) | Her cancer cannot be cured |
| (D) | Her cancer can be spread to other people |

Fill in the blanks.

Medical terminology is the _____ used by medical professionals. It allows health professionals to _____. Medical words are made up of _____, root words and suffixes. _____ is an example of a medical prefix. 'Genic' is a medical _____ which means 'forming or causing'.

a. prefixes b. communicate c. anti d. language e. suffix



Which of the following prefixes means 'before'?

(A)	Ab-
(B)	Ante-
(C)	Intra-
(D)	Brady-





Osteoporosis causes bones to become _____.	
(A)	strong and dense
(B)	weak and porous
(C)	strong and porous
(D)	strong and weak





The nervous system is made up of _____.

- | | |
|-----|------------------------------------|
| (A) | the heart, blood and blood vessels |
| (B) | the mouth, lungs and alveoli |
| (C) | the brain, spinal cord and nerves |
| (D) | bones, muscles and joints |



Which of the following diseases is non-communicable?

- | | |
|-----|-----------------|
| (A) | Diabetes |
| (B) | COVID-19 |
| (C) | Gastroenteritis |
| (D) | Common cold |



Name an acute disease.

Inflammation of the airways is caused by which disease?

- | | |
|-----|---------------------|
| (A) | Multiple sclerosis |
| (B) | Hypertension |
| (C) | Alzheimer's disease |
| (D) | Asthma |



Write one symptom of COVID-19.



Food intolerances are difficult to diagnose because they do not have any symptoms.

- | | |
|-----|-------|
| (A) | True |
| (B) | False |

_____ are the main sign of epilepsy.

- | | |
|-----|-------------------------|
| (A) | Cramps and stomach pain |
| (B) | Chest pains |
| (C) | Seizures |
| (D) | Swollen hands |



Hypertension is also known as _____.



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Who do allergies affect?

- | | |
|-----|-------------------------|
| (A) | Younger people |
| (B) | Older people |
| (C) | More males than females |
| (D) | Anyone |

Which of the following is a sign of disease?	
(A)	Skin rash
(B)	Headache
(C)	Sore throat
(D)	Forgetfulness



Write a definition of a chronic disease.





Which system of the body does a neurologist specialise in treating?





What do arthritis and Alzheimer's disease have in common?

- | | |
|-----|---|
| (A) | They both affect the nervous system |
| (B) | They both cause breathing difficulties |
| (C) | They both mostly affect people over the age of 65 |
| (D) | They are both communicable diseases |



An _____ disease is one where the immune system attacks healthy body cells that it mistakes for unhealthy cells.

(A)	immune
(B)	autoimmune
(C)	automatic
(D)	all over

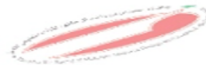


What is the name given to a severe allergic reaction?





What is the name given to a severe allergic reaction?



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Dementia is not a disease; it is a term that describes the symptoms associated with a decline in mental ability.

- | | |
|-----|-------|
| (A) | True |
| (B) | False |



Which system of the body is affected by atherosclerosis?

- | | |
|-----|------------------------|
| (A) | The circulatory system |
| (B) | The digestive system |
| (C) | The immune system |
| (D) | The nervous system |





Name one symptom of gastroenteritis.

Which of the following blood pressure readings suggest that the patient has hypertension?

(A)	110/75mmHg
(B)	120/85mmHg
(C)	108/80mmHg
(D)	158/97mmHg



How have advances in medical technology benefited healthcare?

- | | |
|-----|---|
| (A) | They have reduced staff productivity |
| (B) | They have increased patients' recovery time |
| (C) | They have increased the rate of patient diagnosis |
| (D) | They have increased the overall cost of medicine |



Describe one way that virtual reality and augmented reality are currently used within healthcare.





Which of the following describes augmented reality?

- | | |
|-----|---|
| (A) | Changing parts of the real world by adding videos or graphics to it |
| (B) | Simulating the real world by creating an entirely digital environment |
| (C) | Using a robotic device to perform operations on real-life patients |
| (D) | A computer's ability to think, behave and learn like a human |





Name one smart medical device or wearable and describe how it can benefit health.



Which smart medical device can filter out background noise or focus on specific sound sources?

- | | |
|-----|-----------------------|
| (A) | Smart watches |
| (B) | Smart hearing aids |
| (C) | Wearable ECG monitors |
| (D) | Wearable biosensors |



What is a benefit of using health-related apps and e-services?

- | | |
|-----|---|
| (A) | Users must take time out of their day to attend a healthcare facility |
| (B) | Applications are complex and time consuming to use |
| (C) | Personal information is shared with private companies |
| (D) | Patients can access e-services from anywhere in the world |





What is a mammogram?

- (A) A wearable biosensor that measures heart rate
- (B) A surgical robot which can complete operations alone
- (C) A screening tool used to detect breast cancer
- (D) The UAE's most popular health-related app of 2021





Should a patient who is showing mild symptoms of COVID-19 use telemedicine services? Explain your answer.



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Why is contact tracing important in stopping the spread of COVID-19?

- | | |
|-----|---|
| (A) | It allows patients to receive medical care without attending a medical facility |
| (B) | It can identify people who have been in contact with an infected person |
| (C) | It can identify people who have been vaccinated against COVID-19 |
| (D) | It allows patients to track any signs or symptoms of COVID-19 digitally |



Improvements in technology used in healthcare have _____.

- | | |
|-----|--|
| (A) | reduced the speed of patient diagnosis |
| (B) | increased patient recovery times |
| (C) | helped people to live longer |
| (D) | increased the risk of injuries |





Describe one benefit of using telemedicine services.

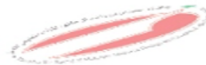


Which of the following is a benefit of artificial intelligence used in healthcare?

- (A) It increases the risk of spreading or contracting infectious diseases
- (B) It can review diagnostic tests faster and more accurately than humans
- (C) It increases a patient's healthcare costs
- (D) All of the above



List **two** pieces of health information that can be tracked using a fitness tracker or smart watch.



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حاصلة على التقييم المدرسي
حاصلة على جائزة مجلس الآباء والمعلمين بفتة المدرسة المتميزة
حاصلة على الاعتماد الأكاديمي

How can virtual reality be used in healthcare?

- (A) To detect diseases faster and more accurately than humans
- (B) To track people who have been in contact with COVID-19
- (C) To allow doctors to practice operations without making real-life mistakes
- (D) To arrange medical appointments without talking to a person



Why is 5G important in delivering healthcare?



Which of the following cases may be treated via telemedicine?

- (A) A person who has a cough
- (B) A person who is in anaphylactic shock
- (C) A person who is needs a blood test
- (D) A person who has a life-threatening condition

Answer key

+

Key Notes

1. In medical terminology, what is the meaning of the root word 'phleb'?
- a. Stomach
 - ☒ b. Vein
 - c. Lungs
 - d. Bones

2. What is the meaning of 'remission'?

- a. A doctor's opinion about how a patient will recover from an illness or injury
- b. When symptoms of a patient's disease get better, but are not cured**
- c. A disease that can be spread to other people by germs
- d. A medication that makes someone feel better or become healthy again

Which of the following is an autoimmune disease?

- ☒ a. Multiple sclerosis
- b. Osteoporosis
- c. Hypertension
- d. Gastroenteritis



Stomach pain, bloating and diarrhoea indicate a problem with which system of the body?

- a. Circulatory system
- b. Respiratory system
- c. Musculoskeletal system
- ☒ d. Digestive system



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A patient who has difficulty remembering information, has difficulty concentrating and forgets people's names is showing signs of _____.

- a. Alzheimer's disease
- b. Chron's disease
- c. asthma
- d. multiple sclerosis



Artificial intelligence can be used to read mammograms 30 times faster than humans. How accurate are these readings?

- a. 25% accuracy
- b. 55% accuracy
- c. 80% accuracy
- ☒ d. 99% accuracy



What is a wearable biosensor?

- a. A sensor that can predict when a patient is hungry or needs to use the bathroom
- ☒ b. A sensor that monitors health and can measure respiratory rate, body temperature and heart rate
- c. A battery found in smart watches and fitness trackers
- d. A device that uses artificial intelligence to filter out background noise in smart hearing aids

Which of the following can cause a seizure?

- a. Poor nutrition
- b. A fractured wrist
- c. Not doing enough physical activity
- ☒ d. Epilepsy

What is anaphylaxis?

- a. An allergen
- b. A mild allergic reaction
- c. A serious allergic reaction**
- d. Part of the immune system

In medical terminology, what is the meaning of the root word 'gastr'?

- a. Stomach
- b. Heart
- c. Skin
- d. Fat

Which of the following medical prefixes means 'between'?

- a. Ab-
- b. Anti-
- ☒ c. Inter-
- d. Hypo-

Name two pieces of information found on a patient's medical record report.

1. Personal information
- a. 2. Medical history
3. Medical complaint
- b. 4. Physical examination results
5. Test results and diagnosis
6. Treatment plan and progress report

Arthritis, a disease which causes inflammation of the joints, affects which system of the body?

- a. Musculoskeletal system
- b. Nervous system
- c. Digestive system
- d. Immune system



What is the function of the respiratory system?

- a. To allow the body to move freely
- b. To transport blood around the body
- c. To fight diseases and infection
- ☒ d. To supply oxygen to all parts of the body





Which of the following best describes an allergic reaction?

- a. Difficulty digesting certain foods
- b. Difficulty breathing which can be controlled by using an inhaler
- ☒ c. An immune reaction to something that the body sees as a threat
- d. A disease that causes brain cells to waste away and die



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حاصلة على الاعتماد الأكاديمي

Give one reason why someone may choose to contact a doctor using telemedicine instead of visiting a hospital in person.

- ⦿ Coughs and colds
- ⦿ Asthma
- ⦿ Allergies
- ⦿ Headache and fever
- ⦿ Muscle pain
- ⦿ Joint and back pain
- ⦿ Skin problems
- ⦿ Minor burns
- ⦿ Obesity
- ⦿ Mental illness

One use of the mobile application Alhosn is contact tracing. What is contact tracing?

- a. Keeping a record of all the locations a person has visited
- ☒ b. Identifying people who have been in contact with a positive COVID-19 case
- c. The process of downloading a copy of all phone contacts from the user's phone
- d. The system used for booking PCR tests and COVID-19 vaccinations

How is virtual reality used in healthcare?

- a. It can be used to clean up after a surgeon has completed an operation
- b. It can be used to live stream a patient's recovery journey from hospital
- c. It can be used to guide ambulance drivers to the nearest hospital when they collect a casualty
- d. It can allow medical students to perform operations without making real-life mistakes on a human**

Which of the following is a sign of stroke?

- ☒ a. One side of the face droops
- b. Loss of hearing
- c. The person begins to speak very fast
- d. Swelling of the arms or legs

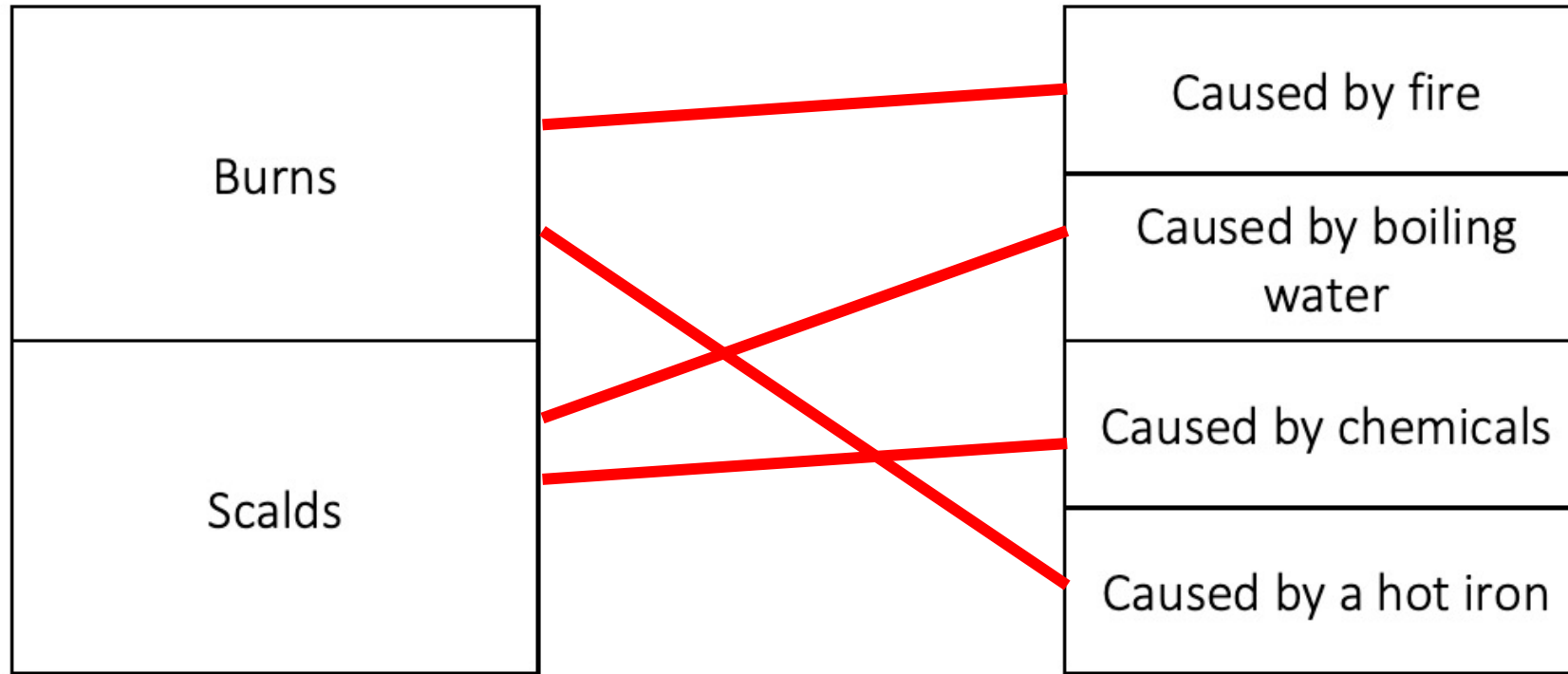
What should you do if someone has just finished having a seizure?

- a. Check for breathing. If they are still breathing, put them in the recovery position
- b. Do not check for breathing and put them in the recovery position
- c. Put both hands on the casualty's shoulders and shake them until they wake up
- d. Pour some water in their mouth to see if they can drink it

A diabetic episode may happen when a person experiences very low blood glucose. This is known as _____.

- a. Hyperglycaemia
- ☒ b. Hypoglycaemia
- c. Hypoallergenic
- d. Hypoactivity

Burns and scalds are caused by different things. Match the following causes to the correct description.



Define each of the following medical terms.

a. Arthritis:

It is inflammation in the Joints.

b. Abnormal:

Away from normal. Not normal.

c. Hyperglycaemia:

Too much sugar in the blood.

Explain the link between 5G wireless technology and healthcare.

5G is the fifth generation of cellular wireless technology. It has been widely available in the UAE since 2019. 5G can offer strong connection power and fast speeds that have the ability to transform how healthcare is delivered.

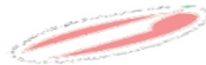
Sometimes doctors need to make extremely fast decisions, or they need access to up-to-date information, they can benefit greatly from 5G. Providing diagnoses could be faster, transfer of large files, images and records would also be much quicker using 5G.



Past Exam MCQs

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12 Advanced



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حاصلة على الاعتماد الأكاديمي

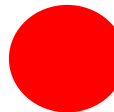
?What is an autoimmune disease



a. An immune reaction to a harmful object in the body



b. A condition which affects the digestive system



c. A condition where the immune system attacks healthy body cells by mistake



d. A condition where the immune system attacks unhealthy body cells

Which of the following scenarios should you call an ambulance for immediate medical treatment



A person is cooking and has scalded themselves on hot water. They immediately run their hand under cold water and the skin is slightly red .a



A person has been stung on the leg by a wasp. The bite is itchy, but the casualty is not allergic to wasps .b

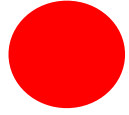


A person has eaten some peanuts and their throat has started to swell causing severe difficulty breathing .c



A person is feeling dehydrated and has light yellow urine .d

?Which of the following prefixes means 'against



a. -Anti



b. -Ab



c. -An



d. -Ante

Inn

?What is the main cause of atherosclerosis

- ☐ .a When the cartilage around a joint thins and bones rub together
- ☒ .b When a build up of plaque in the body's arteries blocks blood flow
- ☐ .c When the supply of oxygen to the brain is reduced or stopped completely
- ☐ .d When the immune system attacks the myelin of the nerve cells

?Which of the following best describes a communicable disease



.a A disease that cannot be passed on from person to person



.b A disease that is caused by an individual's lifestyle factors such as lack of exercise



.c A disease that can be spread from person to person



.d A disease that is inherited from parents

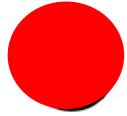


?Which of the following suffixes means 'state of or condition

a. genic-



b. sis-



c. logy-



d. itis-



A doctor thinks that their patient will recover on their own without the help of medication. Which of the following medical terms refer to a doctor's opinion about patient recovery



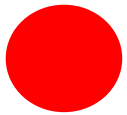
Cure .a



Remission .b



Diagnosis .c



Prognosis .d

Common medical terms

Acute

An illness that lasts for a short time, less than three months.

Chronic

A disease or illness that lasts three months or more.

Cure

Something (such as a drug or medical treatment) that stops disease and makes someone healthy again.

Diagnosis

This is when a medical professional identifies the disease or illness that a patient has.

Infectious

A disease that can be spread to other people by germs.

Prognosis

A doctor's opinion about how someone will recover from an illness or injury.

Remission

When the symptoms of the patient's disease get better (but are not cured).

Sign

Evidence of an illness that can be seen by others, such as a skin rash or a cough.

Symptom

A feeling or physical change experienced by a patient, such as pain.

Terminal

Having an illness that cannot be cured.

Treatment

Something that deals with a disease or injury to make someone feel better or become healthy again.

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?Which of the following best describes a symptom of disease

- ☐ .a Something that stops the disease and makes someone healthy again
- ☐ .b A doctor's opinion about how someone will recover from an illness or injury
- ☐ .c Evidence of an illness that can be seen by others
- ☒ .d A feeling or physical change experienced by a patient

**Fatima experiences tightness in her chest and shortness of breath when
?exercising. Which type of doctor should Fatima visit**



.a Immunologist



.b Orthopaedic surgeon



.c Gastroenterologist



.d Pulmonologist

تع



Further information

Medical specialists

Medical doctors provide care and treatment to sick and injured patients. A doctor can practice general medicine, where he or she treats all types of illnesses.

They can also complete advanced training and education in a specific field of medicine to become a medical specialist.

Here are some medical specialists and the different body systems that they focus on.

Orthopaedic surgeons are healthcare professionals who specialise in the skeletal system including bones and joints.

Neurologists are specialist doctors who have trained in the diagnosis and treatment of nervous system disorders, including diseases of the brain, spinal cord, nerves, and muscles.

Pulmonologists are doctors that have specialised knowledge and skills in the diagnosis and treatment of conditions of the respiratory system.

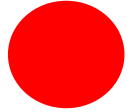
Gastroenterologists are experts on the digestive system, including how it works, and the diseases and problems that can occur in it.

Cardiologists are doctors that specialise in the diagnosis and treatment of diseases of the circulatory system, especially those relating to the heart.

Immunologists are experts in diagnosing, treating, and managing asthma, all types of allergies and other diseases of the immune system.



?Which type of doctor specialises in treating conditions of the digestive system



.a Gastroenterologist



.b Pulmonologist

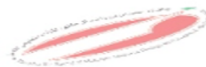


.c Immunologist



.d Orthopaedic surgeon

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حاصلة على الاعتماد الأكاديمي



There are different signs and symptoms of each disease. Identify which of the following is a sign of disease



a. Feeling tired



b. Difficulty concentrating



c. Coughing



d. Pain in back

'Identify the meaning of the root word in 'hyperglycaemia



.a Blood



.b Sugar



.c Too high



.d Too low

.Identify the correct spelling of the medical word meaning 'cancer forming



a. Carcingenic



b. Carcinogenic



c. Carcinosis

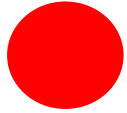


d. Carcinology

Example	Word meaning
leukaemia	cancer of the blood
carcinogenic	cancer forming
hyperthyroidism	a condition where the thyroid is overactive
arthritis	inflammation of the joints
biology	study of the body
osteoporosis	condition of the bones
neuropathy	a disease of the nervous system

Example	Word meaning
anaesthetic	without pain or sensation
abnormal	away from normal or not normal
antibacterial	to fight against bacteria
antenatal	before the birth of a baby
bradycardia	slow heartbeat
epidermis	upper layer of the skin
hypoglycaemia	too little sugar in the blood
hypotension	low blood pressure
intercellular	between the cells
intravenous	within the veins
tachycardia	fast heart rate

**A patient has been diagnosed with an illness that cannot be cured. What type of
?illness is this**



a. Terminal



b. Prognosis



c. Infectious



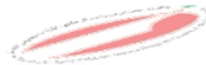
d. Acute



Past Exam MCQs

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حاصلة على الاعتماد الأكاديمي

?Which of the following are signs and symptoms of a mild allergic reaction



a. Rapid weak pulse



b. Loss of consciousness



c. Severe shortness of breath



d. Swelling of the lips

**Which of the following chronic diseases causes bones to become weak and
porous**



a. Sarcopenia



b. Osteoporosis

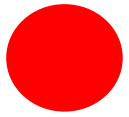


c. Osteitis



d. Arthritis

Which disease attacks the protective covering of the nerve cells, causing a disruption in communication between the brain and the rest of the body



.a Multiple sclerosis



.b Parkinson's disease



.c Epilepsy



.d Atherosclerosis

.is something that stops a disease and makes someone healthy again _____



.a A terminal



.b A cure



.c A sign



.d An infection

?When might a diabetic hypoglycaemic episode occur



a. If a person eats all of their meals



b. If a person correctly fuels their body before doing exercise



c. If a person does not use their insulin medication properly



d. All of the above

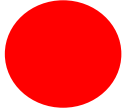
What emergency medical advice would you give to someone having a hypoglycaemic episode?



a. Eat fewer carbohydrates and sugary foods



b. Do some exercise



c. Eat some honey or a sugary snack



d. Take more insulin medication

Your friend is complaining about weakness in their arms. When you ask them what has happened, you notice they have difficulty speaking. What medical emergency is your friend showing signs of



a. A fractured arm



b. A seizure



c. An allergic reaction



d. A stroke

?Which of the following medical prefixes means 'above



.a -Ab



.b -Inter



.c -Ante

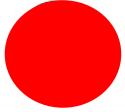


.d -Epi

'What is the meaning of the root word 'lipid



.a Vein



.b Fat

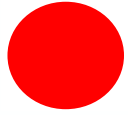


.c Cancer



.d Lungs

**In a medical record report, which of the following is recorded under the
?patient's medical history**



.a Medical conditions



.b Temperature



.c Contact information



.d Ethnicity

?What should a person with a severe allergy carry with them at all times



.a Insulin



.b Epinephrine auto-injector



.c Inhaler



.d (Automated external defibrillator (AED

Treatment for allergies

Preventing allergic reactions can be done by avoiding things that cause the reaction. For example, if someone is allergic to cats, they should not touch them. If someone is allergic to nuts, they should not eat any food containing nuts.

Medications can reduce the immune system reaction and ease symptoms. These are called antihistamines.

If a person has a severe allergy to something, they might carry an adrenaline auto-injector. This can save their life if they are experiencing anaphylaxis. You will learn how to use an adrenaline auto-injector later this term.

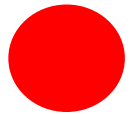
.In medical terminology, the _____ is added to the end of a word



a. prefix



b. combining vowel



c. suffix



d. root word

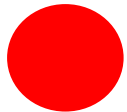
**During a skiing sports competition, a player has fallen over and is lying on the ground. They have extreme pressure in their back and cannot move their legs.
?What type of injury is described**



a. Allergic reaction



b. Bone fracture in the arm



c. Spinal injury



d. Airway obstruction

?Which of the following is a type of head injury



a. Concussion



b. Scalp wounds

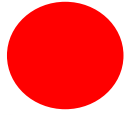


c. Skull fractures



d. All of the above

'What is the meaning of the medical term 'bradycardia



a. Slow heart rate



b. Low blood pressure



c. Normal heartbeat



d. Low blood sugar

?Which of the following is true about combining vowels



a. Combining vowels are used to connect two root words



b. Combining vowels are placed at the end of the word



c. A combining vowel changes the meaning of the word



d. A combining vowel makes a medical term harder to pronounce



Skill Check

Year 2021/2022 - Semester 1

12 Advance + General



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حاصلة على الاعتماد الأكاديمي

Which of the following suffixes means 'disease or disease process'?

(A)	-aemia
(B)	-itis
(C)	-logy
(D)	-pathy



Which of the following is found at the end of a word?

(A)	Combining vowel
(B)	Prefix
(C)	Suffix
(D)	Root word

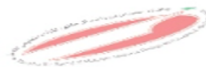
Which of the following medical words means 'inflammation of the stomach'?

(A)	Gastrogenic
(B)	Hypergastrism
(C)	Acidosis
(D)	Gastroenteritis



Identify the root word in 'hyperthyroidism'.

Thyroid



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حاصلة على الاعتماد الأكاديمي



Which of the following is a symptom of disease?

- | | |
|-----|-------------------|
| (A) | Pain |
| (B) | Skin rash |
| (C) | Cough |
| (D) | Bruising on hands |



Write the medical word meaning 'cancer forming'.

Carcinogenic





What is the meaning of the medical suffix ‘-genic’?

- | | |
|-----|-----------------------|
| (A) | Blood condition |
| (B) | Forming or causing |
| (C) | State of or condition |
| (D) | Study of |



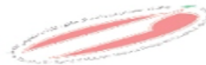
Which of the following is a vital sign?

(A)	Weight
(B)	Respiration rate
(C)	Blood type
(D)	Ethnicity



Which vital sign measures how many times the heart beats per minute?

Pulse rate



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حاصلة على الاعتماد الأكاديمي

Fatima has been told she has bradycardia. What does this mean?

- | | |
|-----|----------------------------|
| (A) | Her heartbeat is slow |
| (B) | She has cancer |
| (C) | Her blood pressure is high |
| (D) | She has inflammation |



Which of the following suffixes means 'blood condition'?

- | | |
|-----|--------|
| (A) | -aemia |
| (B) | -itis |
| (C) | -logy |
| (D) | -pathy |





Which of the following root words means 'heart'?

- | | |
|-----|--------|
| (A) | Arthr |
| (B) | Carcin |
| (C) | Cardi |
| (D) | Derm |



Identify the root word in 'hypoglycaemia'.

Glyc



2018
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Which of the following is a vital sign?

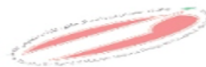
- | | |
|-----|------------|
| (A) | Ethnicity |
| (B) | Height |
| (C) | Blood test |
| (D) | Pulse |





What is the meaning of the medical prefix 'hypo'?

Too low



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In a medical record report, a patient's home address and phone number is recorded under _____.

(A)	medical information
(B)	personal information
(C)	physical examination
(D)	progress report

Hend was diagnosed with cancer last year. Her cancer is terminal. What does this mean?

- | | |
|------------|---|
| (A) | Her cancer symptoms have improved |
| (B) | The doctor thinks that she will recover from cancer |
| (C) | Her cancer cannot be cured |
| (D) | Her cancer can be spread to other people |

Fill in the blanks.

Medical terminology is the language used by medical professionals. It allows health professionals to Communicate. Medical words are made up of prefixes, root words and suffixes. Anti is an example of a medical prefix. 'Genic' is a medical suffix which means 'forming or causing'.

a. prefixes b. communicate c. anti d. language e. suffix

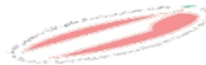


Which of the following prefixes means 'before'?

(A)	Ab-
(B)	Ante-
(C)	Intra-
(D)	Brady-



Osteoporosis causes bones to become _____.	
(A)	strong and dense
(B)	weak and porous
(C)	strong and porous
(D)	strong and weak



The nervous system is made up of _____.

- | | |
|------------|------------------------------------|
| (A) | the heart, blood and blood vessels |
| (B) | the mouth, lungs and alveoli |
| (C) | the brain, spinal cord and nerves |
| (D) | bones, muscles and joints |

Which of the following diseases is non-communicable?

(A)	Diabetes
(B)	COVID-19
(C)	Gastroenteritis
(D)	Common cold



Name an acute disease.

- COVID-19
- Common cold
- Influenza (flu)
- Gastroenteritis (stomach bug)
- Pneumonia



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Inflammation of the airways is caused by which disease?

- | | |
|------------|---------------------|
| (A) | Multiple sclerosis |
| (B) | Hypertension |
| (C) | Alzheimer's disease |
| (D) | Asthma |

Write one symptom of COVID-19.

- Loss of taste
- Loss of smell
- Dry cough
- Fever
- Tiredness
- Headache
- Aches and pains
- Sore throat

Food intolerances are difficult to diagnose because they do not have any symptoms.

- | | |
|-----|-------|
| (A) | True |
| (B) | False |

Food intolerances are difficult to diagnose as the symptoms are similar to many other digestive conditions.

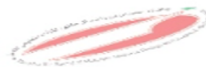
_____ are the main sign of epilepsy.

- | | |
|------------|-------------------------|
| (A) | Cramps and stomach pain |
| (B) | Chest pains |
| (C) | Seizures |
| (D) | Swollen hands |



Hypertension is also known as _____.

High blood pressure



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Who do allergies affect?

- | | |
|------------|-------------------------|
| (A) | Younger people |
| (B) | Older people |
| (C) | More males than females |
| (D) | Anyone |

Which of the following is a **sign** of disease?

- | | |
|-----|---------------|
| (A) | Skin rash |
| (B) | Headache |
| (C) | Sore throat |
| (D) | Forgetfulness |

Write a definition of a chronic disease.

- A disease that lasts a long time
- A disease that lasts three months or longer
- A disease that lasts for the rest of a person's life



Which system of the body does a neurologist specialise in treating?

The nervous system





What do arthritis and Alzheimer's disease have in common?

- (A) They both affect the nervous system
- (B) They both cause breathing difficulties
- (C)** They both mostly affect people over the age of 65
- (D) They are both communicable diseases



An _____ disease is one where the immune system attacks healthy body cells that it mistakes for unhealthy cells.

(A)	immune
(B)	autoimmune
(C)	automatic
(D)	all over

What is the name given to a severe allergic reaction?

Anaphylaxis

Dementia is not a disease; it is a term that describes the symptoms associated with a decline in mental ability.

- | | |
|-----|-------|
| (A) | True |
| (B) | False |



Which system of the body is affected by atherosclerosis?

- | | |
|-----|------------------------|
| (A) | The circulatory system |
| (B) | The digestive system |
| (C) | The immune system |
| (D) | The nervous system |



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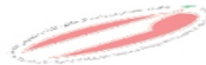
Name one symptom of gastroenteritis.

- Watery diarrhoea
- Cramps and stomach pain
- Nausea
- Vomiting
- Muscle aches
- Headache
- Fever



Which of the following blood pressure readings suggest that the patient has hypertension?

(A)	110/75mmHg
(B)	120/85mmHg
(C)	108/80mmHg
(D)	158/97mmHg



How have advances in medical technology benefited healthcare?

- | | |
|-----|---|
| (A) | They have reduced staff productivity |
| (B) | They have increased patients' recovery time |
| (C) | They have increased the rate of patient diagnosis |
| (D) | They have increased the overall cost of medicine |

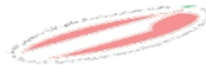
Describe one way that virtual reality and augmented reality are currently used within healthcare.

- Medical training – students and doctors can learn how to perform complex operations without the risk of making real-life mistakes
 - Robotic surgery – human surgeons can use VR to control robotic devices that perform high-precision surgeries with lower risk
- Mental health treatment – AR and VR can be used to place patients with mental health conditions in a safe and calming environment



Which of the following describes augmented reality?

- | | |
|-----|---|
| (A) | Changing parts of the real world by adding videos or graphics to it |
| (B) | Simulating the real world by creating an entirely digital environment |
| (C) | Using a robotic device to perform operations on real-life patients |
| (D) | A computer's ability to think, behave and learn like a human |



Name one smart medical device or wearable and describe how it can benefit health.

- Fitness tracker/smart watch – they allow people to keep track of their health and can provide fitness guidance
- Smart hearing aids – they help people who have hearing difficulties to filter out background noise or to focus on specific sound sources

Wearable ECG monitor – they track heart rhythm and rate and can detect or alert the user when their heartrate is abnormal

Which smart medical device can filter out background noise or focus on specific sound sources?

- | | |
|-----|-----------------------|
| (A) | Smart watches |
| (B) | Smart hearing aids |
| (C) | Wearable ECG monitors |
| (D) | Wearable biosensors |

What is a benefit of using health-related apps and e-services?

- | | |
|-----|---|
| (A) | Users must take time out of their day to attend a healthcare facility |
| (B) | Applications are complex and time consuming to use |
| (C) | Personal information is shared with private companies |
| (D) | Patients can access e-services from anywhere in the world |



What is a mammogram?

- (A) A wearable biosensor that measures heart rate
- (B) A surgical robot which can complete operations alone
- ☒ (C) A screening tool used to detect breast cancer
- (D) The UAE's most popular health-related app of 2021



Should a patient who is showing mild symptoms of COVID-19 use telemedicine services? Explain your answer.

- Yes, if the patient visited a medical facility they could pass COVID-19 to other people
- Yes, mild symptoms are non-emergency and can be managed at home without the need to visit a medical facility

Why is contact tracing important in stopping the spread of COVID-19?

- | | |
|-----|---|
| (A) | It allows patients to receive medical care without attending a medical facility |
| (B) | It can identify people who have been in contact with an infected person |
| (C) | It can identify people who have been vaccinated against COVID-19 |
| (D) | It allows patients to track any signs or symptoms of COVID-19 digitally |



Improvements in technology used in healthcare have _____.

- | | |
|-----|--|
| (A) | reduced the speed of patient diagnosis |
| (B) | increased patient recovery times |
| (C) | helped people to live longer |
| (D) | increased the risk of injuries |



Describe one benefit of using telemedicine services.

- It allows patients to receive medical treatment from a distance
 - It allows patients and doctors to speak to each other from a distance
- Many non-emergency cases can be treated at home

Which of the following is a benefit of artificial intelligence used in healthcare?

- (A) It increases the risk of spreading or contracting infectious diseases
- ☒ (B) It can review diagnostic tests faster and more accurately than humans
- (C) It increases a patient's healthcare costs
- (D) All of the above

List **two** pieces of health information that can be tracked using a fitness tracker or smart watch.

- Measuring heart rate
- Tracking workouts
- Sleep tracking
- Measuring step count
- Measuring blood oxygen level
- Taking an ECG

How can virtual reality be used in healthcare?

- (A) To detect diseases faster and more accurately than humans
- (B) To track people who have been in contact with COVID-19
- ☒ (C) To allow doctors to practice operations without making real-life mistakes
- (D) To arrange medical appointments without talking to a person



Why is 5G important in delivering healthcare?

It offers a strong connection power and fast speeds which makes it faster to transfer large files and records



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Which of the following cases may be treated via telemedicine?

- ☒ (A) A person who has a cough
- (B) A person who is in anaphylactic shock
- (C) A person who is needs a blood test
- (D) A person who has a life-threatening condition



The End

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