

AGA KHAN UNIVERSITY EXAMINATION BOARD

SECONDARY SCHOOL CERTIFICATE

CLASS X EXAMINATION

MAY 2015

General Science Paper I

Time: 40 minutes Marks: 30

INSTRUCTIONS

1. Read each question carefully.
2. Answer the questions on the separate answer sheet provided. DO NOT write your answers on the question paper.
3. There are 100 answer numbers on the answer sheet. Use answer numbers 1 to 30 only.
4. In each question there are four choices A, B, C, D. Choose ONE. On the answer grid black out the circle for your choice with a pencil as shown below.

Correct Way		Incorrect Ways	
1	<input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D	1	<input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D
		2	<input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D
		3	<input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D
		4	<input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D

Candidate's Signature

5. If you want to change your answer, ERASE the first answer completely with a rubber, before blacking out a new circle.
6. DO NOT write anything in the answer grid. The computer only records what is in the circles.

1. Heart diseases and obesity can be caused by poor diet.

Which of the following diets is CORRECTLY linked with the condition caused by it?

	Heart Disease	Obesity
A	Low fibre diet	High protein diet
B	Low energy diet	Low fibre diet
C	High saturated fat diet	High energy diet
D	High protein diet	High fibre diet

2. From the given food items, the best source of protein and iron is

- A. meat.
- B. bread.
- C. citrus fruits.
- D. fresh vegetables.

3. Which of the following is NOT a recommended first aid given to someone who has been bitten by a snake?

- A. Apply artificial respiration
- B. Wash the wound with water
- C. Apply a band above the bite
- D. Press the wound to stop the blood-flow

4. Sucrose, glucose and cellulose are classified under

- A. fats.
- B. proteins.
- C. vitamins.
- D. carbohydrates.

5. All of the following factors cause obesity EXCEPT

- A. over eating.
- B. lack of exercise.
- C. more mental work.
- D. less physical work.

6. A disease which is caused by the hormonal disorder of insulin is called

- A. polio.
- B. scurvy.
- C. diabetes.
- D. night blindness.

7. After vaccination, memory cells develop that can lead to a rapid response if the same organism is encountered by the body again. Which of the following is CORRECT about the person who has gone through the above process?

- A. His body is protected by birth.
- B. He has been treated for the disease.
- C. He has received acquired immunity.
- D. The germs will not enter his body again.

8. Which of the following pairs of diseases is caused by viruses?

- A. Typhoid and tetanus
- B. Aids and poliomyelitis
- C. Tuberculosis and cholera
- D. Small pox and diphtheria

9. Which of the following are caused by cigarette smoking?

- A. AIDS and cancer
- B. Asthma and measles
- C. Influenza and hepatitis
- D. Cancer and heart disease

10. Which of the following parts of a human body is infected because of smoking?

- A. Skin
- B. Lungs
- C. Kidneys
- D. Gall bladder

11. Which of the following sets of medicines includes one analgesic and one antibiotic?
- A. Caffeine and opium
 - B. Penicillin and heroin
 - C. Alcohol and nicotine
 - D. Aspirin and penicillin
12. All of the following contribute to the greenhouse effect EXCEPT
- A. methane.
 - B. oxygen gas.
 - C. water vapours.
 - D. carbon dioxide.
13. Deforestation plays a vital role in environmental degradation.
- Deforestation causes global warming because
- A. it causes shortage of timber.
 - B. trees take in oxygen from the air.
 - C. it removes moisture from the soil.
 - D. trees take in carbon dioxide from the air.
14. A river polluted by sewage waste would have
- A. less garbage.
 - B. more oxygen.
 - C. fewer bacteria.
 - D. more nitrogen compounds.
15. All of the following human activities can have a negative impact on the environment EXCEPT
- A. growing crops and trees.
 - B. hunting animals for pleasure.
 - C. building and expanding towns and cities.
 - D. extracting minerals from the earth's crust.
16. Which of the following layers of atmosphere is the most favourable for life?
- A. Mesosphere
 - B. Troposphere
 - C. Stratosphere
 - D. Thermosphere
17. Which of the following is described as the average weather condition of an area?
- A. Season
 - B. Climate
 - C. Atmosphere
 - D. Environment
18. Acid rain is caused by
- A. dust particles.
 - B. lead particles.
 - C. carbon dioxide.
 - D. sulphur dioxide.
19. The phenomenon through which infra-red rays trapped in a glass room cause an increase in the temperature inside the glass room is called
- A. deforestation.
 - B. ozone depletion.
 - C. ozone protection.
 - D. greenhouse effect.
20. A semiconductor diode is a device made from a single p-n junction.
- All of the following devices use semiconductor diodes EXCEPT
- A. dry cells.
 - B. logic gates.
 - C. photo cells.
 - D. microprocessors.

21. All of the following are communication systems used in information technology EXCEPT
- radio communication system.
 - optical communication system.
 - defence communication system.
 - organisation communication system.

22. Television programmes are broadcasted through the
- communication satellite.
 - astronomical satellite.
 - navigational satellite.
 - research satellite.

23. Which of the following options CORRECTLY describes the ionizing powers of alpha, beta and gamma radiations in increasing order?

	Increasing Order From Left To Right		
A	Alpha particle	Beta particle	Gamma rays
B	Gamma rays	Beta particle	Alpha particle
C	Alpha particle	Gamma rays	Beta particle
D	Beta particle	Gamma rays	Alpha particle

24. Lasers are being used in various fields like scientific research, military, medicine and commerce.

Lasers have been successfully used for all of the following EXCEPT for

- cutting metals.
- finding the depth of the oceans.
- drilling beneath the surface of the earth.
- welding sophisticated parts of machines.

25. Optical fibres are used in all of the following EXCEPT in
- making and transmitting images.
 - enabling doctors to view internal organs.
 - transmitting energy in the form of light pulses.
 - splitting of white light into seven different colours.

26. Which of the following is the largest industry of Pakistan?
- Steel industry
 - Sugar industry
 - Textile industry
 - Fertilizer industry

27. An organisation working for space exploration and atmospheric research, SUPARCO is based in
- Pakistan.
 - China.
 - India.
 - Iran.

28. All of the following are uses of nuclear energy EXCEPT
- navigation of ships in the open sea.
 - irradiation technology to preserve food.
 - tracing underground water resources.
 - diagnosis and therapy of various medical diseases.

29. Which of the following countries was the first to land its mission on the surface of the moon?
- UK
 - USA
 - UAE
 - USSR

30. Which of the following satellites is used for forecasting rain, warning about floods and giving information about cyclones?
- Weather satellite
 - Navigation satellite
 - Astronomical satellite
 - Remote sensing satellite

END OF PAPER