

**AGA KHAN UNIVERSITY EXAMINATION BOARD**

**SECONDARY SCHOOL CERTIFICATE**

**CLASS X EXAMINATION**

**APRIL/ MAY 2017**

**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		1	
		2	
		3	
		4	

**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. Which of the following is an example of a balanced meal?
  - A. Fish and prawns
  - B. Fruits and vegetables
  - C. Meat and vegetable rice
  - D. Chicken broast and chips
2. Meat and beans are rich sources of
  - A. proteins.
  - B. vitamins.
  - C. minerals.
  - D. carbohydrates.
3. Fruits and vegetables are rich sources of
  - A. fats and vitamins.
  - B. minerals and vitamins.
  - C. carbohydrates and fats.
  - D. proteins and carbohydrates.
4. The deficiency of vitamin D causes
  - A. skin cancer.
  - B. night blindness.
  - C. muscular and nervous disorders.
  - D. weakening and deforming of bones.
5. The potential benefit of daily exercise is that it enables one to
  - A. lose extra weight.
  - B. gain ability to talk fast.
  - C. accumulate fats in the body.
  - D. slow down circulation of blood.
6. Ahmed got a deep cut in his hand while repairing the washing machine at home.  
The immediate step to be taken by his family members is to
  - A. provide him first aid.
  - B. call the nearest neighbours.
  - C. give him vitamins rich food.
  - D. report to the nearest police station.
7. Which of the following diseases is caused by bacteria?
  - A. AIDS
  - B. Polio
  - C. Typhoid
  - D. Hepatitis

8. Which of the following parts of a human body is the MOST infected by passive smoking?
- A. Liver
  - B. Lungs
  - C. Kidneys
  - D. Stomach
9. White blood cells are produced inside the
- A. tissue fluid.
  - B. spinal cord.
  - C. bone marrow.
  - D. cartilage tissue.
10. The drugs which relieve pain, promote sleep and cause addiction are called
- A. narcotics.
  - B. sedatives.
  - C. antibiotics.
  - D. hallucinogens.
11. If a person who was hurt in a road accident develops an infection on his wound, he is likely to develop
- A. tetanus.
  - B. diphtheria.
  - C. tuberculosis.
  - D. whooping cough.
12. Which of the following mainly contributes to the depletion of ozone layer?
- A. Nitrous oxide
  - B. Sulphuric acid
  - C. Carbon dioxide
  - D. Chlorofluorocarbons
13. An individual moves to Karachi from a village of Sindh in order to avail a better job opportunity.
- The given scenario depicts
- A. pollution.
  - B. migration.
  - C. population.
  - D. urbanisation.
14. Pakistan is the world's 4<sup>th</sup> largest producer of
- A. apricot.
  - B. oranges.
  - C. mangoes.
  - D. sugar cane.

PLEASE TURN OVER THE PAGE

15. The fraction of petroleum which is used as a fuel for light vehicles such as motor bikes and passenger cars is
- A. petrol.
  - B. diesel.
  - C. grease.
  - D. kerosene oil.
16. Which of the following layers of the atmosphere contains the ozone layer?
- A. Mesosphere
  - B. Stratosphere
  - C. Troposphere
  - D. Thermosphere
17. The hottest layer of the atmosphere is
- A. mesosphere.
  - B. troposphere.
  - C. stratosphere.
  - D. thermosphere.
18. The depletion of the ozone layer causes
- A. an increase in the global temperature.
  - B. the melting of ice caps at the polar regions.
  - C. a decrease in the amount of oxygen in the atmosphere.
  - D. a greater number of ultraviolet radiations to reach the Earth.
19. All of the following are products obtained by refining petroleum EXCEPT
- A. peat.
  - B. grease.
  - C. diesel.
  - D. kerosene oil.
20. A radio system receives signals through
- A. sound waves.
  - B. electrical waves.
  - C. mechanical waves.
  - D. electromagnetic waves.
21. A semi-conductor diode is used in a
- A. motor.
  - B. rectifier.
  - C. generator.
  - D. transformer.

22. Which of the following devices uses magnetic material for the storage of data?
- A. Hard drive
  - B. Flash drive
  - C. Compact disk
  - D. Digital versatile disk
23. All of the following radiations are emitted by a radioactive substance EXCEPT
- A. alpha particles.
  - B. beta particles.
  - C. gamma rays.
  - D. ultraviolet rays.
24. When alpha particles enter into an electric field, they
- A. bend towards the positive pole.
  - B. bend towards the negative pole.
  - C. move in a straight line without deviation.
  - D. bounce back in the same direction to the source.
25. Fractures in bones and teeth can be investigated by using
- A. X-rays.
  - B. ultrasound.
  - C. electrocardiogram.
  - D. computerised tomography scan.
26. Which of the following is used to record any problem in the regularity of heartbeat?
- A. Angiography
  - B. Electrocardiogram
  - C. Magnetic resonance imaging
  - D. Computerized tomography scan
27. The national organisation for space research, atmosphere and exploration of natural minerals in Pakistan is
- A. ISRO.
  - B. RFSA.
  - C. NASA.
  - D. SUPARCO.
28. The first artificial satellite, Badr-I, was sent into space to
- A. locate gold reservoirs.
  - B. enhance digital communication.
  - C. calculate the real land field area.
  - D. note the variation in temperature.

29. Pakistan established many nuclear power plants to
- A. purify sea water.
  - B. produce electricity.
  - C. make nuclear weapons.
  - D. diagnose genetic diseases.
30. The name of the first artificial satellite sent by United of Soviet Socialist Republics (USSR) into the space was
- A. Badr-I.
  - B. Skylab-I.
  - C. Shahab-I.
  - D. Sputnik-I.

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