AGA KHAN UNIVERSITY EXAMINATION BOARD

SECONDARY SCHOOL CERTIFICATE

CLASS IX EXAMINATION

APRIL/ MAY 2019

General Science Paper I

Time: 45 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.

M. e.arninoor

- 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 (A) (B) (D)	1 (A) (B) (Ø) (D)
	2 (A) (B) (C) (D)
	3 (A) (B) (X) (D)
	4 (A) (B) (Ø) (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.

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- 1. The branch of physics that analyses the different aspects and characteristics of land is
 - A. bio-physics.
 - B. geo-physics.
 - C. astro-physics.
 - D. micro-physics.
- 2. The amount of minerals in soil can be increased by the use of
 - A. fertilizers.
 - B. pesticides.
 - C. fungicides.
 - D. insecticides.
- 3. Ibn-ul-Haitham was a great scholar of physics.

All of the following are TRUE about his achievements EXCEPT that he

- A. presented three laws of reflection.
- B. wrote a book on optics named *Kitab-ul-Manazir*.
- C. discovered the nature of light as a kind of energy.
- D. carried out most of his research on the formation of images by spherical mirrors.
- 4. The book 'Al-Qanoon' is written by
 - A. Al-Razi.
 - B. Al-Bairuni.
 - C. Dr Atta-ur-Rehman.
 - D. Dr Abdus Samar Mubarik Mand.
- 5. In photosynthesis, the gas that is used in making sugar is
 - A. oxygen gas.
 - B. nitrogen gas.
 - C. carbon dioxide gas.
 - D. carbon monoxide gas.
- 6. The hardest allotropic form of carbon present in nature is
 - A. graphite.
 - B. charcoal.
 - C. diamond.
 - D. bucky ball.
- 7. A physical property of pure water is that it
 - A. boils at 60°C.
 - B. freezes at 0° C.
 - C. is an opaque liquid.
 - D. shows minimum density at 4°C.

- stomach. A.
- В. oesophagus.
- C. large intestine.
- D. small intestine.

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13. Which of the following is CORRECT about the human digestive organ and its function?

	Digestive Organ	Function
A	Liver	Stores bile juice
В	Stomach	Absorbs nutrients
С	Oesophagus	Produces gastric juice
D	Pancreas	Produces enzymes

- 14. In the digestive system of human beings, the function of gall bladder is to
 - A. store bile juice.
 - B. produce bile juice.
 - C. digest fats by bile juice.
 - D. emulsify proteins by bile juice.
- 15. The condition which indicates deficiency of platelets in the human body is
 - A. excessive bleeding after an injury.
 - B. deficiency of oxygen in body cells.
 - C. spread of disease causing microbes in the body.
 - D. presence of large number of antibodies in blood.
- 16. Which of the blood groups in the given table is CORRECTLY represented with its antigen and antibodies?

	Blood Group	Antigen on RBCs	Type of antibodies in Plasma
A	A	В	A
В	В	A	В
С	0	None	A and B
D	AB,	A	None

- 17. A nucleotide of deoxyribonucleic acid (DNA) is composed of a nitrogenous base, a
 - A. sugar and a sulphate group.
 - B. sugar and a phosphate group.
 - C. protein and a sulphate group.
 - D. protein and a phosphate group.
- 18. Which of the following CORRECTLY describes antibiotics?
 - A. They produce antibodies.
 - B. They are produced from viruses.
 - C. They can treat fungal infections.
 - D. They can trigger the growth of bacteria.

26. While making an electric circuit if the resistance is decreased, then

	Voltage	Current
A	increases	decreases
В	increases	increases
С	decreases	decreases
D	decreases	increases

- 27. Alternating current (A.C) is NOT used in a/ an
 - A. torch.
 - B. heater.
 - C. room cooler.
 - D. air conditioner.
- 28. The electric current that flows only in one direction in an electric circuit is
 - A. air current.
 - B. direct current.
 - C. alternating current.
 - D. conventional current.
- 29. The instrument that is used to measure the amount of current, voltage and resistance in an electric circuit is
 - A. ammetre.
 - B. voltmetre.
 - C. ohmmetre.
 - D. multimetre.
- 30. An electrical device that is connected in parallel with an electrical circuit is a/ an
 - A. battery.
 - B. resistor.
 - C. ammetre.
 - D. voltmetre.

Please use this page for rough work

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