



INOCENCIO SCHOOL, INC.

INOCENCIO SCHOOL MONTESSORI PLAYSCHOOL – INOCENCIO INTEGRATED SCHOOL

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FIRST QUARTERLY ASSESSMENT

SCIENCE 8

Prepared by: Ms. Julie Ann P. Robles

Name: _____

Score: _____ /70

Grade and Section: _____

Date: _____

IMPORTANT REMINDER: Following instructions is part of the exam. Failure to follow instructions will cause a **5-point-deduction** from the total raw score.

I. Number the following to show the sequence of the circulation of blood in the body. (10 pts.)

"Deoxygenated blood enters the heart thru:

_____ 1. left ventricle	_____ 6. lungs
_____ 2. pulmonary artery	_____ 7. right atrium
_____ 3. Superior and inferior vena cava	_____ 8. all parts of the body
_____ 4. left atrium	_____ 9. aorta
_____ 5. right ventricle	_____ 10. pulmonary vein

II. Multiple choice. Choose the best answer and write the capital letter on the space before each number.

_____ 11.) What body structure protects the lungs from physical injury?
A. Cartilage B. Tiny sac C. Rib cage D. Diaphragm

_____ 12.) What part of the blood carries minerals, vitamins, sugar and other nutrients to the body's cells?
A. Plasma B. Platelets C. Red blood cells D. White blood cells

_____ 13.) Which of the following is a function of the respiratory system?
A. gas exchange B. transport of oxygen
C. absorption of nutrients D. structural support

_____ 14.) Which among the following statements is/are correct?
1. Arteries have thinner walls compared to veins.
2. Pulmonary vein carries blood from the lungs back to the heart.

A. 1 only B. 2 only C. Both 1 and 2 D. Both are wrong

_____ 15.) Which of the following blood components is responsible for fighting diseases and gets rid of dead or dying blood cells and foreign matter?

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- A. Capillaries
- C. White blood cells

- B. Red blood cells
- D. Platelets

III. Complete the sentence with the correct word or phrase. (10 pts)

16. The _____ blood cells seek out, identify and bind with alien protein in bacteria, viruses and fungi so that they can be removed.
17. The human heart has _____ chambers and is about the size of a _____.
18. Deoxygenated blood is rich in _____ gas and its color is dull red.
19. The _____ is a sheet of muscles that lies across the bottom of the chest cavity.
20. The human heart has an average weight of _____.
21. Type O blood is also known as _____.
22. _____ circulation supplies blood to all the body except to the lungs.
23. The _____ separates the right and left sides of the heart.
24. _____ are sacs inside the lungs where exchange of gases happen.
25. _____ refers to the observable physical properties of an organism; these include the organism's appearance, development, and behavior.

IV. Analyze the table below. Write YES if the blood types are compatible and NO if not.

	DONOR	RECIPIENT
26.	AB-	O-
27.	B+	AB-
28.	O+	O-
29.	A-	A+
30.	O-	AB+
31.	A+	AB+
32.	O-	B-
33.	B-	AB-

IV. Solve the following genetic problems below:

34-35. Examine the following Punnett squares and put a check to those that are correct.

D	d
d	Dd
d	dd

D	D
d	Dd
d	Dd

A	a
A	AA
a	Aa

A	a
a	Aa
a	aa

For each of the genotypes below, determine the phenotype.

36. Purple flowers are dominant to white flowers

PP (genotype) _____ (phenotype)

Pp (genotype) _____ (phenotype)

37. Brown eyes are dominant to blue eyes

Bb (genotype) _____ (phenotype)

bb (genotype) _____ (phenotype)

Give three examples for each:

38. Homozygous dominant

39. homozygous recessive

Answer the following in a piece of paper. Take a picture of your work and send it in my messenger account (Joanne Robles)

40-43. In dogs, the allele for long fur is dominant and the allele for short fur is recessive. Cross a homozygous dominant dog with a dog with short fur.

45-48. In humans, brown-eyed allele (B) is dominant over blue-eyed allele (b). If two heterozygous humans mate, what will be the likely genotypic and phenotypic ratio of their offspring?

V. Set up the Punnett squares for each of the crosses listed below. Round seeds are dominant to wrinkled seeds.

A. P1- Rr P2- Rr

49. What percentage of the offspring will be round? _____

50. What percentage of the offspring will be homozygous recessive? _____

51. What percentage of the offspring will be heterozygous? _____

B. P1 - Rr P2 - rr

52. What percentage of the offspring will be round? _____

53. What percentage of the offspring will be wrinkled? _____

54. What percentage of the offspring will be heterozygous? _____

55. What percentage of the offspring will be homozygous recessive? _____

VII. Look at the pictures below and explain in 2-3 sentences if it promotes a healthy circulatory and respiratory system or not.

56-58.



59-61.



62-64.



VIII. In 1-2 sentences, explain the importance of the following topics that we discussed in your life.

65-66. Blood types

67-68. Heredity

69-70. Air pollution

*****END OF EXAM*****