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Level: 3ASS/3ASM/3ASMT/3ASD

Duration : 2H30

Mock exam subject 2

امتحان البكالوريا التجريبي
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الموضوع الثاني

Part one: Reading 15pts
A/COMPREHENSION

A Journey into Black Holes

Black holes are among the most mysterious and fascinating objects in the universe. A black hole is a region in space where gravity is so strong that nothing—not even light—can escape its pull. The idea of black holes was first predicted by Albert Einstein’s theory of general relativity, but it took many decades before scientists could collect strong evidence of their existence.

Black holes are formed when very massive stars run out of fuel and collapse under **their** own gravity. The core shrinks into an incredibly dense point called a singularity, surrounded by a boundary known as the event horizon. Anything that crosses this invisible line is lost forever. Although we cannot see black holes directly, astronomers detect them by observing the behavior of nearby stars and gas clouds. In 2019, scientists made history by capturing the first image of a black hole using the Event Horizon Telescope—**a global network of radio observatories**.

Studying black holes helps scientists understand how gravity works under extreme conditions. **They** also play a key role in the formation of galaxies and the evolution of the universe. Today, black holes remain a major area of research, using cutting-edge technology and international scientific cooperation.

<https://science.nasa.gov/astrophysics/focus-areas/black-holes2023>

1. The text is ... a. an extract from a novel b. a web article c. a magazine article 1pt

2. Say whether the following statements are true or false. 2pts

- Light cannot escape a black hole.
- Black holes are visible with the naked eye.
- Black holes affect the things around them.
- Scientists stopped studying black holes after 2019.

3. Answer the following questions according to the text. 3,5pts

- How are black holes formed?
- How do astronomers detect black holes if they can’t be seen directly?
- Why is studying black holes useful for scientists? Explain

4. Find who or what the underlined words refer to in the text.

1.5

1. their (§2)

2. a global network of radio observatories (§2)

3. They (§3)

B.Text Exploration. (07 points)

1. Find the text words or phrases that are closest in meaning to the following. 1.5pts

- a. ambiguous(1§) b- proof (1§) c- development(3§)

2. Divide the following words into roots and affixes 1.5 pts

observable – researchers - underdeveloped

prefix	root	suffix

3. Ask questions that the underlined words answer. 2pts

1. Scientists used the Event Horizon Telescope to capture the first image of a black hole.

2. Einstein’s theory predicted Black holes .

4. Reorder the following sentences to get a coherent passage. 2pts

- which persistently works to try and cause the star to collapse.
- to counteract the force of gravity and put the star into equilibrium.
- A star's life is a constant struggle against the force of gravity
- The star's core is very hot and creates pressure within the gas

Part Two: Written Expression. (05 points)

Choose ONE of the following topics.

Topic One: : *There are many ways to celebrate Astronomy Day. Your school has selected you to deliver a speech about the benefits of studying astronomy and exploring space. Write a speech of about 80 o 120 words on the topic. Make the best use of these notes.*

- Develop telecommunications /Gps /find locations
- Reveal the origin of universe
- Assist / Navigation/ sailing
- predict / weather /natural disasters

Topic Two: Your class is debating the influence of social media on young people. Write a n opinion article of about 100 words presenting your viewpoint about how social media can shape behavior and thinking .Mention both positive and negative effects.

انتهى الموضوع الثاني

CORRECTION MOCK EXAM SUJET2

Part I. A. Comprehension (08 points)

1. **The text is:** b. a web article

2. 1. True 2. False 3. True 4. False

3. Answer questions

a. Black holes are formed when very massive stars run out of fuel and collapse under their own gravity.

b. Astronomers detect black holes by observing the behavior of nearby stars and gas clouds.

c. Studying black holes helps scientists understand gravity under extreme conditions and the evolution of the universe.

4. Who or what do the underlined words refer to in the text?

1. their (§2) → stars 2. Event Horizon Telescope 3. They (§3) → black holes

B. Text Exploration (07 points)

1. = **Find the text words or phrases that are closest in meaning to the following.** 1.5

a. ambiguous(1§) =mysterious b- proof (1§) =evidence c- development(3§) evolution

2. **Divide the following words into roots and affixes** 1.5

observable – researchers - underdeveloped

prefix	root	suffix
//	Observe	Able
Re	Search	Er-s
under	develop	ed

3. **Ask questions that the underlined words answer.** 2

1. Scientists used the Event Horizon Telescope **to capture the first image of a black hole.**

What did scientist use the Event Horizon telescope for?

2. Einstein’s theory predicted **Black holes**

What did Einsten’s theory predict?

4. . . **Reordering**

C A D B

Part II: Written expression 5