

الموضوع الثاني

PART ONE: Reading

A/ Comprehension

(15pts)

(08pts)

Read the text carefully and do the activities.

Quasars are extremely distant objects in our known universe. They are the furthest objects away from our galaxy that can be seen. Quasars are extremely bright masses of energy and light, but because they are so far away, they appear as faint red stars to us here on Earth. The name quasar is actually short for quasi-stellar object.

A quasar is believed to be a super massive black hole surrounded by an accretion disk, which is a flat, disk-like structure of gas that rapidly spirals around a larger object, like a black hole. A quasar gradually attracts this gas and sometimes other stars or even small galaxies with their super strong gravity. When these objects get sucked into the black hole, the result is a massive collision that causes a gigantic explosive output of radiation energy and light. This results in a flare, which is a distinct characteristic of quasars.

Once the light and radiation from these galaxies and stars are absorbed into a black hole, they travel billions of light years through space. When we look at quasars which are 10-15 billion light years away, we are looking 10-15 billion years into the past.

Astronomyforkids.com

1. Circle the letter that corresponds to the right answer.

The text is: a. narrative b. descriptive c. argumentative

2. Write the letter which corresponds to the right answer.

- A. Quasars are.....
- the nearest objects to our galaxy.
 - not very far from our galaxy.
 - the most distant objects from our galaxy.
- B. A quasar.....a disk- like structure of gas.
- attracts
 - releases
 - emits
- C. Quasars are.....
- 10 -15 billion miles away.
 - 10 -15 million light years away.
 - 10 - 15 billion light years away.

3. Answer the following questions according to the text.

- Why do quasars appear to us as faint red stars?
- What effect does the massive collision of matter have?
- How is the distance in the outer space measured?

4. Choose the general idea of the text.

- The formation of quasars.
- The location of quasars.
- General description of quasars.

5. What or who do the underlined words refer to in the text?

- they (§1)
- these objects (§2)
- we (§3)

B/ Text Exploration

(07pts)

1. Find in the text words that are opposite to the following.
 a. close (§1) b. weak (§2) c. tiny (§2) d. released (§3)
2. Divide the following words into roots and affixes.
 disappearance - extremely - radiation - unidentified

| prefix | root | suffix |
|--------|------|--------|
| | | |
| | | |
| | | |
| | | |

3. Rewrite sentence (b) so that it means the same as sentence (a).
 1. a. A quasar is believed to be a super massive black hole.
 b. We.....
 2. a. Quasars are the furthest objects from our galaxy.
 b. No other object is.....
4. Classify the words according to the number of their syllables.
 structure - sucked - gravity - billion

| One Syllable | Two Syllables | Three Syllables |
|--------------|---------------|-----------------|
| | | |

5. Imagine what 'A' says and complete the following dialogue.
 A:
 B: No, quasars are the farthest stars from our galaxy.
 A:
 B: They are 10-15 billion light years away.
 A:
 B: They are visible to us as faint red stars.

PART TWO: Written Expression

(05pts)

Choose ONE of the following topics:

Topic One: Using the notes below, write a composition of 120-150 words to describe the planet Mercury.

- Mercury: the Roman version of the god Hermes
- very small planet/ the closest to the sun/ the hottest planet
- diameter: 4876 km / orbits the sun: 87.969 days
- looks like the moon/ has craters and basins
- no air/ no water/ presence of hydrogen and helium gases

Topic Two: Young people who are addicted to fast foods are the most likely to become obese. Write a composition of 120-150 words stating the main causes of obesity, its dangers and how to control it.

| العلامة | | عناصر الإجابة (الموضوع الثاني) | | | | | | | | | | | | | | | |
|---------|----------------------|--|--------|------|--------|-----|--------|------|--|---------|----|--|-----------------|-----|----|--------------------|----|
| مجموع | مجزأة | | | | | | | | | | | | | | | | |
| 08 pts | | PART ONE: Reading (15pts) Quasars are extremely..... A/ Comprehension(08pts) | | | | | | | | | | | | | | | |
| 1 pt | 01 | 1. b. descriptive | | | | | | | | | | | | | | | |
| 1.5pts | 0.5x3 | 2. A. c B. a C. c | | | | | | | | | | | | | | | |
| 3 pts | 01x3 | 3. a. Because they are so far away/ the furthest objects away from our galaxy. b. The massive collision of matter causes a gigantic explosive output of radiation, energy and light. The result is a massive collision that causes a gigantic explosive output of radiation energy and light. c. The distance in the outer space is measured in light years. | | | | | | | | | | | | | | | |
| 1 pt | 01 | 4. c | | | | | | | | | | | | | | | |
| 1.5 pt | 0.5x3 | 5. a. they: quasars/distant (furthest objects) b. these objects: gas, other stars and small galaxies. c. we: readers/people/astronomers, etc. | | | | | | | | | | | | | | | |
| 07 pts | | B/ Text Exploration(07pts) | | | | | | | | | | | | | | | |
| 1 pt | 0.25x4 | 1. a. distant/far b. strong c. gigantic/ massive d. absorbed | | | | | | | | | | | | | | | |
| 2 pts | 0.5x4 (each line) | 2. | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>prefix</th> <th>root</th> <th>suffix</th> </tr> </thead> <tbody> <tr> <td>dis</td> <td>appear</td> <td>ance</td> </tr> <tr> <td></td> <td>extreme</td> <td>ly</td> </tr> <tr> <td></td> <td>radiate/ radiat</td> <td>ion</td> </tr> <tr> <td>un</td> <td>identify/ identifi</td> <td>ed</td> </tr> </tbody> </table> | prefix | root | suffix | dis | appear | ance | | extreme | ly | | radiate/ radiat | ion | un | identify/ identifi | ed |
| prefix | root | suffix | | | | | | | | | | | | | | | |
| dis | appear | ance | | | | | | | | | | | | | | | |
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| un | identify/ identifi | ed | | | | | | | | | | | | | | | |
| 1.5 pt | 0.75x2 | 3. b. 1. We believe a quasar to be a super massive black hole. We believe that a quasar is a super massive black hole. b. 2. No object is further /farther/more distant than quasars in our galaxy. | | | | | | | | | | | | | | | |
| 1 pt | 0.25x4 | 4. Sound system: - One syllable: sucked - Two syllables: structure, billion - Three syllables: gravity | | | | | | | | | | | | | | | |
| 1.5 pt | 0.5x3 | 5. A1: Are quasars near /close to our galaxy? A2: How far/distant are they from us? A3: How do they appear to us? (NB. Accept any correct answer) | | | | | | | | | | | | | | | |
| 05 pts | | PART TWO: Written Expression (05 pts) Topic 1: form : 03 pts Content : 02 pts Topic 2: form : 2.5 pts content : 2.5 pts | | | | | | | | | | | | | | | |