



هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission



Preparation Form (B)

National Tests (NAFS)

9th Grade

2026



Section One: Mathematics

Items: 1 - 10

Time: 18 Min.

INSTRUCTIONS

- Read each question carefully, then choose the correct answer.
- Each question has only **one** correct answer.
- Answer all the questions.



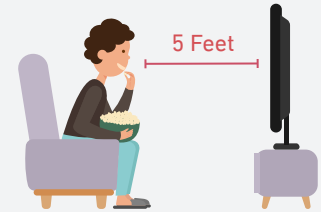
6 If $x = 2$ and $y = 3$, what is the value of the following expression?

$$y^2(3+|x-5|)$$

- A. 90
B. 70
C. 54
D. 36

7 According to the figure below, what is the approximate distance between Ahmed and the television in meters?

- A. 1
B. 1.5
C. 2
D. 2.5

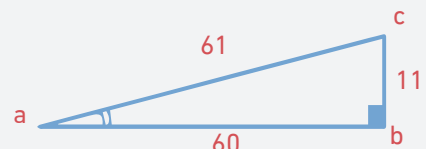


8 At the refreshment table, there are 10 cups each of orange, apple, and strawberry juice. After the first guest takes an apple juice and the second takes a strawberry juice, what is the probability that the third guest chooses strawberry juice?

- A. $\frac{1}{3}$
B. $\frac{9}{28}$
C. $\frac{9}{29}$
D. $\frac{3}{10}$

9 What is the value of $\sin(a)$ in the given triangle?

- A. $\frac{60}{11}$
B. $\frac{60}{61}$
C. $\frac{11}{60}$
D. $\frac{11}{61}$



10 The graph below represents the number of cash deposits at an ATM. What is the difference between the median of these data and the minimum number of transactions?

- A. 170
B. 120
C. 80
D. 70



Section Two: Sciences

Items: 11 - 20

INSTRUCTIONS

- Read each question carefully, then choose the correct answer.
- Each question has only **one** correct answer.
- Answer all the questions.





11 The science teacher asked four students to describe the main changes that happen during the different stages of the cell cycle. Their answers are shown in the table below. Which student answered the question correctly?

- A. Mohammed and Ibrahim
- B. Ibrahim and Khalid
- C. Mohammed and Khalid
- D. Khalid and Salman

Student	Interphase	Cell Division
Mohammed	Organelle replication	Pairs of chromatids appear
Ibrahim	Nuclear membrane disappears	Centromeres duplicates
Khalid	Genetic substance replicates	Chromosomes aligns
Salman	Nucleus appears	Chromosome replication

12 Plants frequently experience nondisjunction during meiosis, producing triploid chromosomes. Which of the following plants fits this description?

- A. Banana
- B. Strawberry
- C. Barley
- D. Wheat

13 When a car stops suddenly, passengers feel as if they are being thrown forward, how does the seat belt help protect the passengers from this effect? The seat belt...

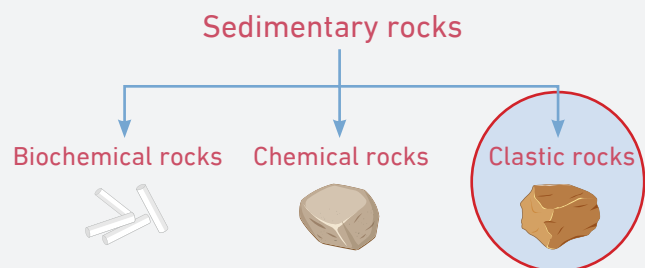
- A. reduces the effect of inertia
- B. reduces the centripetal force
- C. increases the effect of momentum
- D. increases centripetal acceleration

14 During exercise, energy in the muscles is converted to produce movement. Which of the following statements best describes this transformation?

- A. Thermal energy is fully converted into kinetic energy.
- B. Chemical energy is transformed into kinetic energy without producing heat.
- C. Kinetic energy is converted into chemical energy stored in the body.
- D. Chemical energy is turned into movement, with some of it released as heat.

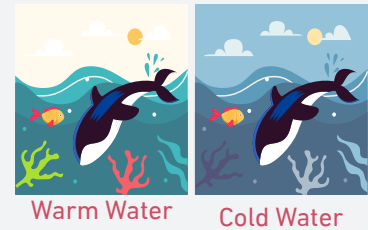
15 The image below shows a concept map of sedimentary rocks. Which of the following is an example of the sedimentary rock type shown in the circle?

- A. Sandstone
- B. Limestone
- C. Coal
- D. Marble



16 Look at the two images below. What occurs to the whale and the fish when the environmental temperature changes?

- A. The body temperature of both the whale and the fish varies
- B. The fish's body temperature remains steady, whereas the whale's varies
- C. The body temperature stays constant in both the whale and the fish
- D. The fish's body temperature varies, while the whale's remains steady

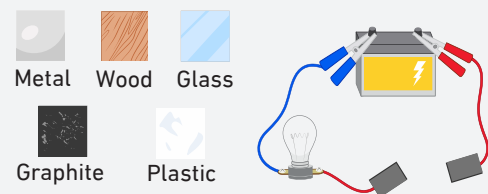


17 Which of the following chemical laws follows the law of conservation of mass?

- A. $\text{Ag} + \text{H}_2\text{S} \rightarrow \text{Ag}_2\text{S} + \text{H}_2$
- B. $2\text{Ag} + \text{H}_2\text{S} \rightarrow \text{Ag}_2\text{S} + \text{H}_2$
- C. $\text{Ag} + 2\text{H}_2\text{S} \rightarrow \text{Ag}_2\text{S} + \text{H}_2$
- D. $\text{Ag} + \text{H}_2 \rightarrow 2\text{Ag}_2\text{S} + \text{H}_2$

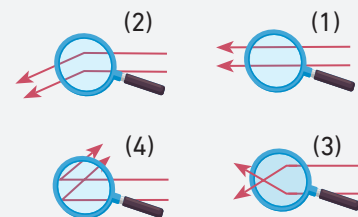
18 Look at the figure below. Which of the following materials would cause the bulb to light up when used as a conductor?

- A. Glass and wood
- B. Graphite and metal
- C. Wood and plastic
- D. Plastic and graphite

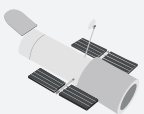





19 Which diagram illustrates the path of light as it passes through a magnifying lens?

- A. 1
- B. 2
- C. 3
- D. 4



20 The figure below shows a reflecting telescope used for space exploration. Which part of the telescope collects incoming light?

- A. Hubble telescope 
- B. refracting telescope 
- C. Reflecting telescope 
- D. Radio telescope 



Section Three: Reading

Items: 21 - 25

Time: 18 Min.

INSTRUCTIONS

- Read the whole passage before you answer the questions.
- Read each question carefully, then choose the correct answer.
- Each question has only **one** correct answer.
- Answer all the questions.

The ongoing debate surrounding digital and print books emphasizes the distinctive advantages each format provides, catering to the diverse preferences and needs of contemporary readers. As technological innovation continues to reshape reading habits, choosing between the two has become increasingly complex. Both formats offer fundamentally different modes of engagement, ensuring that each will continue to coexist within the modern reading landscape.

E-books, or digital texts, have become increasingly popular due to their exceptional convenience and portability. The capacity to store thousands of titles on a single lightweight device makes them particularly appealing to travelers and busy commuters. Furthermore, digital platforms enable extensive personalization—allowing users to modify font size, brightness, and color schemes to suit their comfort. Additional tools such as built-in dictionaries, highlighting, and note-taking functions enhance accessibility, particularly for individuals with visual impairments or learning difficulties. From an economic perspective, e-books are often the more cost-effective option, supported by free public-domain resources and subscription services that provide access to vast collections for a **flat fee**.



Nevertheless, digital reading is not without limitations. Extended exposure to screens is frequently linked to eye strain and reduced concentration, leading some readers to report a weaker sense of **immersion** compared to reading from a physical page. Moreover, dependence on electronic devices introduces issues of reliability: batteries can deplete, software may fail, and hardware can quickly become outdated. Such vulnerabilities make the long-term accessibility of digital libraries less certain.

Conversely, print books offer a distinctly sensory and enduring reading experience that continues to captivate many readers. The tactile sensation of paper, the characteristic scent of ink and pages, and the rhythmic act of turning them foster a sense of intimacy and focus that digital reading often lacks. Print books also possess an intrinsic permanence; unlike digital files, which can be lost or corrupted, physical copies can endure for decades when properly preserved. Their independence from power sources further enhances their practicality. For numerous readers, collecting and displaying print books carries not only aesthetic value but also emotional significance, symbolizing a personal connection to the written word.

Ultimately, the decision between digital and print books depends on individual priorities whether one values convenience and accessibility or sensory engagement and permanence. As both formats continue to evolve, they are likely to complement rather than replace each other, offering readers the opportunity to enjoy the best aspects of both worlds.

21 Which word has the opposite meaning of “**immersion**” as used in the text?

- | | |
|----------------|----------------|
| A. involvement | B. convenience |
| C. transient | D. distraction |



- 22** What does the term “flat fee” most accurately imply?
- A. An amount that is non-refundable and must be paid in cash.
 - B. A fixed, consistent price for access, regardless of usage volume.
 - C. A charge that decreases over time as the user reads more books.
 - D. An adjustable price that depends on the current market value of books.
-
- 23** What aspect of the sensory experience associated with print books does the text emphasize?
- A. The feel, the distinct smell, and the physical act of turning pages.
 - B. The ability to adjust the font size and the built-in highlighting tools.
 - C. Their affordable price and their ability to store thousands of titles.
 - D. Their independence from power and their lasting material permanence.
-
- 24** Based on the text, identify the statement representing a fact from the following:
- A. Many readers feel less engaged when reading digital versions.
 - B. Digital reading is less enjoyable than reading a physical book.
 - C. Both digital and print books are likely to coexist in the future.
 - D. Prolonged exposure to screens is frequently linked to eye strain.
-
- 25** Which of the following situations closely reflects the concept of digital customization and user control as described in the text?
- A. A writer presenting the themes and sequence of events of a novel during a live reading session for a local audience.
 - B. A student photocopying textbook pages and highlighting key terms with different colored markers for later review.
 - C. A traveler packing printed guidebooks to explore several destinations without relying on digital devices.
 - D. A filmmaker editing a short documentary by refining color tones, balancing audio, and adding captions to enhance viewer engagement.
-

End of test

Answer Key

#	Answer Key
1	D
2	C
3	C
4	B
5	D
6	C
7	B
8	B
9	D
10	B
11	C
12	A
13	A
14	D
15	A
16	D
17	B
18	B
19	C
20	A
21	D
22	B
23	A
24	D
25	D





هيئة تقويم التعليم والتدريب

Education & Training Evaluation Commission



ETECKSA



ETEC.GOV.SA