



# Assessment of Academic Ability EXAMINATION

# PRACTICE PAPER

This paper must not be used for actual examinations.

## DCTAS Development

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Exam ID: 1297775923-2616-17

### Instructions to Candidates:

Marks Available: 40  
Pass Mark: 80% (32 marks)  
Time Allowed: 1 hour 30 minutes

Do not write on this examination paper.  
This paper is to be returned at the end of the examination.

There are 31 questions in this examination.  
Use the supplied answer sheet for your responses.  
Ensure that every answer sheet bears your name.

Permitted Accessories:  
Writing materials, Calculator.

Additional Materials:  
Supplementary text: 'HSE and diving'

**1) What is  $26 + 32$ ?**

- A: 2632
- B: 58
- C: 62
- D: 68
- E: 52

**2) What is  $126 - 32$ ?**

- A: 38
- B: 64
- C: 94
- D: 93
- E: 84

**3) What is  $15 \times 12$ ?**

- A: 150
- B: 162
- C: 1512
- D: 180
- E: 200

**4) What is  $360 \div 20$ ?**

- A: 180
- B: 18
- C: 12
- D: 36
- E: 26

**5) What is  $12.1 + 16.4$ ?**

- A: 28.5
- B: 285
- C: 32.4
- D: 16.1
- E: 29.5

**6) What is  $120.5 - 10.5$ ?**

- A: 105
- B: 110
- C: 115
- D: 120
- E: 10

**7) What is  $2.5 \times 3$ ?**

- A: 7.2
- B: 3.5
- C: 6.5
- D: 7
- E: 7.5

**8) What is  $10 \div 2.5$ ?**

- A: 2
- B: 2.5
- C: 3
- D: 4
- E: 4.5

**9) What is  $1/2 + 1/4$ ?**

- A:  $3/6$
- B:  $3/8$
- C:  $3/4$
- D:  $2/6$
- E:  $2/8$

**10) What is  $1/2 - 1/8$ ?**

- A:  $1/4$
- B:  $1/6$
- C:  $1/8$
- D:  $3/8$
- E:  $7/8$

**11) What is  $2 \times 1/2$ ?**

- A: 1
- B: 2
- C:  $1/4$
- D:  $1/20$
- E:  $1/2$

**12) What is  $1 \div 2$ ?**

- A: 1
- B: 2
- C: 4
- D:  $1/2$
- E:  $1/4$

**13) What is the result of adding 10% to 250?**

- A: 260
- B: 275
- C: 300
- D: 255
- E: 265

**14) What is the result of subtracting 10% from 180?**

- A: 160
- B: 162
- C: 172
- D: 170
- E: 178

**15) What is 2 out of 10 expressed as a percentage?**

- A: 10%
- B: 20%
- C: 40%
- D: 22%
- E: 12%

**16) What is three quarters when expressed as a percentage?**

- A: 66%
- B: 70%
- C: 75%
- D: 80%
- E: 34%

**17) If  $a + b = c$ , what is  $a$ ?**

- A:  $a = c - b$
- B:  $a = c + b$
- C:  $a = c \div b$
- D:  $a = c - a$
- E:  $a = a + b$

**18) If  $a \times b = c$ , what is  $b$ ?**

- A:  $b = a + b$
- B:  $b = a - b$
- C:  $b = c - a$
- D:  $b = c \times a$
- E:  $b = c \div a$

**19) If  $a + c = 20$  and  $a = 12$ , what is  $c$ ?**

- A: 8
- B: 10
- C: 12
- D: 20
- E: 18

**20) If  $2 \times b = 24$ , What is  $b$ ?**

- A: 10
- B: 12
- C: 16
- D: 18
- E: 22

- 21) Referring to the supplementary text, which of the following statements best summarises the second paragraph of Section 2?**
- A: Diving can be dangerous
  - B: HSE makes diving regulations in order to make diving safer
  - C: Divers have a number of responsibilities under the regulations
  - D: HSE approves diving qualifications
  - E: Divers and clients have responsibilities under the regulations
- 22) Referring to the supplementary text, which of the following statements best summarises the first paragraph of Section 4?**
- A: Diving requires a high level of fitness and a medical examination
  - B: HSE set regulations for diving
  - C: There are four main standards for commercial diving competence
  - D: You do not need a medical to work as a diver, but it is sensible to have one
  - E: Medical certificates last for at least 12 months
- 23) Referring to Section 1 of the supplementary text, how many fatal accidents occurred between 1996/7 and 2003/4?**
- A: 8
  - B: 96
  - C: 24
  - D: 6
  - E: 4
- 24) Referring to Section 4 of the supplementary text, to what depths do closed bell divers dive using mixed gas?**
- A: Up to 10 metres
  - B: 20 metres
  - C: 50 metres
  - D: Over 50 metres
  - E: Over 500 metres
- 25) "Construction workers may require \_\_\_\_\_ qualifications". Refer to Section 3 of the supplementary text and fill in the missing word.**
- A: welding
  - B: additional
  - C: ancilliary
  - D: technical
  - E: specialist
- 26) "Risks can be significantly \_\_\_\_\_ by adhering to regulations". Refer to Section 1 of the supplementary text and fill in the missing word.**
- A: reduced
  - B: addressed
  - C: maximised
  - D: organised
  - E: treated

- 27) "The 'diving industry' can be considered as a number of sectors where people need to go underwater to work" (Section 1 of the supplementary text). Which of the following word(s) has the same meaning as the word 'considered'?**
- A: established
  - B: thought of
  - C: supported
  - D: proposed
  - E: illuminated
- 28) "In order to become a working diver in Great Britain you must obtain a qualification approved by HSE" (Section 4 of the supplementary text). Which of the following word(s) has the same meaning as the word 'obtain'?**
- A: get
  - B: purchase
  - C: borrow
  - D: avoid
  - E: lose
- 29) Section 1 of the supplementary text uses the word 'hazardous'. Which of the following words has the OPPOSITE meaning to this word?**
- A: risky
  - B: dangerous
  - C: health
  - D: practices
  - E: safe
- 30) Section 1 of the supplementary text uses the word 'general'. Which of the following words has the OPPOSITE meaning to this word?**
- A: vague
  - B: private
  - C: special
  - D: specific
  - E: associate

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## Instructions to Candidates:

Using a pencil, shade the circle to indicate your chosen response.

If you change your mind, ensure that you erase your original choice.

Name \_\_\_\_\_

Date \_\_\_\_\_

1    (A)   (B)   (C)   (D)   (E)

16    (A)   (B)   (C)   (D)   (E)

2    (A)   (B)   (C)   (D)   (E)

17    (A)   (B)   (C)   (D)   (E)

3    (A)   (B)   (C)   (D)   (E)

18    (A)   (B)   (C)   (D)   (E)

4    (A)   (B)   (C)   (D)   (E)

19    (A)   (B)   (C)   (D)   (E)

5    (A)   (B)   (C)   (D)   (E)

20    (A)   (B)   (C)   (D)   (E)

6    (A)   (B)   (C)   (D)   (E)

21    (A)   (B)   (C)   (D)   (E)

7    (A)   (B)   (C)   (D)   (E)

22    (A)   (B)   (C)   (D)   (E)

8    (A)   (B)   (C)   (D)   (E)

23    (A)   (B)   (C)   (D)   (E)

9    (A)   (B)   (C)   (D)   (E)

24    (A)   (B)   (C)   (D)   (E)

10    (A)   (B)   (C)   (D)   (E)

25    (A)   (B)   (C)   (D)   (E)

11    (A)   (B)   (C)   (D)   (E)

26    (A)   (B)   (C)   (D)   (E)

12    (A)   (B)   (C)   (D)   (E)

27    (A)   (B)   (C)   (D)   (E)

13    (A)   (B)   (C)   (D)   (E)

28    (A)   (B)   (C)   (D)   (E)

14    (A)   (B)   (C)   (D)   (E)

29    (A)   (B)   (C)   (D)   (E)

15    (A)   (B)   (C)   (D)   (E)

30    (A)   (B)   (C)   (D)   (E)

**You may need additional paper for the short answer questions.**

**Ensure that your name is written at the top of all additional answer sheets.**