

KARNATAKA EXAMINATIONS AUTHORITY
POST GRADUATE COMMON ENTRANCE TEST (PGCET) – 2025

SECTION A: REASONING AND LOGICAL ABILITY (Q. 1 – 40)

Directions (Questions 1–3): Read the following passage carefully and answer the questions.

There are six persons A, B, C, D, E and F in a school. Each of the teachers teaches two subjects — one compulsory subject and the other optional. D's optional subject was History while three others have it as compulsory subject. E and F have Physics as one of their subjects. F's compulsory subject is Mathematics which is an optional subject of both C and E. History and English are A's subjects, but in terms of compulsory and optional, they are just reverse of those of D's. Chemistry is an optional subject of only one of them. The only female teacher in the school has English as her compulsory subject.

1. What is C's compulsory subject?

- (A) History
- (B) Physics
- (C) Chemistry
- (D) English

2. Disregarding which is the compulsory and which is the optional subject, who has the same subject combination as F?

- (A) A
- (B) B
- (C) E
- (D) D

3. Which of the following groups has History as the compulsory subject?

- (A) A, C, D
- (B) B, C, D
- (C) C, D (D)
- A, B, C

4. B is twice as old as A, but twice younger than F. C is half the age of A, but twice the age of D. Which two persons form the pair of the oldest and the youngest?

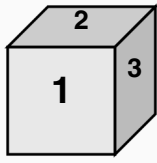
- (A) F and A
- (B) F and D
- (C) B and F
- (D) F and C

5. Noise : Din :: Quiet : ?

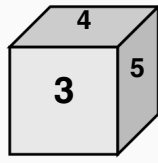
- (A) Hush
- (B) Dumb
- (C) Gas
- (D) Mouth

6. Two faces of a cube are shown below. Which number is opposite to 3?

(Refer to cube figure below)



Face 1



Face 2

- (A) 1
- (B) 5
- (C) 4
- (D) 2

7. What is 'X' in the following table?

7	2	17	3	5
6	4	X	3	5
8	5	24	7	4

- (A) 16
- (B) 17
- (C) 18
- (D) 21

8. Find the letter to be placed in '?'

(Refer to figure below)



- (A) M
- (B) N
- (C) O
- (D) P

9. Which term of the series 5, 10, 20, 40, is 1280?

- (A) 10th
- (B) 8th
- (C) 9th
- (D) None of the above

10. Fill in the blanks (in sequence): c _ bbb _ abbbb _ abbb _

- (A) aabcb
- (B) abacb
- (C) abcbb
- (D) bacbb

11. How many pairs of letters are there in the word 'LANGUISH' which have the same number of letters between them in the word as in the alphabet?

- (A) Nil (B)
- One (C)
- Two (D)
- Three

12. If the last four letters of the word 'CONCENTRATION' are written in reverse order, followed by the next two in reverse order and then the next three in reverse order (counting from the end), which letter would be eighth in the new arrangement?

- (A) N
- (B) T
- (C) E
- (D) R

13. Which would be the proper ascending order of the following?

- (A) Trillion
- (B) Thousand
- (C) Billion
- (D) Hundred

14. Given: (i) A is the mother of B (ii) C is the son of A (iii) D is the brother of E (iv) E is the daughter of B. The grandmother of D is:

- (A) A
- (B) B
- (C) C
- (D) D

15. If $A + B$ means A is the sister of B; $A - B$ means A is the brother of B; $A \times B$ means A is the daughter of B. Which of the following shows that E is the maternal uncle of F?

- (A) $D + F \times E$
- (B) $D - F \times E$
- (C) $D \times F + E$
- (D) $D \times F - E$

16. **Assertion (A):** Nuclear fusion is used to generate electricity.

Reason (R): Nuclear power is not used because it cannot be controlled.

Choose the correct alternative:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true and (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) Both (A) and (R) are false

17. Five friends P, Q, R, S and T travelled to five different cities — Chennai, Kolkata, Delhi, Bengaluru and Hyderabad — by Bus, Train, Aeroplane, Car and Boat from Mumbai. The person who travelled to Delhi did not travel by boat. R went to Bengaluru by Car and Q went to Kolkata by Aeroplane. S travelled by boat whereas T travelled by train. Mumbai is not connected by bus to Delhi and Chennai. Which of the following combinations of person and mode is NOT correct?

- (A) P – Bus
- (B) Q – Aeroplane
- (C) S – Boat
- (D) T – Aeroplane

18. A, B, C, D, E and F are cousins. No two cousins are of the same age, but all share the same birthday date. The youngest is 17 years old and the oldest, E, is 22 years old. F is somewhere between B and D in age. A is older than B; C is older than D. Which of the following is NOT possible?

- (A) D is 20 years old
- (B) F is 18 years old
- (C) F is 19 years old
- (D) F is 20 years old

19. Kashish goes 30 metres North, then turns right and walks 40 metres, then again turns right and walks 20 metres, then again turns right and walks 40 metres. How many metres is she from her original position?

- (A) 10
- (B) 20
- (C) 30
- (D) 40

20. What is the angle between the hour and the minute hand when the time is 3:25?

- (A) 40.5°
- (B) 47.5°
- (C) 35.5°
- (D) 38.5°

21. Find the missing term in the following series: 1, 3, 4, 9, __, 27, 10

- (A) 7
- (B) 12
- (C) 11
- (D) 13

22. Which term will replace the question mark (?) in the series: AZ, GT, MN, ?, YB

- (A) KF
- (B) RX
- (C) SH
- (D) TS

23. Find the wrong term in the letter-number series: Q1F, S2E, U6D, W12C, Y88B

- (A) S2E
- (B) U6D
- (C) W12C
- (D) Y88B

24. 'A' ranks 12th in a rank list of 46 students. What will be the rank of 'A' from the last?

- (A) 33
- (B) 34
- (C) 35
- (D) 37

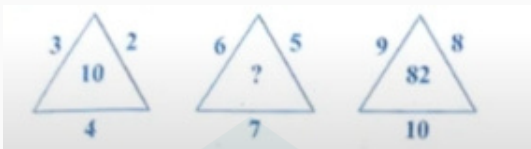
25. If it was a Friday on 15th September 2023, then what will be the day on 20th September 2024?

- (A) Friday
- (B) Saturday
- (C) Sunday
- (D) Monday

26. Out of 120 students in a school, 5% can play all 3 sports — cricket, hockey and kho-kho. The number of students who can play any 2 and only 2 of the above sports is 30 and students who can play only cricket is 40. What is the total number of students who can play only hockey or kho-kho alone?

- (A) 30
- (B) 38
- (C) 44
- (D) 45

27. Find the missing number from the given figure:



- (A) 35
- (B) 36
- (C) 37
- (D) 38

28. A family consists of A, B, C, D, E and F. B is the son of C but C is not the mother of B. A and C are a married couple. E is the brother of C. D is the daughter of A. F is the brother of A. How many female members are there in the family?

- (A) One
- (B) Two
- (C) Three
- (D) Four

29. Two candles are of different lengths and thickness. The short and long ones can burn for 3.5 hours and 5 hours respectively. After burning for 2 hours, the lengths of candles are equal. What fraction of the long candle's height was the short candle initially?

- (A) $\frac{2}{7}$
- (B) $\frac{5}{7}$
- (C) $\frac{3}{5}$
- (D) $\frac{4}{5}$

30. A mother was asked how many gifts she had in the bag. She replied that there were dolls but six, cars but six, and all books but six. How many gifts had she in all?
- (A) 9
(B) 18
(C) 27
(D) 36
31. In a school, 120 boys have registered for a singles carrom tournament. Each match eliminates one player. How many matches are to be organised to determine the champion?
- (A) 60
(B) 61
(C) 119
(D) 120
32. Reena, Rita and Zoha are three friends. Reena is 2 years older than Rita and 5 years older than Zoha. The sum of the present ages of Reena and Zoha is 3 times the age of Rita 5 years ago. What is the current age of Rita?
- (A) 12 years
(B) 14 years
(C) 16 years
(D) 18 years
33. A person needs to find the fastest two horses from 16 horses. Only a race of 4 horses can be conducted at a time. What is the minimum number of races to be conducted to determine the fastest two? (Assume horses will not tire and time cannot be measured.)
- (A) 6
(B) 7
(C) 8
(D) 16
34. In the multiplication: $SEAM \times T = MEATS$, the five letters represent five different digits. There is no zero. What are the actual figures?
- (A) $M = 3, E = 9, A = 7, T = 4, S = 8$
(B) $M = 4, E = 3, A = 9, T = 7, S = 8$
(C) $M = 4, E = 3, A = 9, T = 7, S = 8$
(D) $M = 3, E = 9, A = 7, T = 4, S = 8$
35. A family has husband, wife, and three children A, B, and C. The husband's age is 5 years more than the wife's. Wife's age is twice A's age. A's age is 12 years more than B's. B's age is twice C's. If C is 12 years old, what is the present age of the husband's friend Ram who is 15 years younger than the husband?
- (A) 30 years
(B) 50 years
(C) 62 years
(D) 80 years
36. A sprinter starts a 100-metre run; at that instant the second-hand of a stopwatch pointed North. He crosses the finishing line exactly after 12 seconds. In which direction did the second hand point when he crossed the finishing line?
- (A) 18° North of East
(B) 18° East of North
(C) 72° North of East
(D) 82° East of North

37. Which interchange of sign and number would make the equation correct? $(96 + 128) \div 64 = 2$
- (A) + and \div , 64 and 96
 - (B) + and \div , 64 and 128
 - (C) + and \div , 96 and 128
 - (D) + and \div , 96 and 128
38. When a coin is tossed 4 times, what is the probability of getting at most 3 heads?
- (A) 0.25
 - (B) 0.9375
 - (C) 0.6875
 - (D) 0.1
39. In a consignment of electric lamps, 5% are defective. If a random sample of 8 lamps is inspected, what is the probability that one or more lamps are defective?
- (A) 0.6633
 - (B) 0.3366
 - (C) 0.3333
 - (D) 0.6666

SECTION B: ENGLISH LANGUAGE COMPETENCY (Q. 41 – 60)

41. Choose the word CLOSEST in meaning to: **AFFLUENT**

- (A) Prosperous
- (B) Quick
- (C) Prominent
- (D) Handy

42. Choose the word OPPOSITE in meaning to: **FRAUD**

- (A) Impostor
- (B) Swindle
- (C) Forthright
- (D) Miscreant

43. Select the appropriate word/phrase to fill in the blank:

Although tired, he refused to _____ .

- (A) give in
- (B) gave in
- (C) giving in
- (D) given in

Directions (Q. 44): There are five sentences marked I–V. The position of I is fixed as the first sentence. Choose the most logical sequence of sentences II–V.

- I. Among the chief sources of education available to Tagore was a quiet garden adjoining his family house.
II. It was in this garden too, that he came to understand that the principle of harmony was at work throughout the universe.
III. Here he used to spend much of his time, absorbing the peace and beauty of nature.
IV. At the same time, he formed the habit of observing and reflecting on things.
V. It was through this early contact with nature that he acquired that quality of mood which distinguished him all his life.

44. The correct sequence after sentence I is:
(A) II – III – V – IV
(B) II – V – III – IV
(C) V – IV – II – III
(D) III – II – V – IV
45. Who is the author of Paradise Lost?
(A) William Shakespeare
(B) William Wordsworth
(C) John Milton
(D) John Keats
46. One who does a thing for pleasure and not as a profession is called:
(A) Apostate
(B) Arbitrator
(C) Amateur
(D) Agnostic
47. Select the option that best expresses the meaning of the phrase: **TURN UP**
(A) To turn something on
(B) To appear unexpectedly
(C) To wait for somebody
(D) To lift up something
48. Choose the passive form of: "We have completed our task before sunset."
(A) Our task has been completed before sunset.
(B) We had completed our task before sunset.
(C) Our task had been completed before sunset.
(D) Our task was completed before sunset.
49. Choose the grammatically correct sentence:
(A) He is capable to support himself.
(B) He is capable for supporting himself.
(C) He is capable of supporting himself.
(D) He was capable to support himself.
50. Fill in the blank: She doesn't like cricket, _____ does she enjoy hockey.
(A) not
(B) nor
(C) and
(D) or

51. Choose the correctly spelled word for the blank:
"The church has a _____ to helping the poor."

52. Fill in the blank: Grandmother walked _____ towards the bed after watching the T.V.

- (A) fairly
- (B) slowly
- (C) down
- (D) mostly

Directions (Q. 53–56): Read the passage and fill in each blank with the most appropriate word from the options.

The giant panda is a bear that lives in Central China. It is special because of its black and white fur. Pandas belong to the most (53) _____ species of our world. About 2000 pandas live in the wilderness and 300 live in (54) _____ zoos around the world. Recently, there have been (55) _____ in many countries to save the giant panda. The animal has been driven away from its natural habitat because of deforestation, intensive farming, and the creation of new (56) _____.

53. Blank (53):

- (A) dangerous
- (B) danger
- (C) variety
- (D) endangered

54. Blank (54):

- (A) variety
- (B) various
- (C) similar
- (D) fewer

55. Blank (55):

- (A) battles
- (B) elections
- (C) campaigns
- (D) operations

56. Blank (56):

- (A) settling
- (B) settlers
- (C) settle
- (D) settlements

57. Who wrote the book Arms and the Man?

- (A) William Wordsworth
- (B) William Shakespeare
- (C) G.B. Shaw
- (D) John Galsworthy

58. Who is the author of the poem Daffodils?

- (A) William Shakespeare
- (B) John Keats
- (C) T.S. Eliot
- (D) William Wordsworth

59. Select the most appropriate word to fill the blank:

The teacher had asked his students _____ their assignments before the deadline.

- (A) complete
- (B) to complete
- (C) completing
- (D) completed

60. Choose the passive form of: "They drew a circle in the morning."

- (A) A circle was drawn by them in the morning.
- (B) A circle was being drawn by them in the morning.
- (C) They were drawn a circle in the morning.
- (D) A circle is being drawn by them in the morning.

SECTION C: COMPUTER FUNDAMENTALS (Q. 61 – 80)

61. The group of instructions that perform a specific task is called:

- (A) Memory
- (B) Control
- (C) Program
- (D) Logic

62. The Analytical Engine was developed by:

- (A) Von Reibnitz
- (B) Charles Babbage
- (C) Herman Hollerith
- (D) Blaise Pascal

63. Which of the following sequences is correct?

- (A) Source code → Linker → Object code → Compiler → Executable code
- (B) Object code → Linker → Source code → Compiler → Executable code
- (C) Source code → Compiler → Object code → Linker → Executable code
- (D) Object code → Compiler → Source code → Linker → Executable code

64. The access time refers to:

- (A) Time required to locate and retrieve the data
- (B) Time required to locate the lost data
- (C) Time required to delete the specific data
- (D) Time required to locate the data

65. Consider the following two lists:

List 1	List 2
(i) WWW	(a) Website address
(ii) URL	(b) 192.168.101.3
(iii) IP address	(c) Internet Service Provider
(iv) ISP	(d) World Wide Web

- (A) i-d, ii-e, iii-b, iv-a
- (B) i-d, ii-a, iii-b, iv-c
- (C) i-c, ii-e, iii-b, iv-c
- (D) i-b, ii-c, iii-d, iv-a

66. Which of the following is NOT a number system?

- (A) Positional
- (B) Octal
- (C) Binary
- (D) Fractional

67. The number of distinct symbols used in a number system is called:

- (A) Complement
- (B) Base
- (C) Encode
- (D) Decode

68. The type of memory that can be erased by exposing it to ultraviolet light for a certain amount of time is called:

- (A) PROM
- (B) EPROM
- (C) Flash Memory
- (D) ROM

69. Which of the following techniques is best suited for bank cheques?

- (A) OCR
- (B) OMR
- (C) BAR Code
- (D) MICR

70. The octal equivalent of hexadecimal number 4DF is:

- (A) 1736
- (B) 3176
- (C) 2337
- (D) 1037

71. One byte can be used to encode any integer between 0 and:

- (A) 16
- (B) 128
- (C) 256
- (D) 255

72. A group of four bits is called:
- (A) Byte
 - (B) Nibble
 - (C) KB
 - (D) MB
73. Two's complement of 110010 is:
- (A) 001101
 - (B) 001111
 - (C) 000111
 - (D) 001110
74. Addition of 100111 and 110111 is:
- (A) 1000010
 - (B) 1000110
 - (C) 110011
 - (D) 1000111
75. $1810 - 410 = \underline{\hspace{2cm}}$ (in binary)
- (A) 1110
 - (B) 1010
 - (C) 1011
 - (D) 1000
76. Division of 100011 by 101 is:
- (A) 110
 - (B) 011
 - (C) 111
 - (D) 101
77. The graphical symbol on the desktop to represent an application is called:
- (A) Wallpaper
 - (B) Icon
 - (C) Desktop image
 - (D) Screen saver
78. The Operating System that allows only one program to run at a time is a _____ Operating System.
- (A) Embedded
 - (B) Real-Time
 - (C) Batch Processing
 - (D) Multi-tasking
79. The primary goal of a time-sharing Operating System is:
- (A) To maximize the user response time
 - (B) To minimize the CPU usage
 - (C) To maximize the memory usage
 - (D) To minimize the throughput

80. The Operating System that is self-contained in a device and resident in ROM is called:

- (A) Batch Processing System
- (B) Real-time Operating System
- (C) Embedded Operating System
- (D) Multiprocessing Operating System

SECTION D: GENERAL KNOWLEDGE & CURRENT AFFAIRS (Q. 81 – 100)

81. 'World Beneath His Feet' is a biography of:

- (A) Sachin Tendulkar
- (B) Ajit Wadekar
- (C) Nawab Pataudi
- (D) Leander Paes

82. Under the leadership of which Prime Minister did India conduct its first Nuclear Test in Pokhran, Rajasthan with the code name 'Smiling Buddha'?

- (A) Jawaharlal Nehru
- (B) L. K. Gujral
- (C) Indira Gandhi
- (D) Atal Bihari Vajpayee

83. Match the following books with their authors:

List I (Books)	List II (Authors)
(a) Crystallising Public Opinion	(i) Sandra Oliver
(b) The Power of Corporate Communication	(ii) Edward L. Bernays
(c) Effective Public Relations	(iii) Scott M. Cutlip
(d) Public Relation Strategies	(iv) Paul A. Argentina

- (A) a-i, b-iii, c-ii, d-iv
- (B) a-iii, b-ii, c-i, d-iv
- (C) a-ii, b-iv, c-iii, d-i
- (D) a-i, b-iv, c-ii, d-iii

84. Given below are two statements:

Statement I: Classical smog is formed when oxides of nitrogen combine with particulate matter, especially in summer season.

Statement II: Classical smog reduces atmospheric visibility to a great extent.

In the light of the above statements, choose the correct answer:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true and Statement II is false
- (D) Statement I is false but Statement II is true

85. Consider the following pairs:

Place of Pilgrimage	Location
(a) Srisailam	Nallamalla Hills
(b) Omkareshwar	Satmala Hills
(c) Pushkar	Chamundi Hills

Which of the above pair/pairs is/are correctly matched?

- (A) a only
 - (B) b and c only
 - (C) a and c only
 - (D) a, b and c
86. In the context of intercultural communication, what is 'ethnocentrism'?
- (A) The tendency to understand and respect all cultures
 - (B) The belief in the superiority of one's own culture
 - (C) The ability to communicate effectively across cultures
 - (D) The practice of adopting multiple cultural norms
87. Headquarters of 'World Anti-Doping Agency' is located at:
- (A) Montreal, Canada
 - (B) Cape Town, South Africa
 - (C) Montevideo, Uruguay
 - (D) Tokyo, Japan
88. The Kyoto Protocol introduced three flexible mechanisms to help countries achieve their emission targets. Which of the following is NOT one of them?
- (A) Joint Implementation
 - (B) Carbon Capture and Storage
 - (C) Clean Development Mechanism
 - (D) Emissions Trading
89. Jamnalal Bajaj Award honours individuals for their exceptional contributions primarily in which area?
- (A) Rural Housing
 - (B) Rural Electrification
 - (C) Urban Housing
 - (D) Urban Transport
90. Read the following statements about the Tashkent Declaration and identify the **incorrect** statement:
- (A) It was signed between India and Pakistan on 10th January 1966 to resolve the issues of the India-Pakistan war of 1965.
 - (B) The signatories were Prime Minister Indira Gandhi of India and President Ayub Khan of Pakistan.
 - (C) The meeting was held in Tashkent in the former U.S.S.R.
 - (D) The meeting was held under the terms of the Indo-Soviet Treaty of Peace, Friendship, and Cooperation.

91. Consider the following statements about a solar scheme:

- A. It is the world's largest domestic rooftop solar initiative with a bold vision to supply solar power to one crore households by March 2027.
- B. It aims to provide free electricity to households.
- C. Households will have access to collateral-free, interest-free loans (0% interest) for installation of residential rooftop solar systems up to 5 kW.
- D. The transition to solar energy under this scheme will help lower carbon emissions.

How many of the above statements are correct?

- (A) All of them are correct
- (B) Only 2 statements are correct
- (C) Only 3 statements are correct
- (D) Only 1 statement is correct

92. Consider the following statements related to Bharat 6G Alliance (B6GA):

- A. To enable India to become a leading global supplier of IP, products and solutions of affordable 5G and 6G and other future telecom solutions.
- B. To deploy 6G technologies to act as a powerful force multiplier for India by 2030.
- C. To build coalitions with similar 6G Global Alliances and other global technology alliances.
- D. To address India's priorities for contribution to 6G and other future technology-related global standards, deployments, products, operations, and services.

How many of the above statements are correct?

- (A) All of them are correct
- (B) Only 2 statements are correct
- (C) Only 3 statements are correct
- (D) Only 1 statement is correct

93. Consider the following statements about the 'Coercive Actions' Ordinance, 2025:

- A. This was brought to protect economically vulnerable groups from coercive means of recovery by Micro Finance Institutions or Money Lending Agencies.
- B. The provisions of this Ordinance do not apply to banking or NBFCs registered with RBI.
- C. All MFIs/MLAs shall apply for registration before the Registering Authority of the district within ninety days from the date of commencement of this Ordinance.
- D. An Ombudsperson will be appointed by the Government to act as mediator between borrower and lender for settling disputes.

How many of the above statements are correct?

- (A) Only 3 statements are correct
- (B) Only 2 statements are correct
- (C) Only 1 statement is correct
- (D) All of them are correct

94. Which of the following states has the richest resources and biodiversity such as coral reef, sea grass and other marine flora and fauna?

- (A) Tamil Nadu
- (B) West Bengal
- (C) Karnataka
- (D) Gujarat

95. Consider the following statements related to National Critical Mineral Mission (NCMM):

- A. It is one of the initiatives under Atmanirbhar Bharat.
- B. It was launched to build a resilient value chain for critical mineral resources vital to Green Technologies.
- C. It will encompass all stages of the value chain including mineral exploration, mining, beneficiation, processing, and recovery from end-of-life products.
- D. It aims to encourage Indian PSUs and private sector companies to acquire critical mineral assets abroad, enhance trade with resource-rich countries, and develop a domestic stockpile.

How many of the above statements are correct?

- (A) All of them are correct
- (B) Only 3 statements are correct
- (C) Only 2 statements are correct
- (D) Only 1 statement is correct

97. In which Indian state is the 'Flamingo Festival' celebrated?

- (A) Rajasthan
- (B) Manipur
- (C) Andhra Pradesh
- (D) Assam

98. Consider the following events in the history of India:

- a. Rise of Pratiharas under the rule of King Bhoja.
- b. Establishment of Pallava power under Mahendravarma-I.
- c. Establishment of Chola power by Parantaka-I.

What is the correct chronological order starting from the earliest?

- (A) b – a – d – c
- (B) c – a – d – b
- (C) c – d – a – b
- (D) c – d – a – b

99. **Assertion (A):** The problem of organic pollution in rivers is usually worse in the hot summer months.

Reason (R): Higher water temperatures exacerbate oxygen depletion.

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is not correct
- (D) (A) is false but (R) is correct

100. **Assertion (A):** The Government cannot directly restrict one freedom by permitting another freedom.

Reason (R): Clause of Article 19 of the Indian Constitution provides equal opportunity for every type of freedom.

- (A) Both (A) and (R) are true
- (B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- (C) (A) is true, but (R) is false
- (D) (A) is false, but (R) is true