

**CAREER ACADEMY TALENT SEARCH EXAM
CLASS-8TH (SET-A)**

SCIENCE

1. Friction is a type of:
(A) Contact force (B) Non-contact force
(C) Resistance force (D) Motion
2. Which of the following can be beaten into thin sheet:-
(A) Coal (B) Phosphorus
(C) Aluminum (D) Sulphur
3. More soil erosion occurs where there is-
(A) No rainfall (B) Low rainfall
(C) High rainfall (D) None
4. Which of the following would not be considered part of a cell's cytoplasm?
(A) Ribosome (B) Nucleus
(C) Mitochondrion (D) Microtubule
5. SI unit of force of friction is
(A) N (B) kg wt.
(C) $kgms^{-1}$ (D) None of these
6. The metal which does not react with air :-
(A) Sodium (B) Calcium
(C) Gold (D) Aluminum
7. Which is most suitable soil for plant growth?
(A) Gravel (B) Loam
(C) Sand (D) Clay
8. Plants and animals are best protected in-
(A) Sanctuaries (B) Botanical gardens
(C) Zoos (D) National parks
9. The surface of the head of a match stick and sides of a match box are deliberately made rough to:
(A) Increase friction
(B) Decrease friction
(C) Increase amount
(D) Decrease amount of heat

10. Corrosion is a –
(A) Reduction reaction
(B) Oxidation reaction
(C) Redox reaction
(D) Displacement reaction

ANSWER-KEY

- 1.(A) 2.(C) 3.(C) 4.(B) 5.(A) 6.(C)
7.(B) 8.(D) 9.(A) 10.(B)**

SOCIAL SCIENCE

11. The Champaran movement was against
(A) Peasants
(B) East India Company
(C) The oppressive attitude of Indigo planters.
(D) None of these.
12. In which year was the permanent settlement system started?
(A) 1900 (B) 1885
(C) 1890 (D) 1793
13. The rights provided by constitution are called
(A) Government Rights
(B) Optional rights
(C) Economic Rights
(D) Fundamental rights
14. Name the country with the largest producer of iron ore
(A) Africa (B) Australia
(C) Brazil (D) America
15. Resources that are found everywhere are termed as
(A) localized (B) biotic
(C) ubiquitous (D) non-renewable
16. Value means
(A) Utility (B) Worth
(C) Money (D) Wealth

**CAREER ACADEMY TALENT SEARCH EXAM
CLASS-8TH (SET-A)**

17. Secularism means that the state promotes
(A) One religion (B) Both a and b
(C) No religion (D) None of these
18. When did Tipu Sultan become the ruler of Mysore?
(A) 1781 (B) 1780
(C) 1779 (D) 1782
19. Growers of wood in Europe saw crop as Competition to their Earnings
(A) Tea (B) Rubber
(C) Indigo (D) Coffee
20. Which actress got Dada Sahib Falke award in 2022?
(A) Wahida Rehman (B) Asha Parekh
(C) Sachin Tendulkar (D) Asha Bhonsle

ANSWER-KEY

- 11.(C) 12.(D) 13.(D) 14.(B) 15.(C)
16.(B) 17.(C) 18.(D) 19.(C) 20.(B)

MATHEMATICS

21. What should be subtracted from $\frac{-7}{11}$ to get -2 ?
(A) $\frac{15}{11}$ (B) $\frac{-15}{11}$
(C) $\frac{29}{11}$ (D) $\frac{-29}{11}$
22. Evaluate $m = ? \left(\frac{-1}{7}\right)^{3m+1} = \left(\frac{-1}{7}\right)$
(A) 0 (B) 1
(C) -1 (D) None of these
23. $(4a^2 - 64) \div (2a + 8)$
(A) $2a - 4$ (B) $2a$
(C) $2a - 8$ (D) $2a^2 + 4$
24. The square root of 1.21 is
(A) 1.1 (B) 11
(C) 21 (D) 2.1

25. Sum of two numbers is 95. If one exceeds the other by 15, find the numbers.
(A) 40 and 60 (B) 50 and 55
(C) 50 and 60 (D) 40 and 55
26. If $(2744)^{\frac{1}{3}} = 2p + 2$, then the value of p is
(A) 3 (B) 6
(C) 2 (D) 8
27. The cost of 5 meters of a particular quality of cloth is Rs 210. Find the cost of 2 meters of cloth of the same type.
(A) Rs 100 (B) Rs 84
(C) Rs 90 (D) Rs 60
28. Which of the following is divisible by 12?
(A) 284382 (B) 624876
(C) 926248 (D) 746174
29. Amina thinks of a number and subtracts $\frac{5}{2}$ from it. She multiplies the result by 8. The result now obtained is 3 times the same number she thought of. What is the number?
(A) 2 (B) 3
(C) 4 (D) none of these
30. Which number is in the middle if $\frac{-1}{6}, \frac{4}{9}, \frac{6}{-7}, \frac{2}{5}$ and $\frac{-3}{4}$ arranged in Descending order?
(A) $\frac{2}{5}$ (B) $\frac{4}{9}$
(C) $\frac{-1}{6}$ (D) $\frac{-6}{7}$

ANSWER-KEY

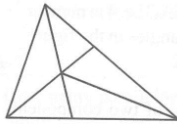
- 21.(A) 22.(A) 23.(C) 24.(A) 25.(D)
26.(B) 27.(B) 28.(B) 29.(C) 30.(C)

MENTAL ABILITY

- 31.** A and B ARE brothers. C and D are sisters. A's son is D's brother. How is B related to C?
 (A) Father (B) Brother
 (C) Grandfather (D) Uncle

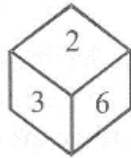
- 32.** If RADIO is written PYBGM, then how would OQDKNG be written in that code?
 (A) MOBIEL (B) MOBLIE
 (C) MOIBLE (D) MOBILE

- 33.** How many triangles are there in the following figure?



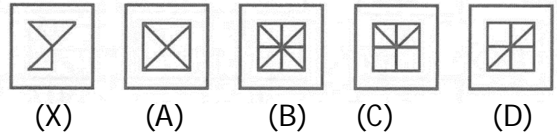
- (A) 6 (B) 10
 (C) 11 (D) 12

- 34.** Which number is opposite 2 in a standard dice given below?
 (A) 1
 (B) 5
 (C) 6
 (D) Cant 'be determine



- 35.** One day, Ravi left home and cycled 10 km southwards, turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. How many kilometers will he have to cycle to reach his home straight?
 (A) 10km (B) 15km
 (C) 20km (D) 25km

- 36.** In each of the following examples, figure (x) is embended in any one of the four alternative figures (1), (2), (3) or (4). Find the alternative which contains figure (x) as its part.



- 37.** 7, 17, 31, 49....., 97, 127
 (A) 59 (B) 61
 (C) 71 (D) 87
- 38.** If 'R' means ' \div ', 'Q' means ' \times ', 'P' means '+' then $18 R 9 P 2 Q 8 = ?$
 (A) 18 (B) 16
 (C) 28 (D) 30

- 39.** Mirror image of QUALITY
 (A) QUNVILΛ (B) YTILAUQ
 (C) YTLJAUQ (D) YTLJAUQ

- 40.**
 (A) 16 (B) 8
 (C) 48 (D) 10

ANSWER-KEY

- 31.(D) 32.(D) 33.(D) 34.(B) 35.(B)
 36.(B) 37.(C) 38.(A) 39.(C) 40.(B)**

SCIENCE

1. It is difficult to walk on ice because of
(A) absence of friction
(B) Absence of inertia
(C) More inertia
(D) more friction
2. A contact force cannot act through
(A) Empty space
(B) Touching
(C) Touching with a metal rod
(D) Touching with a wooden rod
3. Which among the following will exert maximum pressure when pushed with the same amount of force?
(A) An eraser of area 2 cm^2
(B) A sharpened pencil tip
(C) The blunt end of a pencil
(D) The rear portion of a closes safety pin.
4. Which fuel have more calorific value?
(A) Wood (B) Coal
(C) Kerosene (D) LPG
5. Which is a zone of no combustion?
(A) Blue zone
(B) Dark zone
(C) Luminous zone
(D) All of the above
6. The heat and light that come from burning materials is known as :
(A) Fire (B) Fuel
(C) Flame (D) All of these
7. 5th June is –
(A) World population day
(B) World health day
(C) World environment day
(D) World animal day
8. Forests control drought through-
(A) Increasing rainfall

- (B) Functioning as water shed
(C) Large trees
(D) Retention of water and prevention of soil erosion

9. Identify human cells which lack nucleus–
(A) WBC
(B) RBC
(C) Platelets
(D) Nerve cells
10. Which one is not a part of nucleus?
(A) Chromatin
(B) Nucleolus
(C) Centrosome
(D) Nucleoplasm

ANSWER KEY

- 1.(A) 2.(A) 3.(D) 4.(D) 5.(B)
6.(C) 7.(C) 8.(A) 9.(B) 10.(C)**

SOCIAL SCIENCE

11. How much proportion indigo was imported from India by Britain in 1810?
(A) 75% (B) 95%
(C) 90% (D) 85%
12. What is the literal meaning of the Greeks word indikon?
(A) Blue
(B) Dye
(C) From India
(D) From England
13. Which of the following is an example of Human Resources?
(A) Forests
(B) Latest Technologies
(C) People
(D) Animal and birds
14. What is the process in which minerals lying near the surface are dry?

**CAREER ACADEMY TALENT SEARCH EXAM
CLASS-8TH (SET-B)**

- (A) Drilling
(B) Off-shore drilling
(C) Quaring
(D) Extraction
15. From where did immigrants come to France in 1960's?
(A) Algeria
(B) Tunisia
(C) Morocco
(D) All of the above
16. Who is the father of the Indian Constitution?
(A) Mahatma Gandhi
(B) Pt. Jawahar Lal Nehru
(C) Sardar Patel
(D) Dr. B.R. Ambedkar
17. What defines the introduction to our constitution?
(A) Preamble
(B) Equality
(C) Sovereignty
(D) None of these.
18. East India Company got Diwani of Bengal in
(A) 1762 (B) 1765
(C) 1770 (D) 1764
19. Who was the first Governor General of India
(A) Warren Hastings
(B) Charles Corn Wallis
(C) Louis chole
(D) George Martin
20. How many states and union Territories in India at present
(A) 28 states 8 union Territories
(B) 29 states 7 union Territories
(C) 27 states 9 union Territories
(D) 26 states 6 union Territories

ANSWER KEY

- 11.(B) 12.(C) 13.(C) 14.(C) 15.(A)
16.(D) 17.(A) 18.(B) 19.(A) 20.(A)

MATHEMATICS

21. What is the sum of the additive inverse and multiplicative inverse of 2?
(A) $\frac{3}{2}$ (B) $\frac{-3}{2}$
(C) $\frac{1}{2}$ (D) $\frac{-1}{2}$
22. Evaluate the exponential expression $(-n)^4 \times (-n)^2$, for $n=5$
(A) 25 (B) 15625
(C) 3125 (D) 625
23. $32 + m$ is a prime number. What is the least value of 'm'?
(A) 3 (B) 5
(C) 6 (D) 4
24. Evaluate $m \left(\frac{1}{8}\right)^{-2m+5} = 2$
(A) $\frac{8}{3}$ (B) $\frac{-8}{3}$
(C) $\frac{3}{8}$ (D) $\frac{-3}{8}$
25. If $7x - 3(2x + 1) = 7$

and $\frac{y}{5} + 5 = 9$, then $\frac{xy}{(x+y)}$ is
(A) $\frac{9}{40}$ (B) $\frac{40}{9}$
(C) $\frac{20}{3}$ (D) $\frac{3}{20}$
26. The square of a natural number subtracts from its cube comes 100. The number is ____.
(A) 2 (B) 3
(C) 5 (D) 1
27. What are the factors of $x^2 + xy - 2xz - 2yz$?
(A) $(x - y)$ and $(x + 2z)$
(B) $(x + y)$ and $(x - 2z)$

**CAREER ACADEMY TALENT SEARCH EXAM
CLASS-8TH (SET-B)**

- (C) $(x - y)$ and $(x - 2z)$
(D) $(x + y)$ and $(x + 2z)$

28. Find the cube root of 0.001331
(A) 0.111 (B) 0.101
(C) 0.11 (D) none of these
29. Which of the following statements is false?
(A) If a number is divisible by 8, it must be divisible by 4.
(B) If a number is divisible by both 9 and 10, it is divisible by 90
(C) The sum of two consecutive odd numbers is always divisible by 4.
(D) If a number is not divisible by both 3 and 4, it is divisible by 12.
30. The value of $\sqrt{312 + \sqrt{135 + \sqrt{81}}}$ is
(A) 13 (B) 16
(C) 18 (D) 21

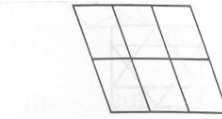
ANSWER KEY

- 21.(B) 22.(B) 23.(B) 24.(A) 25.(C)
26.(C) 27.(B) 28.(C) 29.(D) 30.(C)

MENTAL-ABILITY

31. Pointing to a woman, Neeraj said " She is the daughter of my wife's daughter."How is the woman related to Neeraj?
(A) Wife
(B) Daughter
(C) Sister
(D) Grand Daughter
32. If ROAST is coded as POYUR in a certain language, then how will SLOPPY be coded in that language?
(A) MRNAQN
(B) NRMNQA
(C) QNMRNA
(D)RANNMQ

33. Determine the number of parallelogram in the following figure:



- (A) 14 (B) 17
(C) 18 (D) 19
34. Which number will come opposite to number 2?
(A) 5 (B) 1
(C) 6 (D) 3
35. I went 15m to the North, then turned West and covered 10m, then turned South, and covered 5m then turned East and covered 10m. In which direction am I now from my house
(A) North (B) South
(C) East (D) West
36. In each of the following examples, figure (x) is embedded in any one of the four alternative figures (1), (2), (3) or (4). Find the alternative which contains figure (x) as its part.
- (X)

(1)

(2)

(3)

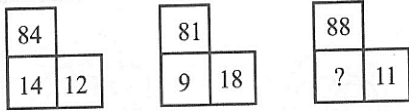
(4)
37. 10, 2, 20, 3, 30, 4,.....
(A) 40 (B) 50
(C) 60 (D) 70
38. If A stands for +, B stands for -, C stands for \times , then what is the value of $(10 C 4) A (4 C 4) B 6$?
(A) 60 (B) 56
(C) 50 (D) 46
39. Which of the following collections of letters will look same in the mirror?
(A) OSMIHOM
(B) VHRTRVH

CAREER ACADEMY TALENT SEARCH EXAM
CLASS-8TH (SET-B)

- (C) HIMOSTA
(D) AOVIVOA

DIRECTION-VENN DIAGRAM

40.



- (A) 16 (B) 21
(C) 81 (D) 24

ANSWER KEY

- 31.(D) 32.(C) 33.(C) 34.(A) 35.(A)
36.(B) 37.(A) 38.(C) 39.(D) 40.(A)