

Section A: Mathematics (20 questions)

1.

What is the least common multiple (LCM) of 12, 18 and 30?

(A) 60 (B) 90 (C) 120 (D) 180

2.

The HCF of 36 and 60 is:

(A) 6 (B) 12 (C) 18 (D) 24

3.

$5\frac{3}{8} + 3\frac{1}{16} = 8\frac{5}{8} + 1\frac{1}{16} = 9\frac{11}{16}$

(A) $11\frac{1}{16}$ (B) $13\frac{1}{16}$ (C) $7\frac{7}{8}$ (D) $12\frac{1}{2}$

4.

$\frac{3}{4}$ of 48 is:

(A) 36 (B) 32 (C) 30 (D) 34

5.

If $x:y=3:5$ and $x+y=40$, then $y=$

(A) 25 (B) 24 (C) 20 (D) 15

6.

A shopkeeper gives 10% discount on an item whose original price is Rs. 400. What is the sale price?

(A) Rs. 360 (B) Rs. 380 (C) Rs. 350 (D) Rs. 370

7.

Simplify: $15 + 2 \times (9 - 4) \div 5$ using BODMAS.

(A) 17 (B) 23 (C) 19 (D) 21

8.

The area of a rectangle is 60 cm^2 , and its length is 12 cm. Its breadth is:

(A) 4 cm (B) 5 cm (C) 6 cm (D) 8 cm

9.

The perimeter of a square is 48 cm. Its side length is:

(A) 10 cm (B) 12 cm (C) 14 cm (D) 16 cm

10.

What is the volume (in cubic cm) of a cuboid measuring 5 cm × 4 cm × 3 cm?

(A) 60 (B) 20 (C) 12 (D) 120

11.

Which of the following is a prime number?

(A) 51 (B) 57 (C) 59 (D) 65

12.

Convert 0.75 to fraction.

(A) $3\frac{3}{4}$ (B) $7\frac{10}{10}$ (C) $2\frac{2}{5}$ (D) $4\frac{4}{5}$

13.

If Mary buys 3 pens costing Rs. 15 each and 2 pencils costing Rs. 6 each, total cost is:

(A) Rs. 57 (B) Rs. 45 (C) Rs. 51 (D) Rs. 48

14.

Which angle is supplementary to a 70° angle?

(A) 20° (B) 110° (C) 120° (D) 100°

15.

The measure of a right angle is:

(A) 45° (B) 60° (C) 90° (D) 180°

16.

If you subtract 27 from 100, then divide the result by 7, you get:

(A) 10.429 (B) 10.5 (C) 10 (D) 9.571

17.

Which is larger: $5\frac{5}{9}$ or $4\frac{4}{7}$?

(A) $5\frac{5}{9}$ (B) $4\frac{4}{7}$ (C) equal (D) can't say

18.

A train travels 120 km in 2 hours. Its speed is:

(A) 50 km/h (B) 60 km/h (C) 70 km/h (D) 80 km/h

19.

$(2.5+1.75)-0.8=(2.5 + 1.75) - 0.8 =(2.5+1.75)-0.8=$

(A) 3.45 (B) 3.25 (C) 3.0 (D) 2.95

20.

What is 5% of 600?

(A) 20 (B) 25 (C) 30 (D) 35

Section B: Intelligence / Reasoning (20 questions)

1.

Find the odd one out:

(A) DOG (B) CAT (C) BIRD (D) FISH

2.

Which figure completes the series? (Assume a pattern: □ □ □ □ □ □ □ ?)

(A) □ (B) □ (C) □ (D) □

3.

In a certain code, if "CAT" is coded as "3120" and "DOG" as "4157", then how is "BAT" coded?

(A) 2120 (B) 3121 (C) 4120 (D) 2130

4.

If $16 + 7 = 81$, $12 + 5 = 49$, then $8 + 9 = ?$ (using the same pattern)

(A) 119 (B) 153 (C) 153 (D) 121

5.

A is father of B. C is brother of B. D is son of C. How is D related to A?
(A) Grandson (B) Son (C) Nephew (D) Grandfather

6.

5, 10, 20, 40, __, 160 — the missing term is:
(A) 60 (B) 80 (C) 90 (D) 100

7.

In a row of children, R is 10th from left and 15th from right. How many children are there?
(A) 24 (B) 25 (C) 26 (D) 27

8.

If in a certain code, "MOUSE" becomes "PNVUH", then "CAT" becomes:
(A) FDW (B) FDU (C) FDV (D) FDU

9.

Complete the analogy: Bird : Nest :: Bee : __
(A) Tree (B) Hive (C) Honey (D) Flower

10.

Which word is the odd one out?
(A) Apple (B) Mango (C) Banana (D) Chair

11.

If you reverse the digits of 45 you get 54, $45 + 54 = 99$. Similarly, $23 + 32 = ?$
(A) 55 (B) 45 (C) 66 (D) 44

12.

Which of the following is not a square in number sequence:
1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225, 256, 289, 324
(A) 289 (B) 324 (C) 225 (D) 256

13.

If "STAR" is coded as "TSAR", then "MOON" is coded as:
(A) NOOM (B) OOMN (C) NOOM (D) NOMO

14.

A clock shows 3:15. The minute hand and hour hand make an angle. That angle is (approximately):

(A) 0° (B) 7.5° (C) 15° (D) 30°

15.

Which of the following completes the sequence: 2, 5, 10, 17, __, 37

(A) 25 (B) 26 (C) 28 (D) 30

16.

If $7 + 8 = 16$ in that system, then $6 + 5 = ?$

(A) 10 (B) 11 (C) 13 (D) 12

17.

In the English alphabet, what is 4th to the right of J?

(A) N (B) M (C) O (D) L

18.

Which is mirror image of "E3F"?

(A) F3E (B) E3F (C) Ǝ3F (D) FƎ3

19.

In a family, "R" is son of "Q". "Q" is daughter of "P". How is "R" related to "P"?

(A) Grandson (B) Granddaughter (C) Son (D) Daughter

20.

Which of the following shapes has no line of symmetry?

(A) Circle (B) Square (C) Rectangle (D) Scalene triangle

Section C: English / Language (20 questions)

1.

Read the sentence:

"My sister ——— piano very well."

Which word fills the blank?

(A) plays (B) played (C) is playing (D) play

2.

Choose the correct article:

"She bought — unicorn toy."

(A) a (B) an (C) the (D) — (no article)

3.

Which is the correct plural of "child"?

(A) childs (B) children (C) childes (D) childrens

4.

Choose the antonym of "generous":

(A) kind (B) selfish (C) helpful (D) gentle

5.

Which pronoun correctly completes the sentence:

"The book is mine, not —."

(A) yours (B) your (C) you (D) you're

6.

Choose the correct preposition:

"She lives — London."

(A) in (B) at (C) on (D) by

7.

Rearrange to make meaningful sentence:

"every / watches / he / morning / television / the"

- (A) He watches the television every morning.
- (B) Every morning he watches the television.
- (C) He every morning watches the television.
- (D) Watches he every morning the television.

8.

Fill in the blank with the correct conjunction:

"I wanted to go, — it was raining."

(A) so (B) and (C) but (D) because

9.

Which is the correct comparative form?

(A) more better (B) better (C) gooder (D) more good

10.

Which of the following is an interjection?

(A) and (B) but (C) oh (D) when

11.

Change to negative: "He is playing."

(A) He is not playing. (B) He not is playing.
(C) He isn't playing. (D) Both A & C

12.

Choose the option to correct the sentence:

"She don't like apples."

(A) She doesn't like apples. (B) She doesn't likes apples.
(C) She don't likes apples. (D) She doesn't liking apples.

13.

Fill in the blank:

"Do you remember — we first met?"

(A) which (B) when (C) that (D) whose

14.

Which is the correct spelling?

(A) accomodate (B) accommodate (C) acommodate (D) acomadate

15.

Choose the correct "confusing word" usage:

(A) Their coming tomorrow.
(B) They're coming tomorrow.
(C) There coming tomorrow.

(D) Their coming tomorrow.

16.

Identify the adjective in the sentence:

"The red balloon floated away."

(A) balloon (B) floated (C) away (D) red

17.

Fill in the blank with correct verb form:

"He — his homework yesterday."

(A) do (B) did (C) does (D) doing

18.

Which is the correct question tag?

"You like chocolate, —?"

(A) don't you (B) do you (C) doesn't you (D) you don't

19.

Change to passive voice: "The cat chased the mouse."

(A) The mouse chased the cat.

(B) The mouse was chased by the cat.

(C) The mouse is chased by the cat.

(D) The cat was chased by the mouse.

20.

What is the plural of "analysis"?

(A) analyses (B) analyses (C) analysis (D) analysi

Section D: General Knowledge / Science & Social Studies (20 questions)

1.

Which gas do humans inhale for survival?

(A) Carbon dioxide (B) Nitrogen (C) Oxygen (D) Hydrogen

2.

The national emblem of India is —

(A) Lion Capital of Ashoka (B) Peacock (C) Banyan tree (D) Lotus

3.

Which of the following is a nonrenewable source of energy?

(A) Solar energy (B) Wind energy (C) Coal (D) Geothermal energy

4.

Who is known as the “Father of the Nation” in India?

(A) Jawaharlal Nehru (B) Mahatma Gandhi (C) Subhas Chandra Bose (D) Sardar Patel

5.

What do plants absorb from soil for their growth?

(A) Oxygen (B) Minerals (C) Carbon dioxide (D) Nitrogen gas

6.

The process by which plants make their food is called:

(A) Respiration (B) Photosynthesis (C) Digestion (D) Transpiration

7.

Which planet is known as the Red Planet?

(A) Earth (B) Mars (C) Venus (D) Jupiter

8.

The Great Wall of China is located in which country?

(A) India (B) China (C) Japan (D) Russia

9.

What does “H₂O” stand for?

(A) Hydrogen (B) Water (C) Carbon Dioxide (D) Helium

10.

Which is the largest continent by area?

(A) Africa (B) Asia (C) North America (D) Europe

11.

Who wrote the "National Anthem" of India?

(A) Rabindranath Tagore (B) Bankim Chandra Chatterjee (C) Kavi Pradeep (D) Subramania Bharati

12.

Which animal is known as the "King of the Jungle"?

(A) Elephant (B) Tiger (C) Lion (D) Leopard

13.

The instrument used to measure temperature is:

(A) Barometer (B) Thermometer (C) Altimeter (D) Hygrometer

14.

The equator divides Earth into:

(A) East and West (B) North and South (C) Upper and Lower (D) Northern and Southern Hemispheres

15.

Which day is celebrated as "World Environment Day"?

(A) 5 June (B) 15 August (C) 22 April (D) 2 October

16.

What is the smallest unit of life?

(A) Organ (B) Cell (C) Tissue (D) Organ system

17.

Where is the Taj Mahal located?

(A) Delhi (B) Agra (C) Jaipur (D) Lucknow

18.

Which of the following is part of the digestive system?

(A) Heart (B) Lungs (C) Stomach (D) Brain

19.

Which of the following is a major river in India?

(A) Nile (B) Amazon (C) Ganga (D) Mississippi

20.

Which of the following is a renewable resource?

(A) Coal (B) Natural gas (C) Wind (D) Petroleum