



SAMPLE PAPER

GRADE– 7th

SECTION – A (English)

1. Choose the correct indirect speech for this command.

The instructor said, 'Cadets, fall in immediately!'

- (A) The instructor ordered the cadets to fall in immediately.
- (B) The instructor said to the cadets to fall in immediately.
- (C) The instructor commanded the cadets that they should fall in immediately.
- (D) The instructor told the cadets fall in immediately.

2. What is the active voice of this sentence?

'The new tactical protocols are being implemented by the command.'

- (A) The command implemented the new tactical protocols.
- (B) The command is implementing the new tactical protocols.
- (C) The command has implemented the new tactical protocols.
- (D) The command implements the new tactical protocols.

3. Which word below is always treated as an uncountable noun in standard English?

- (A) Equipments (B) Furnitures (C) Information (D) Machineries

4. Fill in the blank with the right question word.

'_____ do you consider to be the most capable leader?'

- (A) Who (B) Whom (C) Whose (D) Which

5. Look at this sentence :

'If he had trained harder, he would have passed the physical.' What tense is used in the first half (the 'if' clause)?

- (A) Past Perfect (B) Simple Past (C) Past Continuous (D) Present Perfect

6. **'She spoke so softly that I could barely hear her.' In this sentence, what part of speech is 'that'?**

- (A) Relative Pronoun (B) Demonstrative Adjective
- (C) Subordinating Conjunction (D) Adverb

7. Read this: **'He is an up train passenger.'** What is the word 'up' doing here?

- (A) Acting as a preposition (B) Acting as an adverb
- (C) Acting as an adjective (D) Acting as a noun

8. Which of these sentences uses a reflexive pronoun correctly?

- (A) The manager and myself will review the report.
- (B) She prided herself on her sharp marksmanship.
- (C) They sent the invitations to John and myself.
- (D) Himself did all the rigorous exercises.

9. Change this question into reported speech.

He said to me, 'Do you know the way to the headquarters?'

- (A) He asked me if I knew the way to the headquarters.
- (B) He asked me if I know the way to the headquarters.
- (C) He asked me whether I had known the way to the headquarters.
- (D) He told me do I know the way to the headquarters.

10. In which sentence has the writer incorrectly added an extra preposition?

- (A) He discussed about the new strategy.
- (B) She ordered a cup of tea.
- (C) They reached the destination safely.
- (D) We approached the principal.

SECTION – B (General Knowledge)

11. Which of the following is the correct order of the major domains of the Earth?

- (A) Lithosphere, Hydrosphere, Atmosphere, Biosphere
- (B) Atmosphere, Lithosphere, Biosphere, Hydrosphere
- (C) Hydrosphere, Atmosphere, Lithosphere, Biosphere
- (D) Biosphere, Hydrosphere, Atmosphere, Lithosphere

12. The solid outer part of the Earth is known as:

- (A) Atmosphere
- (B) Lithosphere
- (C) Hydrosphere
- (D) Biosphere

13. Panchayat Samiti functions at the:

- (A) Village level
- (B) Block level
- (C) District level
- (D) State level

14. Zila Parishad functions at the:

- (A) Village level
- (B) Block level
- (C) District level
- (D) National level

15. Which Harappan site is famous for its dockyard?

- (A) Lothal
- (B) Dholavira
- (C) Rakhigarhi
- (D) Banawali

16. The Harappan cities were mainly famous for their:

- (A) Huge temples
- (B) Planned drainage system
- (C) Iron weapons
- (D) Stone caves

17. Climate differs from weather mainly because climate refers to:

- (A) Conditions changing every hour
- (B) Only rainfall conditions
- (C) Long-term patterns of weather
- (D) Only temperature conditions

18. A market mainly connects:

- (A) Only producers
- (B) Only consumers
- (C) Buyers and sellers
- (D) Banks and governments only

19. Which situation is an example of indirect exchange?

- (A) Wheat exchanged directly for rice
- (B) A farmer sells wheat for money and uses the money to buy clothes
- (C) Two people exchange books
- (D) A child exchanges a pencil for an eraser

20. India is called a diverse country mainly because:

- (A) Everyone follows the same culture
- (B) People have different languages, religions, food habits and traditions
- (C) Only one language is spoken
- (D) People live in only one geographical region

SECTION – C (General Science)

- 21. Cuscuta (Amarbel) is an example of an organism that derives nutrition from another living plant without giving any benefit in return. What type of nutrition is this?**
(A) Saprotrophic nutrition (B) Autotrophic nutrition
(C) Parasitic nutrition (D) Symbiotic relationship
- 22. In the human digestive system, the inner walls of the small intestine have thousands of finger-like outgrowths called villi. What is the primary function of these villi?**
(A) To digest proteins mechanically
(B) To increase surface area for the absorption of digested food
(C) To secrete bile juice into the digestive tract
(D) To prevent acid from entering the large intestine
- 23. Tiny pores present on the surface of green leaves are guarded by special bean-shaped cells called guard cells. These pores regulate gas exchange and transpiration. What are they called?**
(A) Tracheae (B) Stomata
(C) Lenticels (D) Chloroplasts
- 24. During heavy physical exercise, human muscle cells experience a temporary shortage of oxygen and undergo anaerobic respiration. What chemical product accumulates in the muscles causing cramps?**
(A) Ethanol (B) Carbon dioxide
(C) Lactic acid (D) Acetic acid
- 25. Yeast respire anaerobically without using oxygen to convert sugars into simple elements. Which commercial byproducts are produced as a result of this metabolic process?**
(A) Lactic acid and Water (B) Alcohol and Carbon dioxide
(C) Oxygen and Glucose (D) Citric acid and Nitrogen gas
- 26. A wooden spoon is dipped in a cup of ice cream. Its other end ____.**
(A) becomes cold by the process of conduction
(B) becomes cold by the process of convection
(C) becomes cold by the process of radiation
(D) does not become cold
- 27. Two objects, A (at 40°C) and B (at 40°C), are brought into contact with each other. The heat will:**
(A) flow from object A to B
(B) flow from object B to A
(C) not flow from either object to the other
(D) increase the temperature of both objects

28. Why is the bulb of a clinical thermometer given a small kink (constriction) just above it?

- (A) To increase the sensitivity of the thermometer
- (B) To prevent the mercury level from falling on its own
- (C) To allow the mercury to expand faster
- (D) To make the thermometer look stylish and distinct

29. In places with hot climates, it is advised that the outer walls of houses be painted white.

This is because:

- (A) white surface absorbs more heat and keeps the house warm
- (B) white surface reflects most of the heat that falls on it
- (C) white paint is cheaper and highly durable
- (D) white surface transfers heat faster into the ground

30. A student wants to measure the temperature of boiling water. Which thermometer should they choose and why?

- (A) A clinical thermometer, because it is highly accurate.
- (B) A clinical thermometer, because its range covers boiling point.
- (C) A laboratory thermometer, because its range is typically -10°C to 110°C .
- (D) A laboratory thermometer, because it has a kink to hold the reading.

31. Which of the following indicators is obtained from lichens?

- (A) Turmeric
- (B) China rose
- (C) Litmus
- (D) Phenolphthalein

32. When a drop of turmeric solution is put on a basic substance, the colour becomes:

- (A) Yellow
- (B) Red
- (C) Blue
- (D) Colourless

33. Which of the following is NOT a chemical change?

- (A) Rusting of iron
- (B) Burning of magnesium ribbon
- (C) Melting of ice
- (D) Digestion of food

34. The chemical formula of baking soda is:

- (A) Na_2CO_3
- (B) NaHCO_3
- (C) NaOH
- (D) $\text{Ca}(\text{OH})_2$

35. Neutralisation reaction always produces:

- (A) Only salt
- (B) Salt and water
- (C) Only water
- (D) Acid and base

SECTION – D (Reasoning)

36. Which number will replace the question mark (?) in the following series?

0, 4, 18, 48, ?, 180

- (A) 58 (B) 68 (C) 84 (D) 100

37. Which letters will replace the question marks (?) in the following series?

p_qsp__sprq_prqs

- (A) srqs (B) rrqs (C) rqrs (D) srqr

38. Select the correct combination of mathematical signs to re-place * signs and to balance the given equation.

$16 * 4 * 64 * 4$

- (A) $\times, <, \div$ (B) $\times, >, \div$ (C) $\div, >, \times$ (D) $\times, >, +$

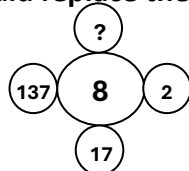
39. If FATHER is coded as FBTIES, what should be the code for the word 'SISTER'?

- (A) TJTUFS (B) SHSSEQ (C) SKSVET (D) SJSUES

40. In a certain code language, "PEN – TAN" is written as "0". How is "DEN – COB" written in that code language?

- (A) 8 (B) 3 (C) 9 (D) 7

41. Which number should replace the question mark (?)



- (A) 9107 (B) 97 (C) 907 (D) 1097

42. Which number should replace the question mark (?)

341 16 521

613 25 816

452 ? 326

- (A) 27 (B) 22 (C) 30 (D) 41

43. If the first and second halves of the English alphabet are reversed, which letter will be 18th from the left?

- (A) H (B) S (C) R (D) Y

44. Pointing to a photograph, Amit said, "This person's sister's father is the father – in – law of my father's wife." How is the person in the photograph related to Amit?

- (A) Brother (B) Grandfather (C) Father or Uncle (D) Cousin

45. If 'x' means 'addition', '–' means 'division', '÷' means 'subtraction' and '+' means 'multiplication', then which of the following equations is correct?

- (A) $16 + 5 - 10 \times 4 \div 3 = 9$ (B) $16 - 5 \times 10 \div 4 + 3 = 12$
(C) $16 + 5 \div 10 \times 4 - 3 = 9$ (D) $16 \times 5 \div 10 \div 4 - 3 = 19$

SECTION – E (Mathematics)

46. If a regular polygon has an interior angle that is 5 times its exterior angle, and a second regular polygon has an interior angle that is 4 times its exterior angle, find the difference between the number of sides of the two polygons.
(A) 2 (B) 3 (C) 4 (D) 5
47. In the given figure (assume mentally), line AB is parallel to CD. An angle bisector of angle BXT and DXY meet at P. If angle X = 110° ... Let's use clean numeric problems. Find the value of x if the supplement of an angle is 40 degrees less than three times its complement.
(A) 25° (B) 35° (C) 45° (D) 65°
48. In triangle ABC, $AB = AC$. A line through B intersects AC at D such that $BD = BC$. If angle $ABD = 30^\circ$, find the measure of angle A.
(A) 30° (B) 40° (C) 50° (D) 20°
49. Two congruent triangles ABC and PQR are placed such that they overlap. If $AB = PQ = 7$ cm, $BC = QR = 24$ cm, and $AC = PR = 25$ cm. If the area of the overlapping region is exactly one – third of the area of triangle ABC, find the area of the non – overlapping region of triangle PQR.
(A) 28 cm^2 (B) 56 cm^2 (C) 42 cm^2 (D) 84 cm^2
50. A rectangular grass plot 80 m by 60 m has two roads, each 10 m wide, running through its center, one parallel to the length and the other parallel to the breadth. Find the cost of gravelling the roads at Rs. 5 per square meter.
(A) Rs. 6500 (B) Rs. 7000 (C) Rs. 6000 (D) Rs. 5500
51. The length of a rectangle is increased by 25% and its breadth is decreased by 20%. What is the percentage change in its area?
(A) 5% increase (B) 5% decrease (C) No change (D) 10% increase
52. Find the unit digit of the expression: $7^{2023} + 3^{2024} + 2^{2025}$.
(A) 2 (B) 4 (C) 6 (D) 8
53. How many integers between 1 and 1000 are divisible by 5 or 7 but not both?
(A) 314 (B) 286 (C) 342 (D) 258
54. If $x + \frac{1}{x} = 5$, find the value of $x^4 + \frac{1}{x^4}$.
(A) 527 (B) 623 (C) 529 (D) 625
55. If $a^2 + b^2 + c^2 = ab + bc + ca$, then which of the following is always true?
(A) $a = b = c$ (B) $a + b = c$ (C) $a^3 + b^3 = c^3$ (D) $a = b = -c$
56. Solve for: $3^{(x+2)} + 3^x = 90$.
(A) 2 (B) 3 (C) 4 (D) 1
57. The sum of three consecutive multiples of 7 is 777. Find the largest of these numbers.
(A) 252 (B) 259 (C) 266 (D) 273
58. If $2^x \times 3^y \times 5^z = 2160$, find the value of $3x + 2y - z$.
(A) 12 (B) 14 (C) 11 (D) 15
59. In a group of cows and chickens, the number of legs is 14 more than twice the number of heads. The number of cows is:
(A) 5 (B) 7 (C) 10 (D) 12
60. A wire in the shape of a circle of radius 21 cm is bent into the form of a square. Find the side of the square.
(A) 22 cm (B) 33 cm (C) 44 cm (D) 11 cm