

Choose the correct meaning of the idiom/phrase:

1. "A white elephant"
 - a) A rare item
 - b) A costly but useless possession
 - c) A symbol of royalty
 - d) An albino elephant
2. "To read between the lines"
 - a) To read carefully
 - b) To suspect someone
 - c) To understand the hidden meaning
 - d) To read fast

Identify the correct spelling:

3. a) Buraucracy b) Bureaucracy c) Beauraucracy d) Burocracy
4. a) Questionnaire b) Questionaire c) Questionnare d) Questionnaiir

Fill in the blanks with appropriate prepositions:

5. He is looking _____ a new job.
 - a) at
 - b) for
 - c) into
 - d) after
6. The committee consists _____ ten members.
 - a) of
 - b) in
 - c) with
 - d) by

Synonyms & Antonyms:

7. Synonym of "Amicable"
 - a) Hostile
 - b) Friendly
 - c) Arrogant
 - d) Shy
8. Antonym of "Obsolete"

a) Old b) Ancient c) Modern d) Extinct

9. Synonym of "Lucrative"

a) Loss b) Profitable c) Risky d) Harmful

Sentence Correction:

10. One of the boy is missing.

a) boys b) boy's c) boys' d) No correction needed

11. He is senior than me.

a) senior to b) senior from c) more senior than d) No correction needed

Analogy:

12. Doctor : Stethoscope :: Sculptor : ?

a) Stone b) Chisel c) Statue d) Art

13. Light : Blind :: Speech : ?

a) Dumb b) Sound c) Tongue d) Vibration

One Word Substitution:

14. A person who knows everything:

a) Omnipresent b) Omnipotent c) Omniscient d) Omnivorous

15. A handwriting that cannot be read:

a) Illegal b) Illegible c) Ineligible d) Illogical

Section B: Mathematics (20 Marks)

16. A train 120m long passes a standing man in 6 seconds. What is the speed of the train in km/h?

a) 60 b) 72 c) 80 d) 90

17. If $x + \frac{1}{x} = 3$, find the value of $x^2 + \frac{1}{x^2}$.

a) 9 b) 7 c) 11 d) 6

18. The ratio of two numbers is 3:4 and their HCF is 4. What is their LCM?

a) 12 b) 16 c) 24 d) 48

19. A shopkeeper sells an item for Tk. 450 at a loss of 10%. At what price should he sell it to gain 10%?

a) 500 b) 540 c) 550 d) 600

20. What is 20% of 30% of 500?

a) 30 b) 50 c) 60 d) 150

21. The average of 5 consecutive numbers is 20. What is the largest number?

a) 20 b) 21 c) 22 d) 24

22. A father is 3 times as old as his son. After 12 years, he will be twice as old as his son. What is the son's present age?

a) 12 b) 15 c) 20 d) 24

23. If the radius of a circle is increased by 50%, its area increases by:

a) 50% b) 100% c) 125% d) 150%

24. `A and B can do a work in 12 days. \$A\$ alone can do it in 20 days. In how many days can B alone do it?

a) 25 b) 30 c) 35 d) 40

25. The sum of two numbers is 25 and their difference is 13. Find their product.

a) 104 b) 114 c) 325 d) 115

26. $\frac{0.002 \times 0.05}{0.01} = ?$

a) 0.1 b) 0.01 c) 0.001 d) 1

27. A man travels a certain distance at 60 km/h and returns at 40 km/h. What is his average speed?

a) 50 km/h b) 48 km/h c) 45 km/h d) 52 km/h

28. The perimeter of a rectangle is 40 cm. If the length is 4 cm more than the width, what is the area?
- a) 96 sq cm b) 100 sq cm c) 80 sq cm d) 64 sq cm
29. If $4^x = 8$, what is x?
- a) 2 b) 1.5 c) 3 d) 0.5
30. In a class of 60 students, 40% are girls. How many boys are there?
- a) 24 b) 36 c) 30 d) 40
31. Cost price of 20 articles is equal to the selling price of 16 articles. What is the profit percentage?
- a) 20% b) 25% c) 30% d) 16%
32. The simple interest on Tk. 5000 for 2 years at 10% per annum is:
- a) 500 b) 1000 c) 1500 d) 2000
33. Which is the smallest fraction?
- a) $\frac{2}{3}$ b) $\frac{3}{5}$ c) $\frac{5}{8}$ d) $\frac{7}{11}$
34. A bag contains 1-taka, 50-paisa, and 25-paisa coins in the ratio 2:3:4. If the total amount is Tk. 90, how many 50-paisa coins are there?
- a) 60 b) 50 c) 40 d) 30
35. Determine the value of $\log_{10}1000$.
- a) 1 b) 2 c) 3 d) 10
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Section C: General Knowledge (15 Marks)

36. Who is the current Governor of Bangladesh Bank? (As of late 2024/early 2025 context)
- a) Dr. Ahsan H. Mansur b) Abdur Rouf Talukder c) Fazle Kabir d) Atiur Rahman
37. The headquarters of the World Bank is located in:
- a) New York b) Geneva c) Washington D.C. d) London

38. Which country is known as the "Land of the Rising Sun"?

- a) Japan b) Norway c) China d) Thailand

39. The Padma Bridge connects which two districts directly?

- a) Munshiganj & Shariatpur b) Dhaka & Faridpur c) Madaripur & Barishal d) Manikganj & Rajbari

40. Who wrote the national anthem of Bangladesh?

- a) Kazi Nazrul Islam b) Rabindranath Tagore c) Jibanananda Das d) Jasim Uddin

41. "Mujibnagar Day" is observed on:

- a) 26 March b) 16 December c) 17 April d) 7 March

42. Which sector contributes most to the GDP of Bangladesh?

- a) Agriculture b) Industry c) Service d) Remittance

43. The currency of the United Kingdom is:

- a) Dollar b) Euro c) Pound Sterling d) Yen

44. Which is the largest ocean in the world?

- a) Atlantic b) Indian c) Pacific d) Arctic

45. COP29 (Climate Conference 2024) was held in:

- a) Dubai b) Baku c) Glasgow d) Sharm El-Sheikh

46. "Green Banking" focuses on:

- a) Profit maximization b) Environment-friendly finance c) Online banking d) Islamic banking

47. The capital of Ukraine is:

- a) Moscow b) Kiev (Kyiv) c) Warsaw d) Minsk

48. How many stock exchanges are there in Bangladesh?

- a) 1 b) 2 c) 3 d) 4

49. "SWIFT" is related to:

- a) Global Banking Transactions b) Car Manufacturing c) Internet Speed d) Stock Market

50. The number of districts in Bangladesh is:

- a) 60 b) 62 c) 64 d) 68
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Section D: Computer & Analytical (10 Marks)

51. The "Brain" of a computer is:

- a) RAM b) Hard Disk c) CPU d) Monitor

52. 1 Gigabyte (GB) is equal to:

- a) 1000 MB b) 1024 MB c) 1024 KB d) 1000 KB

53. Which of the following is a spreadsheet software?

- a) MS Word b) MS PowerPoint c) MS Excel d) MS Access

54. "Ctrl + Z" is used for:

- a) Copy b) Paste c) Undo d) Redo

55. Find the next number in the series: 2, 5, 10, 17, 26, ?

- a) 35 b) 36 c) 37 d) 38

56. If ROSE is coded as 6821, CHAIR is 73456, what is SEARCH?

- a) 246173 b) 214673 c) 214763 d) 216473

57. Which is a volatile memory?

- a) ROM b) RAM c) HDD d) SSD

58. What does "URL" stand for?

- a) Uniform Resource Locator b) Universal Resource Link c) Uniform Reference Link d) Universal Resource Locator

59. A virus that replicates itself is called a:

a) Bug b) Worm c) Spyware d) Spam

60. Identify the odd one out:

a) Monitor b) Printer c) Speaker d) Keyboard

Answer Key

Section A: English

1. b | 2. c | 3. b | 4. a | 5. b
2. a | 7. b | 8. c | 9. b | 10. a
3. a | 12. b | 13. a | 14. c | 15. b

Section B: Math

16. b | 17. b | 18. d | 19. c | 20. a
21. c | 22. a | 23. c | 24. b | 25. b
26. a | 27. b | 28. a | 29. b | 30. b
31. b | 32. b | 33. b | 34. a | 35. c

Section C: GK

36. a | 37. c | 38. a | 39. a | 40. b
41. c | 42. c | 43. c | 44. c | 45. b
46. b | 47. b | 48. b | 49. a | 50. c

Section D: Computer/Analytical

51. c | 52. b | 53. c | 54. c | 55. c
 56. b | 57. b | 58. a | 59. b | 60. d (Keyboard is Input, others are Output)
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Detailed Solutions: Section B (Mathematics)

16. Answer: b) 72 km/h

- **Logic:** Speed = Distance / Time = 120 / 6 sec = 20 m/s.
- **Conversion:** To convert m/s to km/h, multiply by $\frac{18}{5}$.
- $20 \times \frac{18}{5} = 4 \times 18 = 72$ km/h.

17. Answer: b) 7

- **Shortcut:** If $x + \frac{1}{x} = n$, then $x^2 + \frac{1}{x^2} = n^2 - 2$.
- Calculation: $3^2 - 2 = 9 - 2 = 7$.

18. Answer: d) 48

- **Formula:** LCM = HCF × (Product of Ratios).
- Calculation: $4 \times (3 \times 4) = 4 \times 12 = 48$.

19. Answer: c) 550

- **Logic:**
 - 90% of CP = 450.
 - 1% of CP = 5.
 - Target is 110% gain.
 - $110 \times 5 = 550$.

20. Answer: a) 30

- **Calculation:** 20% of 30% of 500.
- $\frac{20}{100} \times \frac{30}{100} \times 500 = \frac{1}{5} \times 150 = 30$.

21. Answer: c) 22

- **Logic:** The average of 5 consecutive numbers is the **middle number** (the 3rd one).
- So, 3rd number = 20.
- Sequence: 18, 19, **20**, 21, **22**.
- Largest is 22.

22. Answer: a) 12

- **Equation:** Let Son = x, Father = 3x.
- After 12 years: $(3x + 12) = 2(x + 12)$.
- $3x + 12 = 2x + 24 \Rightarrow x = 12$.

23. Answer: c) 125%

- **AB Formula:** $A + B + \frac{AB}{100}$. (Radius works on both length and width dimensions of area).
- $50 + 50 + \frac{50 \times 50}{100} = 100 + 25 = 125\%$.

24. Answer: b) 30

- **Formula:** $\frac{A \times B}{A - B}$ (when finding individual time).
- $\frac{20 \times 12}{20 - 11} = \frac{240}{8} = 30$ days.

25. Answer: b) 114

- **Shortcut:** $4xy = (x+y)^2 - (x-y)^2$.
- $4xy = 25^2 - 13^2 = 625 - 169 = 456$.
- $xy = 456 / 4 = 114$.

26. Answer: a) 0.1

- **Calculation:** $\frac{0.002 \times 0.5}{0.01}$
- Numerator: 0.001.
- $\frac{0.001}{0.01} = \frac{1}{10} = 0.1$.

27. Answer: b) 48 km/h

- **Harmonic Mean Formula:** $2xy / (x+y)$. (For same distance, different speeds).
- $\frac{2 \times 60 \times 40}{60+40} = \frac{4800}{100} = 48$.

28. Answer: a) 96 sq cm

- **Logic:** Perimeter $2(L+W) = 40 \Rightarrow L+W = 20$.
- Given $L - W = 4$.
- Adding equations: $2L = 24 \Rightarrow L = 12$. So $W = 8$.
- Area $= 12 \times 8 = 96$.

29. Answer: b) 1.5

- **Indices:** $4^x = 8 \Rightarrow (2^2)^x = 2^3$.
- $2^{2x} = 2^3 \Rightarrow 2x = 3 \Rightarrow x = 1.5$.

30. Answer: b) 36

- **Logic:** If 40% are girls, **60% are boys**.

- 60% of $60 = 0.6 \times 60 = 36$.

31. Answer: b) 25%

- **Shopkeeper's Rule:** $\frac{\text{Goods Left}}{\text{Goods Sold}} \times 100$
- Gap is $(20 - 16) = 4$. Sold is 16.
- Profit = $\frac{4}{16} \times 100 = \frac{1}{4} \times 100 = 25\%$.

32. Answer: b) 1000

- **Formula:** $I = Pnr$.
- $5000 \times 2 \times 0.10 = 1000$.

33. Answer: b) 3/5

- **Decimal Hack:**
 - $2/3 = 0.66$
 - **3/5 = 0.60** (Smallest)
 - $5/8 = 0.625$
 - $7/11 = 0.63$

34. Answer: a) 60

- **Logic:**
 - Coins Ratio: $2 : 3 : 4$.
 - Value Ratio: $(2 \times 1) : (3 \times 0.5) : (4 \times 0.25) \Rightarrow 2 : 1.5 : 1\$$.
 - Total Value Ratio = 4.5 units.
 - 4.5 units = Tk 90. So, 1 unit = Tk 20.
 - Number of 50-paisa coins (Ratio is 3): Need to find the count.
 - Wait, the "Value unit" is 1.5. So Value of 50p coins = $1.5 \times 20 = 30$ Taka.
 - Number of 50p coins = $30 \times 2 = 60$.
 - (*Or directly: Scale factor x=20. Coins = 3x = 60*).

35. Answer: c) 3

- **Logarithm:** $\log_{10} 1000 = \log_{10} 10^3$
- $3 \log_{10} 10 = 3 \times 1 = 3$.