

Directions (Questions 1-3): Choose the option which best expresses the meaning of the underlined idiom/phrase in the sentence.

1. If you think I am the guilty person, you are barking up the wrong tree.
 (1) cheating the wrong person (2) accusing the wrong person
 (3) helping the wrong person (4) sacrificing the wrong person
2. We should get down to brass tacks and discuss how we can finish this project on time.
 (1) talk about the real issues (2) start unravelling the mysteries
 (3) not get into arguments (4) begin to discuss secret matters
3. I do not want to be just a cog in the wheel of this company any more.
 (1) a technician (2) an unimportant person
 (3) a low paid employee (4) an important person

Directions (Questions 4-6): Choose the word which is opposite in meaning to the underlined word.

4. Born in squalid surroundings of the slums she rose to stardom overnight.
 (1) friendly (2) neat (3) prosperous (4) clean
5. The intrepid old woman did not panic even when the storm was directly over her house.
 (1) melancholy (2) fearful (3) oblivious (4) ignorant
6. If you do not eat while you are sick, the lack of nutrients will impede your recovery.
 (1) accelerate (2) ensure (3) guarantee (4) advance

Directions (Questions 7-9): Choose the word nearest in meaning to the underlined word.

7. Sushma is a devious person and we cannot depend on her.
 (1) difficult (2) insincere (3) lazy (4) creative
8. The frustrated student wrote a trenchant essay about the inedible lunchroom food.
 (1) incisive (2) boring (3) lengthy (4) blunt
9. The title of your book is so prosaic that most people are going to walk right past it in the store.
 (1) pathetic (2) unassuming (3) insignificant (4) uninspiring

Directions (Questions 10-12): Fill in the blanks.

10. "The Facebook Messenger team's mission is to make Messenger the best place to _____ with all the people and _____ in the world," Facebook head of messaging products said in an online post.
 (1) correspond, occupations (2) communicate, businesses
 (3) meet, networks (4) network, platform

11. The _____ of the deadly Nipah virus around Kozhikode, Kerala is a test of India's _____ to respond to public health emergencies.
 (1) outcome, ability (2) estimation, strength
 (3) outbreak, capability (4) danger, power
12. As Indian firms face the heat of competition both _____ and _____; they are turning to foreign managers to head key operations.
 (1) qualitative, quantitative (2) organized, unorganized
 (3) local, global (4) easy, tough

Directions (Questions 13-15): In each of these questions, choose the option which can be substituted for the given words.

13. A building for storing threshed grain
 (1) Granary (2) Storehouse (3) Grain Room (4) Godown
14. Exemption from punishment
 (1) Bail (2) Release (3) Amnesty (4) Reproach
15. A person who eats too much
 (1) Cannibal (2) Glutton (3) Carnivore (4) Omnivore
16. If a number is multiplied by 22 and the same number is added to it, then we get a number that is half the square of that number. Find the number.
 (1) 45 (2) 46 (3) 47 (4) Data insufficient
17. The sum of two numbers is 20 and their geometric mean is 20% lower than their arithmetic mean. Find the ratio of the numbers.
 (1) 4 : 1 (2) 9 : 1 (3) 1 : 1 (4) 17 : 3
18. The average salary of the entire staff in an office is ₹3200 per month out of which the average salary of officers is ₹6800 and that of non-officers is ₹2000. If the number of officers is 5, then the number of non-officers in the office is _____.
 (1) 8 (2) 12 (3) 5 (4) 15
19. In what ratio should water be mixed with juice costing ₹12 per litre so as to make a profit of 25% by selling the diluted juice at ₹13.75 per litre?
 (1) 10 : 1 (2) 11 : 1 (3) 1 : 11 (4) 12 : 1
20. A man buys 50 litre of oil at ₹10 per litre and another 40 litre of oil at ₹12 per litre and mixes them. He sells the mixture at the rate of ₹11 per litre. What will be his gain per cent if he is able to sell the whole oil?
 (1) $\frac{100}{98}$ % (2) 100% (3) 10% (4) None of these

21. A merchant makes a profit of 20% by selling an article. What would be the approx. percentage change in the profit per cent had he paid 10% less for it and the customer paid 10% more for it?
 (1) 120% (2) 125% (3) 133.33% (4) 150%
22. Sanjay borrowed ₹900 at 4% per annum and ₹1100 at 5% per annum for the same duration. He had to pay ₹364 in all as interest. What is the time period in years?
 (1) 5 years (2) 3 years (3) 2 years (4) 4 years
23. A dishonest milkman mixed 1 litre of water for every 3 litres of milk and thus made up 36 litres of milk. If he now adds 15 litres of milk to the mixture, find the ratio of milk and water in the new mixture.
 (1) 12 : 5 (2) 14 : 3 (3) 7 : 2 (4) 9 : 4
24. Brass is an alloy of copper and zinc. Bronze is an alloy containing 80% of copper, 4% of zinc and 16% of tin. A fused mass of brass and bronze is found to contain 74% of copper, 16% of zinc, and 10% of tin. What is the ratio of copper to zinc in brass?
 (1) 64% and 36% (2) 33% and 67% (3) 55% and 45% (4) None of these
25. There are two pipes in a tank. Pipe A is for filling the tank and Pipe B is for emptying the tank. If A can fill the tank in 10 hours and B can empty the tank in 15 hours then find how many hours will it take to completely fill a half empty tank when both the pipes are opened together?
 (1) 30 hrs (2) 15 hrs (3) 20 hrs (4) 33.33 hrs

Directions (Questions 26-27): Study the information below to answer these questions.

A lady sales representative plans to visit each of the six cities A, B, C, D, E and F exactly once during the course of one day. She is setting up her schedule for the day according to the following conditions:

- (i) She must visit A before B and before E.
 (ii) She must visit B before D.
 (iii) The third city that she visits must be C.
26. What is the order of cities that she must visit?
 (1) C, F, A, E, D, B (2) A, E, B, D, C, F (3) A, F, C, B, E, D (4) C, E, A, B, D, F
27. If the sales representative visits F first, then which city she must visit second?
 (1) D (2) A (3) B (4) C

Directions (Questions 28-29): Complete the series.

28. AGMS ciou '?'
 (1) BHNT bhnt (2) ABCD ascd (3) BHNT djpv (4) bhnt DJPV
29. 26AZ, 24CX, 22EV, '?', 18IR
 (1) 20HS (2) 18JQ (3) 20GS (4) 20GT

Directions (Questions 30-31): Read the given information carefully to answer these questions.

All the roads of a city are either perpendicular or parallel to one another. The roads are all straight. Roads A, B, C, D and E are parallel to one another. Roads G, H, I, J, K, L and M are parallel to one another. Road A is 1 km East of road B. Road B is $\frac{1}{2}$ km West of road C. Road D is 1 km West of road E. Road G is $\frac{1}{2}$ km South of road H. Road I is 1 km North of road J. Road K is $\frac{1}{2}$ km North of road L. Road K is 1 km South of road M.

30. Which of the following is necessarily true?
(1) E and B intersect. (2) D is 2 km West of B.
(3) D is at least 2 km West of A. (4) M is 1.5 km north of L.
31. If E is between B and C, which of the following is false?
(1) D is 2 km West of A.
(2) C is less than 1.5 km from D.
(3) Distance from E and B added to distance of E to C is $\frac{1}{2}$ km.
(4) E is less than 1 km from A.
32. Five students participated in a scholarship examination. "Sudha scored higher than Puja. Kavita scored lower than Suma but higher than Sudha. Mamta scored between Puja and Sudha." Who among the following scored the lowest in the examination?
(1) Puja (2) Kavita (3) Mamta (4) Sudha
33. Samant remembers that his brother's birthday is after fifteenth but before eighteenth of February, whereas his sister remembers that her brother's birthday is after sixteenth but before nineteenth of February. On which date of February is Samant's brother's birthday?
(1) 18th (2) 16th (3) 19th (4) 17th
34. Four persons X, Y, Z and Q live in red, green, yellow or blue coloured houses placed in a sequence on a street. Z lives in a yellow house. The green house is adjacent to the blue house. X does not live adjacent to Z. The yellow house is in between the green and red houses. The colour of the house X lives in is _____.
(1) green (2) blue
(3) red (4) Cannot be determined
35. Pointing to a man in a photograph, Sakshi said, "His brother is the father of the son of my grandmother". How is the man in the photograph related to Sakshi?
(1) Granduncle (2) Uncle (3) Father (4) Grandfather
36. The 'Pyrometer' instrument is used to measure which of the following?
(1) Humidity (2) Density (3) Purity of milk (4) High temperature
37. Which state tableaux, depicting 'Gandhian way of fuelling rural economy' won the first prize in the state tableaux category in the Republic Day Parade 2019?
(1) Jammu & Kashmir (2) Uttar Pradesh (3) Uttarakhand (4) Tripura

38. The famous explorer Vasco da Gama, who was the first European to reach India by sea, was from _____.
- (1) Portugal (2) France (3) Spain (4) None of these
39. Which military communication satellite was successfully launched by ISRO in December 2018, for use by the Indian Air Force?
- (1) GSAT-29 (2) INSAT-3DR (3) GSAT-7A (4) SCATSAT-1
40. Which of the following Articles of the Indian Constitution provides an advisory jurisdiction to the Supreme Court of India?
- (1) Article 108 (2) Article 111 (3) Article 143 (4) Article 145
41. Which of the following High Courts has the territorial jurisdiction over Andaman and Nicobar Islands?
- (1) Calcutta High Court (2) Bombay High Court
(3) Delhi High Court (4) Madras High Court
42. Novak Djokovic won the men's singles tennis title of Australian Open Grand Slam 2019 by defeating _____ in the finals in January 2019.
- (1) Roger Federer (2) Rafael Nadal
(3) Juan Martin del Potro (4) Alexander Zverev
43. In January 2019, who among the following became the first ever female Hindu Civil Judge in Pakistan?
- (1) Krishna Kumari Kohli (2) Anita Kumari Rana
(3) Suman Kumari (4) None of these
44. About what proportion of the total water on earth is saline water?
- (1) 75.4% (2) 87.4% (3) 97.3% (4) None of these
45. Who is heading the eight members Lokpal Search Panel to select the first anti-corruption ombudsman Lokpal?
- (1) Justice Sakha Ram Singh Yadav (2) Arundhati Bhattacharya
(3) Justice Ranjana Prakash Desai (4) None of these
46. A nibble is equal to _____.
- (1) 4 bits (2) 8 bits (3) 16 bits (4) 32 bits
47. Match the following tasks with the data structure that is best for their implementation:
- | <u>Task</u> | <u>Data Structure</u> |
|---------------|-----------------------|
| A. Recursion | i. Binary Tree |
| B. Scheduling | ii. Stack |
| C. Sorting | iii. Queue |
- (1) A - i, B - iii, C - ii (2) A - i, B - ii, C - iii
(3) A - ii, B - iii, C - i (4) A - ii, B - i, C - iii

48. What should be the value of the variables a, b and c after the execution of the following 'C' program?
- ```
main()
{
int a =1^1;
int b=1||0;
int c=1 && !0;
}
```
- (1) a=1, b=1, c=1      (2) a=0, b=1, c=1      (3) a=0, b=0, c=1      (4) a=0, b=1, c=0
49. Predict the value of the variable 'i' at line 3 in the following 'C' program:
- ```
int i,j; //line 1
for(i=1;i<5;i++); //line 2
j=i; //line 3
```
- (1) 1,2,3,4 (2) 5 (3) 4 (4) Error at line 2
50. What is the ASCII code of 'W'?
- (1) 85 (2) 58 (3) 87 (4) 78
51. You have applied some formatting on a text like color, boldness, border etc. Now you want to apply the same formatting on another text, how will you achieve this in MS WORD?
- (1) Copy and Paste (2) Format Painter
(3) Copy and Paste Special (4) It is not possible.
52. The decimal number 17 is written in binary number system as _____.
- (1) 00010001 (2) 00000001 (3) 00010000 (4) 00000011
53. Who was the developer of 'C' language?
- (1) Bjarne Stroustrup (2) Donald Ritchie (3) Ada (4) Dennis Ritchie
54. What should be the value of the variable 'r' after the execution of the following statements in 'C'?
- ```
int i=10;
int r=i++;
```
- (1) 10      (2) 11      (3) 12      (4) 9
55. What will happen if you have logged into a facebook account in one tab of a web browser, and are trying to open the facebook page in another tab of the same web browser?
- (1) You have to login again to open another facebook account.  
(2) It will open the same facebook account in another tab without asking you to login again.  
(3) It will ask whether to open the same facebook account or another.  
(4) None of these

56. What is required by a client in order to connect with a server?  
 (1) IP (2) Port (3) IP and Port (4) Notepad
57. What is the port number of http?  
 (1) 90 (2) 70 (3) 80 (4) 85
58. Which of the following is a successor of Exabyte?  
 (1) Petabyte (2) Zettabyte (3) Yottabyte (4) Terabyte
59. In which of the following conditions will an XOR gate give a true output?  
 (1) If both inputs are true. (2) If both inputs are false.  
 (3) If one input is true and another is false. (4) None of these
60. The decimal number 75 is written in hexadecimal number system as \_\_\_\_\_  
 (1) 4A (2) 4B (3) 4C (4) 3A
61. The decimal number 20 is written in octal number system as \_\_\_\_\_.  
 (1) 20 (2) 22 (3) 24 (4) 26
62. What is quarantine regarding computer virus?  
 (1) To delete the virus.  
 (2) To delete the files infected by virus.  
 (3) Both (1) and (2)  
 (4) To move an infected file, such as a virus, into an area where it cannot cause more harm.
63. The virus that spreads in application software is called a/an  
 (1) Boot virus. (2) File virus. (3) Antivirus. (4) Macro virus.
64. Which of the following is NOT a type of normal form in RDBMS?  
 (1) Initial Normal Form (2) Second Normal Form  
 (3) Third Normal Form (4) Boyce-Codd Normal Form
65. Which of the following integrity constraints is followed by the Primary Key in an RDBMS?  
 (1) Domain integrity (2) Entity integrity  
 (3) Referential integrity (4) User-defined integrity
66. SSD can be used in place of \_\_\_\_\_.  
 (1) CPU (2) ROM (3) HDD (4) SMPS

67. What is the shortcut to add a new slide in MS PowerPoint?  
(1) Ctrl+N                      (2) Ctrl+M                      (3) Ctrl+S                      (4) Ctrl+L
68. Siri, Alexa, Cortana, Google Assistant are examples of\_\_\_\_\_.  
(1) Search Engines              (2) Music Players              (3) Chatbots                      (4) Remotes
69. Acronym of DLL is\_\_\_\_\_.  
(1) Data Link Library                                              (2) Data Language Library  
(3) Dynamic Language Library                                      (4) Dynamic Link Library
70. What is the difference between http and https?  
(1) Both are same but the only difference is that they have different ports.  
(2) https sends data securely by using cryptography whereas http sends data as simple text.  
(3) http sends data securely by using cryptography whereas https sends data as simple text.  
(4) None of these
71. In a DBMS, DCL stands for\_\_\_\_\_.  
(1) Data Command Language                                      (2) Data Control Language  
(3) Data Command Library                                              (4) Data Control Library
72. SaaS in cloud computing stands for\_\_\_\_\_.  
(1) System as a Service                                              (2) Software as a Service  
(3) System as a Server                                              (4) Software as a Server
73. IANA stands for\_\_\_\_\_.  
(1) Internet And Network Agency                                      (2) Internet Assigned Numbers Agency  
(3) Internet Assigned Numbers Authority                                      (4) Internet And Network Authority
74. Which of the following is also known as physical address?  
(1) MAC                              (2) IP                              (3) Port                              (4) NIC
75. Who invented the relational model for database management?  
(1) Dennis Ritchie              (2) E.F. Codd                      (3) Larry Ellison                      (4) James Gosling

SPACE FOR ROUGH WORK