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VELS SCHOLARSHIP ADMISSION TEST

Welcome to V-SAT 2020.

The exam is conducted by VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES to offer up to 100% scholarship to students after 12th standard to pursue their bachelor's degree in its campuses.

DIRECTIONS TO TAKE THE TEST

- **This is a 45 minutes' paper**
- **+4 for every correct answers**
- **-1 for every wrong answer**
- **You cannot open another window during the 45 minutes of VSAT. When you do so, the exam window will close automatically and you will be forfeited from taking the exam**
- **After 45 minutes, the window will save the responses you have provided so far and will prompt end of exam.**

All the best

Go to Test Link

Quantitative Aptitude:

1. Two ships are sailing in the sea on the two sides of a lighthouse. The angles of elevation of the top of the lighthouse observed from the ships are 30° and 45° respectively. If the lighthouse is 100m high, find the distance between the two ships.
A. 155.80 m
B. 157.80 m
C. 159.80 m
D. 161.80 m
2. The speed of a boat in still water is 5km/hr. If the speed of the boat against the stream is 3 km/hr, what is the speed of the stream?
A. 1.5 km/hr
B. 2 km/hr
C. 2.5 km/hr
D. 1 km/hr
3. A pipe can fill a tank in 6 hours and another pipe can empty the tank in 12 hours. If both the pipes are opened at the same time, the tank can be filled in
A. 10 hours
B. 12 hours
C. 14 hours
D. 16 hours
4. A shopkeeper sold an article for Rs. 2500. If the cost price of the article is 2000, find the profit percent.
A. 23%
B. 25%
C. 27%
D. 29%
5. A train moving at speed of 80 km/hr crosses a pole in 7 seconds. Find the length of the train.
A. 150 m
B. 165 m
C. 175 m
D. 170 m

Question Paper – Format and samples

6. What is the HCF of 1095 and 1168?
A. 37
B. 73
C. 43
D. 83
7. What is the area of a triangle with base 5 meters and height 10 meters?
A. 20 square meters
B. 35 square meters
C. 25 square meters
D. 40 square meters
8. A: B: C is in the ratio of 3: 2: 5. How much money will C get out of Rs 1260?
A. 252
B. 125
C. 503
D. None of these
9. In a kilometer race, A beats B by 40 meters or by 5 seconds. What is the time taken by A over the course?
A. 1 minute 57 seconds.
B. 2 minutes.
C. 1.5 minutes.
D. None of these.
10. The value of $\frac{(14)^2 - (7)^2 \times 2}{7 \times 4} = ?$
A. 98
B. 35
C. 350
D. None of these.
11. If 15 men can reap the crops of a field in 28 days, in how many days will 5 men reap it?
A. 50 days
B. 60 days
C. 84 days
D. 9.333 days

12. $\frac{1120}{\sqrt{?}} = 80$
- A. 3.74
 - B. 149.67
 - C. 196
 - D. 225

13. If $x^2 + \frac{1}{x^2} = 34$, $x + \frac{1}{x}$ is equal to
- A. 3
 - B. 4
 - C. 5
 - D. None of these

14. The average weight of 10 men is decreased by 2 kg when one of them whose weight is 60 kg is replaced by a new man. What is the weight of the new man?
- A. 35 kg
 - B. 40 kg
 - C. 45 kg
 - D. 50 kg
15. A box contains 2 red, 3 green, and 2 blue balls. What is the probability that none of the balls drawn is blue?
- A. $\frac{10}{25}$
 - B. $\frac{10}{21}$
 - C. $\frac{10}{31}$
 - D. $\frac{10}{21}$

Verbal Ability:

Sentence Correction

16. In each question, an incomplete statement (Stem) followed by fillers is given. Pick out the best one which can complete incomplete stem correctly and meaningfully.

Despite his best efforts to conceal his anger

- A. we could detect that he was very happy
- B. he failed to give us an impression of his agony
- C. he succeeded in camouflaging his emotions
- D. he could succeed in doing it easily
- E. people came to know that he was annoyed

17. His appearance is unsmiling but

- A. if I come it will not rain
- B. if it rains I shall not come
- C. I will certainly come whether it rains or not
- D. whenever there is rain I shall come
- E. I am less likely to come if it rains

Choose the correct Antonyms of

18. Relinquish

- A. Strong
- B. Powerful
- C. Renounce
- D. Possess

19. Imperative

- A. Imprudent
- B. Thoughtful
- C. Harmful
- D. Unimportant

20. The Himalayas are located _____ the northern frontier of India.

- A. along
- B. aside
- C. in
- D. above

21. The release of the book was planned to _____ with the writer's fiftieth birthday.
- A. harmonize
 - B. fall with
 - C. coincide
 - D. Synchronize

Sentence Formation

22. . 1. can't believe 2. you 3. what 4. you cannot 5. understand.
- E. 45321
 - F. 32145
 - G. 21345
 - H. 31245

23. 1. of a big banyan tree 2. I got off 3. in the shade 4. my horse 5. and sat
- I. 23451
 - J. 31245
 - K. 41253
 - L. 24531

24. 1. young woman 2. married a 3. worthy of his love 4. He had 5. in all ways.
- M. 43215
 - N. 45213
 - O. 42153
 - P. 54213

Reading Comprehension

Organizations are big institutions where people work for a common goal and compete with each other for power and status. In pursuit of their interests, they form groups and sectional interests emerge. As a result, the goals of the organizations may be drifted in favor of groups' interests and benefits. This deviation sometimes prevents the emergence of organic systems. Most of the electronic firms have established research and development departments employing highly qualified and experienced scientists and technicians. Their expertise and high pay may be a threat to the established order of rank, power, and status. Most of the senior managers lack the expertise and knowledge of technicalities and new developments in the field of electronics. So, the manager may feel that working in close cooperation with the experts may reveal their ignorance and show their experience is now obsolete.

25. **The theme of the passage is**
- A. growth of organizations
 - B. groups in an organization
 - C. challenges for senior managers

- D. origin of sectional interests in organizations
26. **The goals of the organization will be drifted**
- A. towards scientists' expertise and knowledge
 - B. towards financial growth of organizations
 - C. in favor of groups' interests and benefits
 - D. towards natural and unimpeded growth of organizations
27. **Policy decision in an organization would give emphasis on**
- A. replacing old employees with new experienced employees
 - B. attracting highly qualified and experienced professionals
 - C. promotion of the old employees
 - D. provide training to the old employees
28. **As per the passage, what have electronic firms employed?**
- A. qualified scientists and technicians
 - B. qualified teachers and technicians
 - C. qualified doctors and nurses
 - D. qualified architectures and engineers
29. **What may the managers feel working with highly qualified and experienced scientists?**
- A. They have to upgrade their skills and knowledge
 - B. They will be promoted
 - C. Their salary will be increased
 - D. It will reveal their ignorance and show their experience is now obsolete

Sentence Ordering

30. A man who was living alone always had two plates on the dinner table.

P: One evening when he sat down to dine, the dog rushed into the room

Q: He used to give the dog a piece of meat from his plate

R: One plate was for him, and the other was for his dog

S: and dropped a piece of cheese into his plate and another piece of cheese into his master's plate.

Thus, the dog showed gratitude to his master.

- A. RPSQ B. QPSR C. RQPS D. SQPR

Logical Reasoning

31 Which number should come next in the series, 48, 24, 12,?

- A. 8
- B. 6
- C. 4
- D. 2

32 Look at the series, 46, 44, 40, 38, 34, _, which number should come next?

- A. 30
- B. 36
- C. 32
- D. 31

33 RQP, ONM, _, IHG, FED, find the missing letters.

- A. CDE
- B. LKI
- C. LKJ
- D. BAC

34 CKDL, EKFL, GKHL, _, KKLL, find the missing letters.

- A. IJKL
- B. IKJL
- C. MNOP
- D. MNPQ

35 If January 1, 1996, was Monday, what day of the week was January 1, 1997?

- A. Thursday
- B. Wednesday
- C. Friday
- D. Sunday

Question Paper – Format and samples

36. A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting?

- A. Between B and D
- B. Between B and C
- C. Between E and D
- D. Between C and E

37. P, Q, R, S, T, U, V and W are sitting round the circle and are facing the centre:

1. P is second to the right of T who is the neighbour of R and V.
2. S is not the neighbour of P.
3. V is the neighbour of U.
4. Q is not between S and W. W is not between U and S.

Which of the following is correct ?

- A. P is to the immediate right of Q
- B. R is between U and V
- C. Q is to the immediate left of W
- D. U is between W and S

38. A father said to his son, "I was as old as you are at the present at the time of your birth". If the father's age is 38 years now, the son's age five years back was:

- A. 14 years
- B. 19 years
- C. 33 years
- D. 38 years

Analogies

39. Odometer is to mileage as compass is to

- A. speed
- B. hiking
- C. needle
- D. direction

40. Marathon is to race as hibernation is to

- A. winter
- B. bear
- C. dream
- D. sleep

41. Window is to pane as book is to

- A. novel
- B. glass
- C. cover
- D. page

42. Cup is to coffee as bowl is to

- A. dish
- B. soup
- C. spoon
- D. food

43. Yard is to inch as quart is to

- A. gallon
- B. ounce
- C. milk
- D. liquid

Classifications

44. Which word does NOT belong with the others?

- A. parsley
- B. basil
- C. dill
- D. mayonnaise

45. Which word does NOT belong with the others?

- A. inch
- B. ounce
- C. centimeter
- D. yard