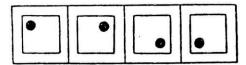


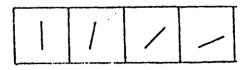
Sample Questions for Vidyalankar Scholarship cum Admission Test (V-SAT)

Direction for Q. No. 1 to 6: What picture belongs to the next, the fifth, square of the problem figure? Choose the correct option from the answer figures.

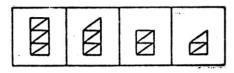
1. Problem Figure



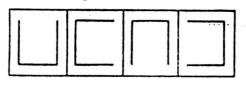
2. Problem Figures



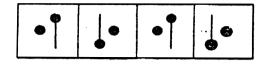
3. Problem Figures



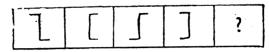
4. Problem Figures



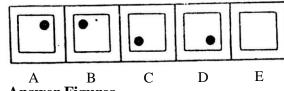
5. Problem Figures



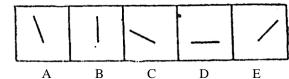
6. Problem Figures



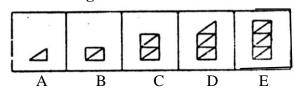
Answer Figure



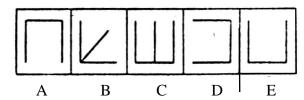
Answer Figures



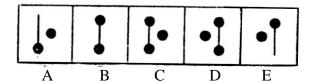
Answer Figures



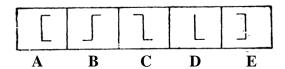
Answer Figures



Answer Figures



Answer Figures



Paragraph for Q. No. 7 & 8:

A painter buys RED, YELLOW, WHITE, ORANGE and PINK colors. ORANGE color can be also produced by mixing RED and YELLOW colors in equal proportions. Similarly, PINK color can also be produced by mixing equal amounts of RED and WHITE colors. Among other colors, CREAM color, (formed by mixing WHITE and YELLOW in the ratio 70: 30) AVOCADO color (formed by mixing equal amounts of ORANGE and PINK color) and WASHEDORANGE color (formed by mixing equal amounts of ORANGE and WHITE color) can also be produced. The following table provides the price at which the painter buys colors.

| Color | Rs. / Litre | |
|--------|-------------|--|
| RED | 20.00 | |
| YELLOW | 25.00 | |
| WHITE | 15.00 | |
| ORANGE | 22.00 | |
| PINK | 18.00 | |

| 7. | The cheapest way to ma (A) Rs. 19.50 per litre (C) Rs. 20.00 per litre | ake AVOCADO color w | ould cost (B) Rs. 19.75 per litre (D) Rs. 20.25 per litre | | | |
|-----|---|---|--|---|--|--|
| 8. | Which of the color can be produced at the lowes (A) AVOCADO (C) WASHEDORANGE | | st cost? (B) CREAM (D) Sufficient data is not available. | | | |
| 9. | Which one of the follow (A) Gastric Juice | ving does not have any k (B) Pancreatic Juice | ind of enzyme ? (C) Bile Juice | (D) Saliva. | | |
| 10. | What is the fate of pyru (A) Ethanol + CO_2 + $2A$ (C) CO_2 + Water + energy | | en in yeast? (B) Lactic acid + energ (D) Acetic acid + CO ₂ | у | | |
| 11. | The growth of pollen tu (A) Hydrotropic Mover (C) Gravitotropic Move | | e is an example of (B) Chemotropism Movement. (D) Phototropic Movement | | | |
| 12. | What is /are gland of hu (A) Seminal vesicle | uman male reproductive s (B) Prostate grand. | system which contribute (C) Both A and B | to produce semen. (D) epididymis | | |
| 13. | A wave of wavelength frequency of the wave i (A) 20000 Hz | | in air and it travels at (C) 50000 Hz | a speed of 300 m/s. The (D) 10000 Hz | | |
| 14. | When a copper ball is h (A) diameter | eated, the largest percent (B) area | tage increase will occur i | in its (D) density | | |
| 15. | • | he body in air | <u> </u> | L = | | |
| 16. | 100 m/s in a normal di surface will be : | | h the same velocity. The | er second with a velocity evalue of pressure on the $(D) 2 \times 10^7 \text{ N/m}^2$ | | |
| 17. | Most favourable conditions for electrovalency are (A) Low charge on ions, large cation and small anion. (B) High charge on ions, small cation and large anion. (C) High charge on ions, large cation and small anion. (D) Low charge on ions, small cation and large anion. | | | | | |
| 18. | The percentage of oxyg (A) 16 | en in NaOH is, [Na = 2 (B) 40 | 23, O = 16, H = 1] (C) 20 | (D) 50 | | |
| 19. | A certain compound has the molecular formula X_4O_6 . If 10 gm of compound contains 6.06 gm of X, the atomic mass of X is. (A) 32 amu (B) 37 amu (C) 42 amu (D) 48 amu | | | | | |
| 20. | | | | (D) 48 amu or electron (e), proton (p), | | |
| | neutron (n) and alpha pa (A) e, p, n, α | article (α) is (B) n, p, e, α | (C) n, p, α, e | (D) n, α , p, e | | |
| | | | | | | |
| | | | | | | |