



Junior Level Science Scholarship JLSS Exam Review

MOCK EXAM



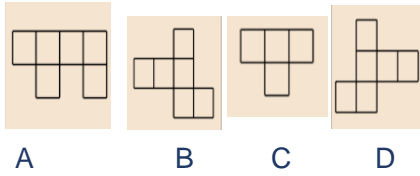
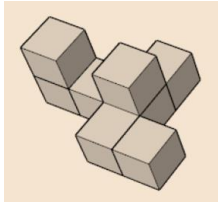
Part I. LOGICAL REASONING

A. Spatial Reasoning

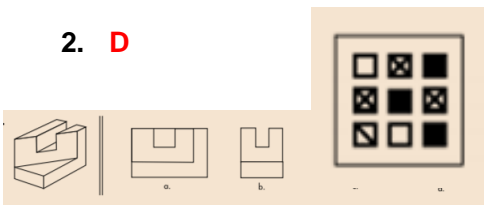
SPATIAL REASONING

1-2. Which of the 2D images correctly shows the 3D images below?

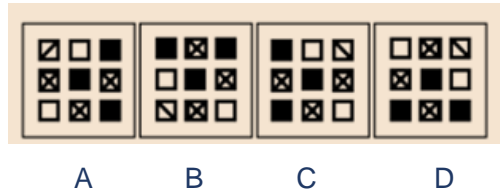
1. **B** Count the top faces - there are 6. Option 'C' has only 4 faces. The most cubes in a straight line is 3. - Option 'A' has 4 cubes in a straight line. See an 'L' shape to the right with 2 cubes attached in the middle to the left. Therefore the answer is option 'B'.



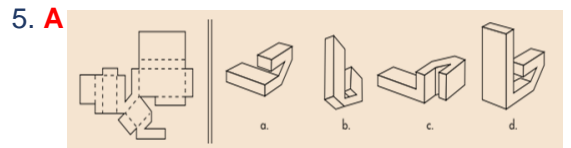
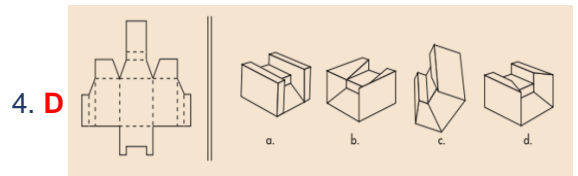
2. **D**

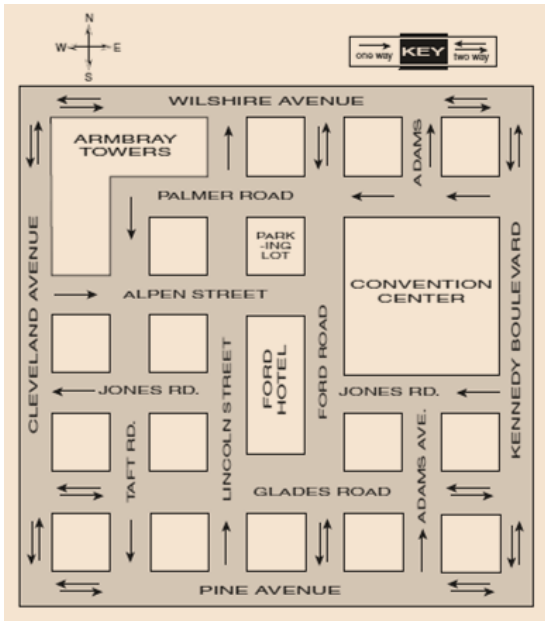


3. Which figure is identical to the figure on the right? **B**



4-5. Following the dotted lines, determine the resulting shape.





6-7. The arrows indicate traffic flow; one arrow indicates a one-way street going in the direction of the arrow; two arrows represent a two-way street. You are not allowed to go the wrong way on a one-way street.

6. Officers Cardo and Coco are eating at Al's Cafe, which faces Jones Road. They get a call of a suspicious person at the Cleveland Avenue entrance to the Armbray Towers. What is their most direct route to the Armbray Towers?

B. It is the quickest and most direct route. Because answer **A** has too many turns to be the most direct. Answer **C** is a one-way street going north and wouldn't be the right choice. Answer **D** takes the officers several blocks out of their way and is not the most direct.

- A. Go east on Jones Road, then south on Kennedy Boulevard, then west on Glade Road, then north on Cleveland Avenue to the Armbray Towers.
- B. Go west on Jones Road to Cleveland Avenue, then north on Cleveland to the Armbray Towers.
- C. Go west on Jones Road, then south on Ford Road, then west on Glade Road, then north on Cleveland Avenue to the Armbray Towers.
- D. Go west on Jones Road, then north on Glade Road, then west on Palmer Road, then south on Taft Road, then west on Jones Road, then north on Cleveland Avenue to the Armbray Towers.

7. Officer Tananga is southbound on Kennedy Boulevard. He makes a right turn onto Glade Road, then a left onto Taft Road, a right onto Pine Avenue, another right onto Cleveland Avenue, and then a right onto Wilshire Avenue. Which direction is he facing?

C. A right turn onto Glade Road turns Officer Tananga west. The left onto Taft Road turns him south; the right onto Pine Avenue turns him west, the right onto Cleveland Avenue turns him back north, and the right onto Wilshire Avenue turns him east.

- A. West
- B. South

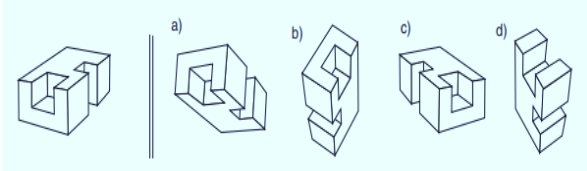


C. East

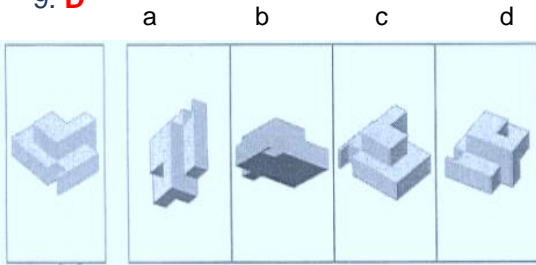
D. North

8-10. Each of the four choices is rotated 360°. From the four choices, determine the original shape.

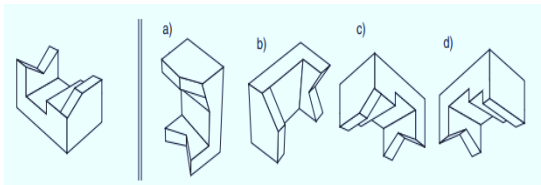
8. **B**



9. **D**



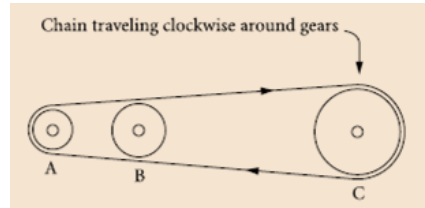
10. **C**



B. Mechanical Reasoning

1. In the diagram shown below, gears A, B and C are connected by a chain. The diameters of gears are 1 inch, 2 inches, and 4 inches respectively. If gear A is

turning at 20 revolutions per minute (RPM), what is the

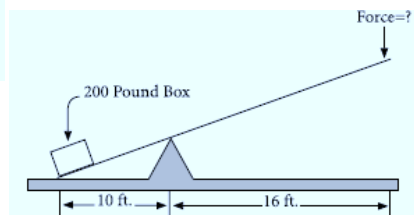


turning rate of gear C.

A. Gear C is 4 times the diameter of gear A. Since the gears are all connected by a chain, the tip velocity of all the gears must be the same; otherwise, the chain would come off the gears. Therefore, if the tip velocity is to be the same for all gears and gear C is 4 times larger than gear A, then gear C must be turning 4 times slower than gear A. Twenty RPM divided by 4 equals 5 RPM.

- A. 5RPM
- B. 20 RPM
- C. 40 RPM
- D. 60 RPM

2. In the diagram shown below, Frank must lift a 200-pound box using a lever. How many pounds of force must Frank apply to the right side of the lever to lift the box?



B $(200 \text{ pounds})(10 \text{ feet}) = f(16 \text{ feet})$.

Solving for f gives 125 pounds.

- A. 100 pounds
- B. 125 pounds
- C. 200 pounds
- D. 320 pounds

3. Two cars have the same weight and the same type of engine and travel at the same speed. One is a boxy minivan and the other a low, sleek sports car. Which factor below best explains why the sports car gets better gas mileage than the minivan?

B The cars both weigh the same, so friction and acceleration would be identical for both. The difference is that a sports car has a low, sleek shape compared to a minivan and therefore has less drag from the wind.

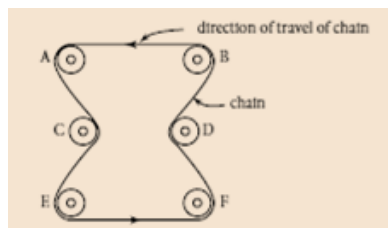
- A. Friction
- B. wind resistance
- C. acceleration
- D. all of the above

4. Which principle of mechanical motion is used in the design of a roller coaster?

D Acceleration must be considered in designing the maximum rise of the first hill. Momentum must be considered to ensure the train gets back to the starting point, since it has no motor. Friction must be considered in the design of the braking system.

- A. momentum
- B. friction
- C. acceleration
- D. all of the above

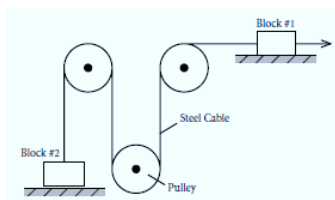
5. In the diagram shown below, which gears are turning clockwise? **C**



- A. A, C, and E
- B. B, D, and F
- C. C and D
- D. E and F

6. In the diagram shown below, if block #1 is moved 10 feet to the right, how far upward is block #2 lifted?

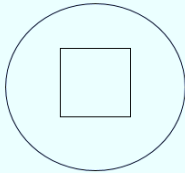
C The two blocks are directly connected by a fixed length of steel cable. Therefore, regardless of the number of pulleys between the two blocks, the distance moved by one block will be the same as the other block.



- A. 3 feet
- B. 5 feet
- C. 10 feet
- D. 20 feet



For 7-10, refer to the figure below.



Diameter of Circle: 60cm
Side of Square: 30cm

The sketch above shows a component which is stamped out of a sheet of steel. The square in the center is discarded. These components are stamped out of a continuous steel coil with a width of 70cm. The stamping process requires a gap of 25mm between each component. The steel coil is supplied in lengths of 25m costing PHP200.

7. What is the approximate area of the remaining shape in sq. cm.?

- A. 1938 B. 1855
C. 1926 D. 1880
E. 1760

8. What is the approximate % of steel wasted including the center square?

- A. 56 B. 50 C. 62 D. 48 E. 52

9. Assuming minimal wastage, how many components can be produced from each 25 meter coil?

- A. 38 **B. 40** C. 36. D. 42 E. 37

10. What is the approximate cost of a component if the scrap is sold at 50% of cost in PHP?

- A. **3.60** B. 3.15 C. 3.55
D. 5.00 E. 4.85

C. Verbal Reasoning

1. Adulation: Criticism :: **D**

- A. Consent: Accede
B. Abortive: Unsuccessful
C. Steal: Amble
D. Wax: Wane

2. Magnificent: Grandiose :: **C**

Grandiose means magnificent and Dwindle means lessen

- A. Praising: Derogatory
B. Reconcile: Alienate
C. Lessen: Dwindle
D. Devoid: Suspecting

3. Think: Ratiocinate :: **A To Rationale is to think, similarly voracious is to Ravenous.**

- A. Voracious: Ravenous
B. Dilate: Divert
C. Fiery: Aquiver
D. Silence: Din

4. Agility: Awkwardness **C**

- a. Deviation : Aberration
b. Recidivist : Backslider
c. Abstinent : Gorge



d. Profound : Suspended

A well-nourished child can be more likely to be a studious one. But food has been seen as a cost to be cut in times of austerity, rather than an ingredient of good schooling. That may now be changing: as the government worries about obesity- which is fast rising among children- and urges everyone to eat less salt, fat and sugar, and more fruit and vegetables, the deficiency and unhealthiness of most school meals is striking. But cash constraints make change difficult.

5. Children who eat healthy will perform better in exams.

- a. True
- b. False
- c. Cannot say
- d. I don't know the answer

6. The level of child obesity has differed over the years.

- a. True
- b. False
- c. Cannot say
- d. I don't know the answer

7. The government is apathetic about obesity

- a. True
- b. False
- c. Cannot say
- d. I don't know the answer

If society seems obsessed with youth, it is at least because companies are. Like it or not, the young increasingly pick the styles and brands that trickle up to the rest of the population. Nike, Abercrombie & Fitch and Timberland first found success with the young, and when that clientele tires of them the companies felt the loss deeply. Now that adults are no longer necessarily expected to act and look grown-up, parents and children can be found listening to exactly the same music, playing the same computer games, watching the same TV programmes, and wearing the same brands of clothes and shoes.

8. An adult's style can sometimes be similar to that of a child's.

- a. True
- b. False
- c. Cannot say
- d. I don't know the answer

9. The profits of Timberland are not affected by young customers.

- a. True
- b. False
- c. Cannot say
- d. I don't know the answer

10. Adults wear the same shoes as children because they want to look younger.

- a. True
- b. False
- c. Cannot say
- d. I don't know the answer

MATHEMATICS

1. John's father is 5 times older than John and John is twice as old as his sister Alice. In two years time, the



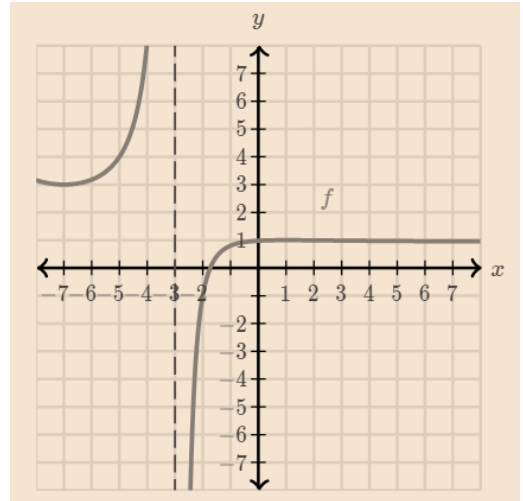
- sum of their ages will be 58. How old is John now?
- 8
 - 5
 - 10
 - 4
- Twice the larger of two numbers is three more than five times the smaller, and the sum of four times the larger and three times the smaller is 71. What are the numbers?
 - 5 and 14
 - 4 and 15
 - 6 and 13
 - 3 and 16
 - The average of 10 student scores is 82, but the student mistakenly recorded two values of 79 as 78 and three values of 83 as 85. What is the true average of the set of scores?
 - 80.9
 - 81.6
 - 82.4
 - 83.1
 - Suppose one painter can paint the entire house in twelve hours, and the second painter takes eight hours to paint a similarly-sized house. How long would it take the two painters together to paint the house?
 - 2.4 hours
 - 4.8 hours
 - 3.6 hours
 - 9.6 hours
 - Find the center of a circle passing through (6,8) and (-8,-6) with a radius of 10.
 - (0,4)
 - (0,0)
 - (-4,0)
 - (3,0)
 - What is the slope of a line perpendicular to a second line passing through (5,2) and (9,1)?
 - 4
 - 0.25
 - 0.25
 - 4
 - For $f(x) = \frac{3x-5}{4x}$, find $f^{-1}(2)$?
 - 1
 - 1
 - 0
 - ∞
 - The value of 0.25π rad in degrees is:
 - 90°
 - 45°
 - 60°
 - 30°
 - The ordinate value for $\theta = 60^\circ$ is:
 - 0
 - $\frac{\sqrt{3}}{2}$
 - $\frac{\sqrt{2}}{2}$
 - $\frac{1}{2}$
 - The identity $(\cot x + \tan x)$ is equivalent to:
 - $\cos x \csc x$
 - $\sin x \sec x$
 - $\sec x \csc x$
 - $\sin x \cos x$
 - An arithmetic sequence has its 5th term equal to 22 and its 15th term equal to 62. Find its 100th term.
 - 308
 - 406
 - 402
 - 410
 - Evaluate $x = \log_5 \sqrt[3]{25}$



- a. 0.3333
 b. 0.6667
 c. 0.5000
 d. 0.8750
13. An integer from 100 through 999 is to be chosen at random. What is the probability that the chosen number will have at least one digit be zero?
 a. $19/900$
 b. $81/900$
 c. $90/900$
 d. $171/900$
14. A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw?
 a. 56
 b. 64
 c. 73
 d. 75
15. If n is a positive integer such that $n!/(n-2)! = 342$, find n .
 a. 19
 b. 17
 c. 18
 d. 16
16. Solve for x in the following equation:
 $x + 3x + 5x + 7x + \dots + 49x = 625$
 a. 2
 b. 1
 c. $1/2$
 d. $1/3$
17. The function f is defined for all real numbers except for $x = -3$

What is a reasonable estimate for

$$\lim_{x \rightarrow 3} f(x) ?$$



- a. -3
 b. 1
 c. 0
 d. The limit does not exist
18. The tangent of the curve $y = x^2 - 5x + 6$ is zero at which of the following values of x ?
 a. 2 and 3
 b. 2.5
 c. 6
 d. $2x-5$
19. Which of the following is the indefinite integral of $x^2 + 7$?
 a. $2x + C$
 b. $\frac{1}{3}x^3 + 7x$
 c. $x^3 + 7x$
 d. $\frac{x^3}{3} + C$
20. Which of the following correctly evaluates the definite integral $\int_1^3 (x^2 + 3x + 2) dx$?
 a. $97/3$
 b. $110/3$



c. 74/3

d. 4

ANSWERS

1.

$$\begin{aligned} X &= \text{Father} \\ Y &= \text{John} \\ Z &= \text{Alice} \end{aligned} \quad \begin{aligned} (2+X) + (2+Y) + (2+Z) &= 58 \\ 5Y + Y + \frac{Y}{2} &= 52 \\ 5Y &= \cancel{X} \\ Y &= 2Z \end{aligned} \quad \begin{aligned} \frac{13}{2}Y &= 52 \\ Y &= 8 \end{aligned}$$

2.

$X = \text{larger number}$
 $Y = \text{smaller number}$

$$\begin{aligned} \textcircled{1} \quad 2X &= -5Y + 3 & 4X + 3Y &= 71 \\ \textcircled{1} \quad 2X + (-5Y) &= 3 & 2X - 5Y &= 3 \\ \textcircled{2} \quad 4X + 3Y &= 71 & X &= 14 \\ & & Y &= 5 \end{aligned}$$

3.

$$\begin{aligned} \bar{x} = 82 &= \frac{5x + 79(2) + 83(3)}{10} \\ x &= 82.6 \\ \bar{x} &= \frac{5(82.6) + 78(2) + 85(3)}{10} \\ \bar{x} &= 82.4 \end{aligned}$$

4.

Painter A: Time = $\frac{12 \text{ hr}}{\text{Job}}$, rate = $\frac{1}{12} \frac{\text{Job}}{\text{hr}}$
Painter B: Time = $\frac{8 \text{ hr}}{\text{Job}}$, rate = $\frac{1}{8} \frac{\text{Job}}{\text{hr}}$

$\frac{1}{x}$: rate together

$$\begin{aligned} \frac{1}{12} + \frac{1}{8} &= \frac{1}{x} \\ 2x + 3x &= 24 \\ x &= \frac{24}{5} \approx 4.8 \text{ hrs} \end{aligned}$$

5.

(0,0) – Insert the values in the choices to the formula of the circle with center at (h,k)
 $(x-h)^2 + (y-k)^2 = r^2$

6.

$$\begin{aligned} m &= \frac{y_2 - y_1}{x_2 - x_1} \\ m &= \frac{1 - 2}{9 - 5} = \frac{1}{4} \\ m_{\perp} &= -\frac{1}{m} \\ &= -\frac{1}{\frac{1}{4}} \\ m_{\perp} &= -4 \end{aligned}$$

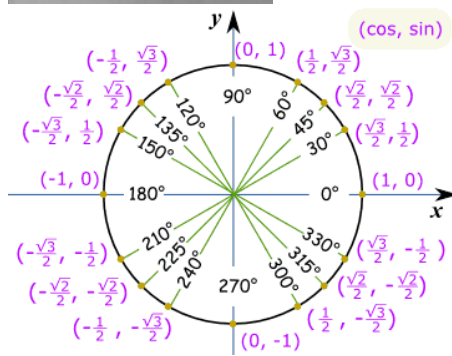
7.

$$\begin{aligned} f(x) &= 3x - 5 \\ y &= \frac{3x - 5}{4x} \\ 4xy - 3x &= -5 \\ x(4y - 3) &= -5 \\ x &= \frac{-5}{4y - 3} \\ f^{-1}(x) &= \frac{-5}{4x - 3} \end{aligned} \quad \begin{aligned} f^{-1}(2) &= \frac{-5}{4(2) - 3} \\ f^{-1}(2) &= -1 \end{aligned}$$

8.

$$\begin{aligned} \theta &= 0.24\pi \left(\frac{180^\circ}{1\pi} \right) \\ \theta &= 45^\circ \end{aligned}$$

9.



The Ordinate is the y-axis, while the Abscissa is the x-axis



$$\begin{aligned}
 &= \cot x + \tan x \\
 &= \frac{\cos x}{\sin x} + \frac{\sin x}{\cos x} \\
 &= \frac{\cos^2 x + \sin^2 x}{\sin x \cos x} \\
 &\therefore \cos^2 x + \sin^2 x = 1
 \end{aligned}
 \quad \left. \begin{aligned}
 &\frac{1}{\sin x \cos x} \\
 &= \sec x \csc x
 \end{aligned} \right\}$$

10.

$$\begin{aligned}
 a_n &= a_1 + (n-1)d \quad \text{no of terms from } n=5 \text{ to } n=15 \\
 62 &= 22 + ((15-4)-1)d \\
 d &= 4 \\
 a_{100} &= 22 + ((100-4)-1)(4) \\
 a_{100} &= 402
 \end{aligned}$$

11.

$$\begin{aligned}
 x &= \log_5 \sqrt[3]{25} \\
 x &= \log_5 25^{\frac{1}{3}} \\
 x &= \frac{1}{3} \log_5 25 \\
 x &= \frac{1}{3} (2) \\
 x &= 0.6667
 \end{aligned}$$

12.

Numbers that has atleast (1) zero

100, 200, ..., 900	= 9
10, 120, 190, ..., 190	= 8
⋮	⋮
910, 920, ..., 990	9

$$\frac{9+8 \times 9}{9} = 81$$

Total no of 900 events $\therefore \frac{81}{900}$

13.

Total no of ways:

$$\begin{aligned}
 &= {}^3C_3 + ({}^3C_2 \times {}^6C_1) + ({}^3C_1 \times {}^6C_2) \\
 &\quad \uparrow \quad \quad \quad \uparrow \quad \quad \quad \uparrow \\
 &\text{all three} \quad \text{Two are black} \quad \text{one is black} \\
 &\text{are black} \quad \text{one is not black} \quad \text{two is not black}
 \end{aligned}$$

$$\begin{aligned}
 &= 1 + [3 \times 6] + [3 \times \frac{6 \times 5}{2 \times 1}] \\
 &= 1 + 18 + 45 = 64
 \end{aligned}$$

14.

$$\begin{aligned}
 \frac{n!}{(n-2)!} &= \frac{x(x-1)(x-2)(x-3) \dots (x-(n+1))}{(x-2)(x-3) \dots (x-(n+1))} \\
 &= x(x-1) = 342 \\
 x^2 - x - 342 &= 0 \\
 \boxed{x=19}
 \end{aligned}$$

15.

$$\begin{aligned}
 x+3x+5x+7x+\dots+49x &= 625 \\
 a_1 & \quad \quad \quad a_n \\
 a_n &= a_1 + (n-1)d \\
 49 &= 1 + (n-1)2 \\
 n &= 25 \\
 S_n &= \frac{n}{2} (a_1 + a_n) \\
 &= \frac{25}{2} (1+49) \\
 S_n &= 625
 \end{aligned}$$

16.

17. @ $x=3, y=1$

$$\begin{aligned}
 y &= x^2 - 5x + 6 \\
 \frac{dy}{dx} &= 2x - 5 = 0 \\
 x &= \frac{5}{2} \\
 x &= 2.5
 \end{aligned}$$

18.

$$\begin{aligned}
 \int x^n dx &= \frac{1}{n+1} x^{n+1} + c \\
 \int x^2 + 7 &= \frac{x^3}{3} + 7x + c
 \end{aligned}$$

19.



20.

$$\begin{aligned}\int_1^3 (x^2 + 3x + 2) dx &= \left[\frac{x^3}{3} + \frac{3x^2}{2} + 2x \right]_1^3 \\ &= \left[\frac{(3)^3}{3} + \frac{3(3)^2}{2} + 2(3) \right] - \left[\frac{(1)^3}{3} + \frac{3(1)^2}{2} + 2(1) \right] \\ &= 74/3\end{aligned}$$



ENGLISH

Instructions: Choose the meaning of the underlined phrases from the given choices.

1. Even though they had a nasty fight, they decided to bury the hatchet and move on.

- a. kill the enemy
- b. remember the past
- c. bury the dead
- d. **forget the past quarrel**

2. My father always reminds us, "don't count your chickens before the eggs have hatched."

- a. Don't eat your eggs before they are cooked.
- b. **Don't make plans for** something that might not happen.
- c. Don't deal with your problems before they are solved.
- d. All of the above.

3. iPhones became so popular not only to teens, even my grandparents jumped on the bandwagon and bought some.

- a. ride on the gadget and sell Apple
- b. jump for technology and sell iPhones
- c. **joined the new trend and bought iPhones**
- d. bought Android and Apple

4. I like my friend Rosario because she is one of those persons who call a spade a spade.

- a. good card player
- b. gives sound advice
- c. **says precisely what she means**

d. knows the answers to almost all questions

Instruction: Choose the answer that best completes the sentence

5. The volunteers from the fire department _____ quickly and extinguished a fire on North Country Road.

- a. will respond
- b. **responded**
- c. will have responded
- d. have responded

6. In Tuesday's paper, the owner of the supermarket was recognized for helping a customer who _____ on the icy sidewalk.

- a. falls
- b. **had fallen**
- c. would fall
- d. has fallen

7. We went to the fair with Lea and _____.

- a. he
- b. **him**
- c. himself
- d. hisself

8. _____ of participants in the marathon had to pull out of the race because of extreme dehydration.

- a. The number
- b. Few
- c. Many
- d. **A number**

Instruction: Choose the best order and sequence of the following



sentences to form a well-organized paragraph.

- 9.
- A. This will be one of your tickets to land a job in the government.
 - B. That is why many people apply to take the Career Service examination.
 - C. If you passed the exam, you will get a certificate of eligibility.
 - D. Career Service Eligibility is a major requirement to apply for a job position in the government.
 - a. DCBA
 - b. DBAC
 - c. **DBCA**
 - d. DCAB
- 10.
- A. Your passport will arrive in 7 days if you choose the rush processing.
 - B. Getting a passport is faster nowadays.
 - C. Now, it only takes about 10 working days.
 - D. Compared before, it would take about a month for the regular processing.
 - a. BCAD
 - b. **BDCA**
 - c. BADC
 - d. BACD
- 11.
- A. Facebook has been the number one social network in the web and the world for quite long now.
 - B. Mobile instant messaging apps are also dominating social presence in the internet.
 - C. After many acquisitions, Facebook bought Instagram, one of the fastest growing photo sharing

networks.

- D. Because of that, Facebook acquired WhatsApp, a leading instant chat platform like Kakaotalk.
 - a. **ACBD**
 - b. ABCD
 - c. ADCB
 - d. ADBC
- 12.
- A. They will help you to purchase through zero-interest installment schemes.
 - B. Thus, you must be wise and pay in full if you want to avoid never-ending debts.
 - C. Credit cards are helpful if you know how and when to use them wisely.
 - D. However, they will produce interests from interests if you didn't pay the whole amount at the due date.
 - a. CDBA
 - b. CABD
 - c. CDAB
 - d. **CADB**

Instruction: Read each paragraph or passage below and select the best answer for what is being asked.

13. There are around 2 million Filipinos without jobs today. That includes graduates and undergraduates. According to survey, there will be another half-million to graduate this year without possible job placements. Unemployed people complain about job shortage. Many go to the cities to apply to some companies but end up going home with nothing. Unemployment rate



increases each year even though there are many job fairs.

The paragraph states that...

- a. Unemployment in the Philippines is common
- b. **Unemployment rate in the Philippines is seriously increasing**
- c. Unemployment in the Philippines must be solved
- d. Unemployment solutions for Filipinos

14. “In the Olympic Peninsula of northwest Washington State, a small town named Forks exists under a near-constant cover of clouds. It rains on this inconsequential town more than any other place in the United States of America. It was from this town and its gloomy, omnipresent shade that my mother escaped with me when I was only a few months old. It was in this town that I'd been compelled to spend a month every summer until I was fourteen. That was the year I finally put my foot down; these past three summers, my dad, Charlie, vacationed with me in California for two weeks instead.

It was to Forks that I now exiled myself – an action that I took with great horror. I detested Forks.

I loved Phoenix. I loved the sun and the blistering heat. I loved the vigorous, sprawling city.”

-Stephen Meyer, “The Twilight Saga”

Provide the specific setting of the story

- a. Phoenix
- b. Rainy day
- c. **Forks, Washington**
- d. Twilight

15. “It’s twenty-five after six and the sky still has some shades of purple and orange...oh well just like me, I am standing here, in this secretive rooftop, overjoyed...yet there are still some fragments of fear and haze... I wonder if the sky is glad and excited about the night or if it is crying over the bright day that passed.” – Fehl Dungo –

“Higher than the Rooftop”

What is the mood of the story?

- a. Happiness
- b. Sorrow
- c. **Confusion**
- d. Grief

16. Investing has been a hot topic for quite a while. Many people especially employees and entrepreneurs don't rely on time deposits and regular savings account to save and earn interests. The most common investments in the Philippines are through real estates, mutual funds and trust funds. Although few people also join trading in the stock market, more and more Filipinos are not reluctant to invest their money and diversify them to different money making wheels.

What does the article try to convey?

- a. **Filipinos are now willing to open different investments.**
- b. Filipinos are wise in saving their money.
- c. Filipinos rely mainly on savings and deposit accounts.
- d. Filipinos invest in real estates, mutual funds and trust funds.



17. What is suggested in the opening line? June 13, 1986 - they came from all over America - 200,000 heroes strong, with their families.

- a. The writer holds great admiration for the veterans
- b. The writer is opposed to the Vietnam War
- c. The writer was a veteran of the war
- d. The writer is a flag-waving patriot

18. "She is a vision of feminine pulchritude." This stands for the following EXCEPT

- a. Loveliness
- b. Comeliness
- c. Homeliness
- d. Physical beauty

19. Cognizant of the real situation. What does the underline word mean?

- a. afraid
- b. aware
- c. firm
- d. prepared

20. Stymied wedding plans. What does the underline word mean?

- a. expensive
- b. funny
- c. glamorous
- d. thwarted



TEACHING APTITUDE

1. Arrange the following teaching process in order
 - (i) relating the present knowledge with the previous knowledge
 - (ii) evaluation
 - (iii) reteaching
 - (iv) formulating objectives
 - (v) presentation of materials
 - a. (i), (ii), (iii), (iv)
 - b. (ii), (i), (iii), (iv), (v)
 - c. (v), (iv), (iii), (i), (ii)
 - d. (iv), (i), (v), (ii), (iii)
2. A teacher who is not able to draw the attention of his students should
 - a. evaluate his teaching method and improve it
 - b. resign from the post
 - c. find fault in his pupils
 - d. start dictating
3. If majority of students in your class are weak you should
 - a. not care about the intelligent students
 - b. keep your speed of teaching fast so that student comprehension level may increase
 - c. keep your teaching slow
 - d. keep your teaching slow along with some extra guidance to bright pupils
4. The field of education is permeated by conflicts and misconception because
 - a. problems in education call for subjectivity of interpretation
 - b. problems encountered in teaching are not amenable to rigorous scientific investigation
 - c. there are not good teaching methods and procedures
 - d. teachers are not worthy of doing rigorous scientific investigation
5. Which of the following is the most important single factor in underlying the success of beginning a teacher?
 - a. Scholarship
 - b. communicative ability
 - c. personality and its ability to relate to the class and to the pupils
 - d. organizational ability
6. If back-benchers are always talking in the classroom a teacher should
 - a. let them do what they are doing
 - b. punish them
 - c. ask them to sit on the front benches
 - d. none of the above



7. If some of your pupils misbehave with you in the college campus you must
 - a. report to the principal
 - b. report to their parents
 - c. improve their behaviour by your own character and scholarship
 - d. mobilize other teachers against these guys
8. Effective teaching means all of the following except
 - a. a teacher teaches with enthusiasm
 - b. a teacher finds fault in his students
 - c. a teacher puts emphasis more on teaching than on class control
 - d. a teacher is interested in making the subject matter understood rather than on completing the course
9. A teacher
 - a. should introduce the lesson before he starts teaching
 - b. should have command over his language
 - c. should have command over his subject
 - d. all of the above
10. If a teacher is not able to answer the question of a pupil he should
 - a. say that he will answer after consultation
 - b. rebuke the pupil
 - c. say that the question is wrong
 - d. feel shy of his ignorance
11. If students are not able to follow, you should
 - a. give them prompt
 - b. make the matter easy
 - c. illustrate with examples
 - d. All of the above
12. All of the following are the characteristic features of an effective teacher except
 - a. emphasis upon standard
 - b. emphasizing group discussion for the purpose of clarifying the objectives
 - c. emphasis upon the quick control of the problematic situation
 - d. differential treatment meted out to students of his class
13. An effective teacher adopts the norms of
 - a. democratic society
 - b. leizes faire society
 - c. autocratic society
 - d. all of the above according to the situation
14. The introduction of career courses in schools and colleges aims at
 - a. developing the ability to make the in-telligent choice of jobs
 - b. providing professional knowledge to students
 - c. increasing G.K. in students



- d. all of the above
- 15. Classroom discipline can be maintained effectively by
 - a. knowing the cause of indiscipline and handling it with stern hand
 - b. providing a programme which is according to the need and interest of the pupils
 - c. by putting on fancy clothes in the classroom
 - d. none of the above
- 16. Quality of education in a school/college can be measured through
 - a. infrastructural facilities available
 - b. manpower, teachers and principal available
 - c. student achievements
 - d. all of the above
- 17. A teacher in the class is
 - a. the president of the group
 - b. a director of the group
 - c. a leader and guide of the group
 - d. all of the above
- 18. In the final analysis, teaching must be thought of mainly as a process of
 - a. asking questions and evaluating the learning
 - b. directing the activities of the pupils
 - c. hearing the recitation of pupils
 - d. all of the above
- 19. Teachers primary responsibility lies in
 - a. planning educational experiences
 - b. implementing policies
 - c. keeping students records
 - d. all of the above
- 20. The best educational programme is one which is according to the
 - a. need of the child
 - b. ability of the child
 - c. interest of child
 - d. all of these

Sources:

SYESIYA-bilidad: Developing One's Skills in Test-Taking (DOST-SEI)

<http://www.avatto.com>

www.psychometric-success.com

