



General Education Test Booklet

Ace the board exam!

Volume 1
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TOPNOTCHER'S BLEPT REVIEWERS

K12-CONGRUENT, OBE-COMPLIANT
AND DNCBTS-BASED, QUESTIONS WITH
VERIFIED ANSWERS & SELECTED
RATIONALIZATIONS



PART I (*150 questions*)

1. She has _____ to get your advice.
 - A. come
 - B. came
 - C. comes
 - D. coming
2. Who is considered as the master of short story writing?
 - A. Edgar Allan Poe
 - B. Jose Rizal
 - C. Leo Tolstoy
 - D. Ruyard Kipling
3. The Thomasites are the _____.
 - A. teacher from UST
 - B. teacher from America
 - C. American Soldiers
 - D. Followers of St. Thomas
4. Neither Jordan nor his brothers _____ leaving the company.
 - A. is
 - B. was
 - C. are
 - D. were
5. In developmental reading, this pertains to the familiarity of the students toward the sounds of the language.
 - A. Phonemic Awareness

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- B. Phonology
 - C. Syntax
 - D. Semantics
6. In epic, Iliad and Odyssey, who is the most trusted friend of Achilles?
- A. Hector
 - B. Patroclus**
 - C. Agamemnon
 - D. Paris
7. In cueing system, this pertains to the structure of grammar.
- a) Phonology
 - b) Semantics
 - c) Morphology
 - d) Syntax**
8. The Barangay chairman said, "I _____ won the elections without the money."
- A. could
 - B. should have not**
 - C. shall have not
 - D. should of
9. "How much money did you bring for shopping?" Which of the following answers this question?
- A. None, but I have a credit card.**
 - B. All the cash I have was spent at the grocery store yesterday.
 - C. I have some change in my purse.
 - D. I have P500.00 inside the envelope in my desk.
10. The laborers are so happy that _____ now reaping the fruit of _____ efforts.
- A. they're - their**

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- B. there – their
 - C. they're - there
 - D. their – their
11. The family that _____ together, _____ together.
- A. prays - stays
 - B. pray - stay
 - C. prayed - stayed
 - D. praying – staying
12. _____ 1,000 species of monkeys have been identified.
- A. As many
 - B. Much as
 - C. As many as _____
 - D. As much as
13. Who wrote the novel “A Christmas Carol” which is about a man who hates Christmas?
- A. Charles Dickens
 - B. H.G. Wells
 - C. Oscar Wilde
 - D. D.H. Lawrence
14. “You are the sunshine of my life.” What figure speech is used?
- A. Simile
 - B. Metaphor
 - C. Personification
 - D. Hyperbole
15. Triangle : Three
- A. cobra : venom

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- B. octagon : eight
 - C. mosquito : malaria
 - D. ellipse : oval
16. Who is the Roman goddess of wisdom?
- A. Athena
 - B. Hera
 - C. Minerva
 - D. Venus
17. Mary Ann Evans is the pen name of _____.
- A. George Eliot
 - B. Jane Seymour
 - C. Emily Watts
 - D. Anne Brad sheet
18. The last two lines of the sonnet is _____?
- A. Couplet
 - B. Couply
 - C. Coupled
 - D. Heroic Couplet
19. The first library in the world?
- A. UST Library
 - B. Beijing Imperial Library
 - C. Ashurbannipal Library
 - D. Alexandria Library
20. What is the biggest hindrance in learning second languages?
- A. Structure of language

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- B. Cross-cultural issues
 - C. Imagery
 - D. Grammar
21. Ito ay ang Alpabeto na binubuo ng 17 titik na ang tatlo'y patinig at ang 14 ay katinig?
- A. Alfabetong Romano
 - B. Alfabetong Filipino
 - C. **Baybayin**
 - D. Alfabetong Pilipino
22. Ito ay awit sa panliligaw?
- A. Kundiman
 - B. kumintang
 - C. Talindaw
 - D. **Diona**
23. Ito ang kauna-unahang aklat na nilimbag sa Pilipinas sa pamamagitan ng silograpiya noong 1593.
- A. **Doctrina Cristiana**
 - B. Barlaan at Josaphat
 - C. Nuestra Señora del Rosario
 - D. Urbana at Feliza
24. Ito ay Aklat ni Rizal na inilimbag noong 1887 sa Berlin at nagpapasigla sa Kilusang Propaganda?
- A. Mi Ultimo Adios
 - B. El Filibusterismo
 - C. **Noli Me Tangere**
 - D. A La Juventud Filipino
25. Ito ay sagisag panulat ni Mariano Ponce maliban sa isa?
- A. Naning

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- B. Kalipulako
 - C. Pingkian
 - D. Tikbalang
26. Ang batas na nagpapatupad ng paggamit ng Wikang Pilipino, hanggat maari sa Linggo ng Wikang Pambansa, sa lahat ng opisyal na komunikasyon at transaksyon ng pamahalaan ay _____.
A. Kautusang pangkagawaran Blg. 7
B. Batas komonwelt Blg. 570
C. **Kautusang Pangkagawaran Blg. 187**
D. Kautusang Pangkagawaran Blg. 81
27. Ang Ama ng Katipunan ay si _____.
A. **Andres Bonifacio**
B. Emilio Jacinto
C. Apolinario Mabini
D. Emilio Aguinaldo
28. Ito ay ang bukas na talakayan ng mga pananaw o opinion nang walang pangamba o takot na ito ay maaring "mali."
A. Brainstorming
B. **Buzz Session**
C. Panel
D. Forum
29. Sa anung uri ng tayutay ito. Sya ay isang kawal na habang nasusugatan ay lalong tumatapang.
A. Pagtatao
B. **Pagwawangis**
C. Pagpatalit-tawag
D. Pagpatalit-wika
30. Ang sarswelang higit na kaugnay ng pangalang Severino Reyes ay ____.

- A. Dalagang Bukid
 - B. R.I.P.
 - C. Walang Sugat
 - D. Minda Nora
31. Ang dulang ito ay itinuturing na drama simboliko noong 1903.
- A. Nena at Neneng
 - B. Sampaguitang walang banggo
 - C. Kahapon, Ngayon at Bukas
 - D. Lihim ng isang pulo
32. Kunin mo ang walis at _____ at maglilinis ako.
- A. Pangdakot
 - B. Pamdakot
 - C. Pandakot
 - D. Pang-dakot
33. Ang aking mga mag-aaral sa Filipino ay laging nagsusunog ng kilay.
- A. Lumiliban sa klase
 - B. Nagsisikap sa pag-aaral
 - C. Pumapasa sa pagsusulit
 - D. Naglalaro ng apoy
34. Mag-ingat ka sa pagpapasok sa inyong bahay ng mga bisisitang malikot ang kamay.
- A. Mapagsamantala
 - B. Mapanira ng gamit
 - C. Magnanakaw
 - D. Matakaw
35. Ayusin ang talata.

1. Sila ang nagtagtag ng kani-kanilang pamayanan na nang lumaon ay tinawag na barangay.
 2. Ayon sa kasaysayan, sila ay tumakas sa kanilang bayan dahil sa masamang pamamalakad ni sultan Makatunaw.
 3. Maraming libong taon na ang nakalipas bago pa man dumating ang mga Kastila sa ating kapuluan. Isang pangkat ng mga taga-Borneo ang dumating sa dalampasigan.
 4. Sila'y pinamumunuan ng sampung datu.
 5. Naglalakbay sila na sakay ng mga balangay.
 - A. 34215
 - B. 34251
 - C. 32415
 - D. 32451
36. Ang _____ ay talaan ng mga pansariling iniisip, nadarama, karanasan, plano at kung ano-ano pa ng isang indibidwal.
- A. Talaarawan
 - B. Talambuhay
 - C. Rebyu
 - D. Sanaysay
37. Ang gitara ay isang uri ng instrumentong pangmusika na nahahanay o nauuri sa string. Upang tumunog ang instrumentong ito ay kailangan mo itong kalabitin ng kanang kamay at titipahin naman ng kaliwang kamay.
- A. Paghahambing at pagkokontrast
 - B. Sanhi at bunga
 - C. Depinisyon
 - D. Enumersyon
38. Ano ang salin ng "A thing of beauty is a joy forever?"
- A. Ang isang bagay na maganda ay masaya at magpakailanman
 - B. Ang kaligayahan ay maganda magpakailanman
 - C. Kaligayahan magpakailanman ang isang bagay na nagtagtaglay ng kagandahan

- D. kaligayahan ang isang bagay na nagtagay ng maganda at magpakailanman
39. Ano ang ibig sabihin nito "wika ang kaluluwa ng isang lahi".
- A. Ang wika ay kaluluwa ng isang lahi dahil naitatala nito ang kasaysayan
 - B. Ang wika ay may damdamin
 - C. Ang wika ay nakapagpapahayag ng niloloob ng tao
 - D. Ang tao at wika ay kapwa may kaluluwa
40. Matapos ang maghapong Gawain siya ay lugami na. Ano kahulugan ng salita na nakasalungguhit.
- A. Lupaypay
 - B. Gumo
 - C. Lubog
 - D. Guho
41. Which of the following is in the thousandths place? 1,564.78923
- A. 1
 - B. 2
 - C. 5
 - D. 9
42. Which of the following is a factor of 54?
- I. 3 II. 6 III. 9
- A. I and II only
 - B. I and III only
 - C. II and III only
 - D. I, II and III
43. In a class of Mathematics, $\frac{1}{2}$ of the class got 75, $\frac{1}{8}$ got the score of 76-80, and $\frac{1}{4}$ for above 80. What is the fractional part of the failure?
- A. $\frac{2}{8}$

- B. $\frac{7}{8}$
C. $\frac{1}{8}$
D. $\frac{4}{12}$
44. Two angles whose sum of degrees is equal to 180° ?
A. Complimentary
B. Obtuse
C. Supplementary
D. Vertical
45. The average of 5 students is 85. The average of the first 3 student is 84. What is the average of the other 2 students?
A. 84
B. 86.5
C. 85
D. 83.9
46. Express the term $49^{5/2}$ in its simplest form.
A. 35
B. 7^5
C. $\sqrt{49^5}$
D. 16807
47. If $x/y = 8$, which of the following must be true?
A. x can be zero.
B. x and y cannot be integers.
C. x and y must both have the same signs.
D. x and y must both be multiples of 8.
48. Which of the following set of fractions are equal?
A. $(\frac{4}{7}, \frac{3}{5})$

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- B. $(5/7, 2/3)$
 - C. $(6/2, 15/5)$
 - D. $(3/8, 4/9)$
49. Joel buys 3 apples for 50.00 pesos. How much does he pay for 2 dozens of these apples?
- A. $100/3$
 - B. 400.00
 - C. $3/100$
 - D. 100.00
50. Joel read six pages of the book in one day. After reading six pages he rest for one day. If there are 54 pages how many days will he finish reading?
- A. 9
 - B. 17
 - C. 18
 - D. 10
51. A father is 3 times as old as his son. In 15 years, he will just be 2 times as old as his son will be. Find the present age of the father.
- A. 60
 - B. 45
 - C. 50
 - D. 40
52. Which of the following is the Commutative Property of Addition?
- A. $(2 + 3) + 4 = 2 + (3 + 4)$
 - B. $3 + 4 = 7$
 - C. $4 + (-4) = 0$
 - D. $(2 + 3) + 4 = 4 + (2 + 3)$
53. The average of 5 students is 85. The average of the first 2 students is 88. What is the average of the other 3 students?

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- A. 81
 - B. 83
 - C. 82
 - D. 84
54. 12.5 % of 30 is what number?
- A. 3.5
 - B. 4.75
 - C. 3.75
 - D. 4.5
55. Last year, 2000 students enrolled in Milestone Review classes. This year, enrolment increased by 8%. How many students enrolled this year?
- A. 2160
 - B. 2100
 - C. 2200
 - D. 2180
56. A TV set that originally cost P15,000 is now sold P12, 000. What is the percentage decrease in the price of the TV set?
- A. 5%
 - B. 10%
 - C. 15%
 - D. 20%
57. A 180-degree angle is divided into 3 in the ratio 1:3:5. What is the measure of the biggest angle?
- A. 80°
 - B. 120°
 - C. 60°
 - D. 100°

58. After receiving a 20% discount, Lawrence paid Php 180 for an item. What is the regular price of the item?
- A. Php 250
 - B. **Php 225**
 - C. Php 275
 - D. Php 200
59. A store allows 25% discount of all items. How much does a buyer pay for an item which is marked P1200?
- A. **Php 900**
 - B. Php 1000
 - C. Php 950
 - D. Php 850
60. The number of hours spent for review in Science, English and Math is in the ratio 2:1:5. How many hours does each other student spend for Math in a 120-hour review package?
- A. **75**
 - B. 70
 - C. 50
 - D. 60
61. In which layer of the atmosphere does weather occur?
- A. Stratosphere
 - B. Ionosphere
 - C. **Troposphere**
 - D. Mesosphere
62. What motion of the earth causes the occurrence of night and day?
- A. Revolution
 - B. **Rotation**
 - C. Solar translation

- D. Inclination of axis
63. What forces keeps the planets in their orbits?
- Magnetism and inertia
 - Inertia and gravity
 - Revolutionary forces
 - Gravity and electromagnetism
64. Why can the astronauts jump higher on the moon than earth?
- Moon's gravity is one-sixth than earth.
 - There is no atmosphere on the moon
 - Their mass is less.
 - Moons gravity is more than one.
65. During the earth's revolution seasons occur due to the _____.
- Inclination of the earth's orbit.
 - Inclination of the earth's axis.
 - Rate of earth's revolution.
 - Rate of earth's rotation.
66. What is the seasonal wind that is experienced from December to February, also called the "hanging amihan?"
- Southwest monsoon
 - Tropical winds
 - Northeast monsoon
 - Trade winds
67. How long does earth complete one journey around the sun?
- 365 days
 - 365 ¼ days
 - 24 hours

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- D. 27 1/3 days
68. Choose which material could be used as insulator.
- A. Iron
 - B. Copper
 - C. Plastic
 - D. Aluminium
69. The application of the findings of science for practical purposes is called _____.
- A. fact
 - B. data
 - C. technology
 - D. experimentation
70. Identify the following quantities as scalar or vector respectively: mass of an object, the number of leaves on a tree, and wind velocity.
- A. Scalar, Scalar, Vector
 - B. Vector, Scalar, Scalar
 - C. Scalar, Vector, Vector
 - D. Vector, Scalar, Vector
71. Using your test tube, you are asked to boil about 10 mL of water. What is the proper way of holding the test tube when you're working with somebody in a laboratory?
- A. Keep it away from anybody else.
 - B. Face the test tube to him while heating.
 - C. Hold it directly above the flame
 - D. All of the above.
72. What will you use to transfer a liquid in a small-mouthed bottle without spilling?
- A. stirring rod
 - B. funnel

- C. petri dish
 - D. watch glass
73. Used in spreading the flame of the alcohol lamp.
- A. hot plate
 - B. Bunsen burner
 - C. watch glass
 - D. wire gauze
74. Pure water freezes at _____.
- A. 0°C
 - B. 10°C
 - C. 37°C
 - D. 100°C
75. Water dripping continuously from the cave will eventually produce a long ice like deposit of calcites which hangs from the roof. This is called
- A. Stalactite
 - B. Stalagmite
 - C. Sinks
 - D. Geode
76. Which is NOT true regarding metals?
- A. Metals are malleable and ductile
 - B. Metals have high tensile strength.
 - C. Metals are good conductors of heat.
 - D. Metals are poor reflectors of light.
77. An atom of element Calcium has mass number 40 and atomic number 20. What is the number of protons and neutrons of this atom?
- A. 40 p+ and 20 n

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- B. 20 p+ and 20 n
 - C. 40 p+ and 40 n
 - D. 20 p+ and 40 n
78. According to the scientific definition of work, pushing a table accomplishes no work unless there is _____.
 - A. An opposing force
 - B. A net force greater than zero
 - C. An applied force greater than its weight
 - D. Movement in the same direction as the force
79. Which blood type has neither anti-A or anti-B and can receive blood from anyone?
 - A. AB
 - B. A
 - C. B
 - D. O
80. Sun-Moon-Earth alignment produces what kind of eclipse?
 - A. annular
 - B. partial
 - C. solar
 - D. lunar
81. Each cell contains how many chromosomes?
 - A. 40
 - B. 44
 - C. 42
 - D. 46
82. Stored in thylakoids of chloroplast which gives plant leaves their green color.
 - A. xanthophylls

- B. granum
 - C. chlorophyll
 - D. chromatin
83. Which hormones promotes the development of secondary male sexual characteristics?
- A. Progesterone
 - B. Testosterone
 - C. Estrogen
 - D. Gonads
84. Physical traits are transmitted from parents to offspring through
- A. genes
 - B. gametes
 - C. Chromosomes
 - D. alleles
85. Organisms that can manufacture their own food are called _____.
- A. carnivores
 - B. Omnivores
 - C. autotrophs
 - D. heterotroph
86. Which is a characteristic property of acids?
- A. Acids turn blue litmus paper red.
 - B. Acids turn red litmus paper blue.
 - C. Acids taste bitter.
 - D. Acids do not react with metals.
87. Which of the following is the general term referring to the transformation of liquid water to gaseous vapor?
- A. transpiration

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- B. condensation
 - C. exhalation
 - D. evaporation
88. If a plant was able to produce 2000 kcal of energy during photosynthesis, how much energy would a secondary consumer gain after eating the herbivore that fed on the said plant?
- A. 2 kcal
 - B. 20 kcal
 - C. 200 kcal
 - D. 1000 kcal
89. What kind of biome is prevalent in the equatorial zone of the earth, to which our country belongs?
- A. Taiga
 - B. Tundra
 - C. Tropical rainforest
 - D. Fresh water
90. Which is the property of a particular species living in a particular setting together with the role it plays in relation with other species?
- A. Habitat
 - B. Niche
 - C. Population
 - D. Community
91. Which of the following is the unit of structure all living things?
- A. Tissue
 - B. Organ
 - C. Cell
 - D. Muscle
92. Which is the correct sequence of the stages of mitosis?

- A. Telophase, Anaphase, Metaphase, Prophase
 - B. Metaphase, Anaphase, Telophase, Prophase
 - C. Anaphase, Prophase, Metaphase, Telophase
 - D. Prophase, Metaphase, Anaphase, Telophase
93. Which explain the absence of weather on the moon?
- A. Moon rotates on its axis fast.
 - B. Moon revolves very fast.
 - C. Moons gravity is very high.
 - D. Moon has no atmosphere.
94. What gas is released during photosynthesis?
- A. Carbon dioxide
 - B. Oxygen
 - C. Nitrogen
 - D. Hydrogen
95. The hottest planet in the solar system is _____.
- A. Mercury
 - B. Mars
 - C. Venus
 - D. Jupiter
96. Why do leaves with green color look green in the sunlight?
- A. The blue and yellow bounces off from the leaves.
 - B. They absorb the blue and yellow object and yellow light.
 - C. They absorb the green light.
 - D. They reflect green light.
97. What is the main difference between prokaryotes and the eukaryotes?

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- A. The eukaryote has a nucleus, but the prokaryote does not have.
 - B. The prokaryote has a nucleus, but the eukaryote does not have.
 - C. The eukaryote is always larger than the prokaryote.
 - D. The eukaryote is the only type of cell than is capable of photosynthesis.
98. Crocodiles and alligators belong to what chordate class?
- A. Aves
 - B. Reptilia
 - C. Mammalia
 - D. Amphibia
99. What does a pH below 7 indicate?
- A. Presence of ions
 - B. Alkalinity
 - C. Purity of the sample
 - D. Acidity
100. What phylum do YOU belong?
- A. Arthropoda
 - B. Annelida
 - C. Mollusca
 - D. Chordata
101. It is an order of the court directing an authority to arrest a subject person particularly described?
- A. Search warrant
 - B. search
 - C. warrant of arrest
 - D. search and seizure
102. It is a method of acquiring citizenship through place of birth?

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- A. Jus Sanguinis
- B. Naturalization
- C. Jus Soli or Loci
- D. Marriage

103. What year that the University of the Philippines celebrated its centennial existence?

- A. 2006
- B. 2008
- C. 2007
- D. 2009

104. If the President will not sign the bill into Law, he she is exercising what power?

- A. Suffrage
- B. Executive Order
- C. Veto
- D. Presidential Decree

105. It is also known as Comprehensive Agrarian Reform Law of 1988.

- A. R.A. 8551
- B. R.A. 6975
- C. R.A. 6657
- D. R.A. 9708

106. Supply: Producer as Demand: _____.

- A. Sellers
- B. Buyers
- C. Goods
- D. Services

107. The following penalties of crimes are bailable, EXCEPT:

- A. Arresto Mayor
 - B. **Reclusion perpetua**
 - C. Correctional penalties
 - D. arresto menor
108. The following are modes of acquiring citizenship, EXCEPT:
- A. Marriage
 - B. Jus Sanguines
 - C. Naturalization
 - D. **Change of Residence**
109. They are vested with the power to administer the laws.
- A. Judicial Department
 - B. Legislative Department
 - C. **Executive Department**
 - D. Department of Justice
110. The President who signed into law the absentee Voting Act.
- A. President Ramos
 - B. President Estrada
 - C. **President Arroyo**
 - D. President Aquino
111. The name given by Legazpi to Manila and made himself Governor General.
- A. Distinguished City
 - B. The Loyal City
 - C. Distinguished and Great City
 - D. **Distinguished and Ever Loyal City**

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112. A former administrative region in the Philippines which comprised two provinces. It existed from May 29, 2015 to August 9, 2017 and was then the 18th region of the Philippines.

- A. Cordillera Administrative Region
- B. Autonomous Region of Muslim Mindanao
- C. Negros Island Region
- D. CARAGA Region

113. When the Filipino reformists asked for the assimilation of the Philippines by Spain, what did they ask for? For the Philippines to ____

- A. Become independent from Spain
- B. Become a province of Spain
- C. Be independent from Spain with certain conditions
- D. Be represented in the Spanish Cortes

114. Who among the Presidents changed the date of our celebration of Independence day from July 4 to June 12?

- A. Ramon Magsaysay
- B. Diosdado Macapagal
- C. Carlos Garcia
- D. Ferdinand Marcos

115. Who was the last prime minister who served during the administration of President Cory Aquino from February 25, 1986 to March 25, 1986?

- A. Ferdinand Marcos
- B. Cesar Virata
- C. Salvador Laurel
- D. Pedro Paterno

116. The name given to Cebu as the first Spanish settlement by Legaspi.

- A. Ciudad del Santissimo Nombre de Jesus
- B. La Villa de San Miguel

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- C. La Villa de Cebu
D. Ciudad del Sto Niño de Cebu
117. It is also known as the Local Government Code of 1991.
- A. R.A. 8491
B. R.A. 10533
C. R.A. 7160
D. R.A. 1
118. One can enjoy the “Presumption of innocence”. When a suspect _____.
A. has the right to remain silent.
B. remains innocent until proven guilty.
C. is considered guilty unless proven otherwise
D. has the right to legal counsel
119. The current Senate President of the Philippines.
- A. Aquilino Pimentel III**
B. Bam Aquino
C. Francisco Escudero
D. Francis Pangilinan
120. The current meeting of the national legislature of the Republic of the Philippines, composed of the Senate and House of Representatives which was officially opened by President Rodrigo Duterte.
- A. 15th Congress
B. 16th Congress
C. 17th Congress
D. 18th Congress
121. President Rodrigo Duterte recently signed this law which provides for free college education which also known as the Universal Access to Quality Tertiary Education Act.

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- A. RA 10931
- B. RA 10913
- C. RA 10909
- D. RA 10911

122. Benigno Simeon "Ninoy" Aquino Jr. was assassinated here in 1983 upon returning from his self-imposed exile. His death catapulted his widow, Corazon, into the political limelight, and prompted her to run for president.

- A. Manila International Airport
- B. Ninoy Aquino International Airport
- C. Diosdado Macapagal International Airport
- D. Clark International Airport

123. Pres. Ramon Magsaysay died in a plane crush on March 17, 1957. What is the name of the C-47 presidential plane which was heading back to Manila that time?

- A. Mt. Pinatubo
- B. Pangulo
- C. Masa
- D. Pinoy

124. The following are our constitutional rights EXCEPT to

- A. Free access to legal assistance which shall not be denied due to poverty
- B. Have access to all records of the government
- C. Be presumed innocent until proven guilty
- D. Form association and labor unions

125. As an effect of our geography, in which of the following island/s do people travel mostly by water?

- A. Luzon
- B. Mindanao
- C. Visayas

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- D. Visayas and Mindanao
126. Which of the following is not a benefit of technology in education?
- A. Improves critical-thinking abilities.
 - B. Unlimited access to games and other internet sites.
 - C. Allows cooperative learning.
 - D. Increases self-expression.
127. He is considered as the “Father of Modern Media in Education”.
- A. Jean Piaget
 - B. Robert Gagne
 - C. B.F. Skinner
 - D. Edgar Dale
128. It is a term to denote a whole range of technologies associated with processing information and with sending and receiving messages.
- A. Educational Technology
 - B. Information and Communication Technology
 - C. Media Technology
 - D. Instructional Systems Design
129. This is considered to be the first manual data processing device developed in China in the 12th century A.D.
- A. Hieroglyphics
 - B. Papyrus
 - C. Printing Press
 - D. Abacus
130. He is considered to be the “Father of Computing” because of his contributions to the basic design of computer.
- A. John Napier
 - B. William Oughtred
 - C. Blaise Pascal

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D. Charles Babbage

131. Which is the standard input device that accepts letters, numbers and commands from the user?

- A. Trackpad
- B. Lightpen
- C. Mouse
- D. Keyboard

132. Mr. Rico carefully studies the materials he acquired from the internet. He always examines if the author is qualified to present the material. This practice is?

- A. necessary to ensure that the materials are reliable.
- B. unethical because he does not trust the author.
- C. unnecessary because all resources from the internet are dependable.
- D. just a waste of time.

133. Which of the following is not a feature of word processing software?

- A. spelling checker
- B. formatting
- C. cell address
- D. find and replace

134. Ctrl + A is the keyboard shortcut for _____.

- A. close the program
- B. save
- C. select all
- D. print preview

135. _____ is the electronic equivalent of a user manual.

- A. Web-based training
- B. e-learning

C. Online Help

D. Distance learning

136. The Commander-in-Chief of all armed forces of the Philippines this 2017 is _____.

A. Air Force Commanding General Jeffrey Delgado

B. Rodrigo Roa Duterte

C. Chief Justice Maria Lourdes Sereno

D. AFP Chief Lieutenant Gen. Emmanuel Bautista

137. What are the 3 main branches of the Government of the Philippines?

A. Senate, Supreme Court, Congress

B. Presidential, Unicameral- Parliamentary, Bicameral-Parliamentary

C. Legislative, Executive, Judicial

D. The Legislature, The Senate, The Supreme Court

138. The Supreme Court shall be composed of a Chief Justice and how many Associates Justices?

A. 12

B. 13

C. 14

D. 15

139. The Senate shall be composed of how many senators elected at large by voters of the Philippines?

A. 21

B. 22

C. 23

D. 24

140. The term of office of the President and Vice-president of the Philippines shall be up to how many years?

A. 3 years

B. 4 years

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- C. 5 years
- D. 6 years**

141. The members of the House of Representatives shall be elected for a term of _____.

- A. 3 years**
- B. 4 years
- C. 5 years
- D. 6 years

142. R.A. 6713 is an act to uphold the time-honored principle of public office being a public trust, granting incentives and rewards for exemplary service, enumerating prohibited acts and providing penalties for violations thereof and for other purposes.

- A. Preamble
- B. Code of Ethics
- C. Code of Government Officials
- D. Code of Conduct and Ethical Standards for Public Officials and Employees**

143. Association of Southeast Asian Nations (ASEAN) aims to accelerate economic growth, stability, social progress and cultural development in the spirit of equality and partnership to strengthen prosperous and peaceful community along Southeast Asian Nations. Which of the following countries is not a member of ASEAN?

- A. Hong Kong**
- B. Philippines
- C. Singapore
- D. Thailand

144. It is a project of DOST for more accurate, integrated and responsive disaster prevention and mitigation system especially in high-risk calamity areas of the Philippines.

- A. PAGASA
- B. I am Ready
- C. DOST-Advanced Disaster Program**

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D. Project NOAH

145. PAGASA is the official government agency for weather forecasting, flood control, astronomical observations, and time service.

PAGASA stands for _____?

- A. Philippine Atmospheric Geographical and Astronomical Services Administration
- B. **Philippine Atmospheric Geophysical and Astronomical Services Administration**
- C. Philippine Atmospheric Geological and Astronomical Services Association
- D. Philippine Atmospheric Geophysical and Astronomical Services Association

146. It is a process by which thermal radiation from the earth's surface is absorbed by atmospheric greenhouse gases and is re-radiated in all directions.

- A. Global Warming
- B. **Greenhouse Effect**
- C. Ozone Layer
- D. Solar Radiation

147. USB is an industry standard that connects computers and electronic devices like keyboards, digicams, portable media devices, disk drivers, smartphones, and network adapters to any computer. USB stands for?

- A. Unit Serial Box
- B. Unit Serial Bolt
- C. Universal Serial Bin
- D. **Universal Serial Bus**

148. The law creating the DICT otherwise known as "An Act Creating the Department of Information and Communications Technology (DICT)" which was signed on May 20, 2016 during the administration of President Benigno Aquino III. The law took effect in June 9, 2016 which marked the establishment of the newest department in the government.

- A. RA 10844
- B. RA 7722
- C. RA 10157

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D. RA 1425

149. It is a Philippine microsatellite launched to the International Space Station (ISS) in March 23, 2016, and was deployed into orbit from the ISS in April 27, 2016. It is the first Philippine microsatellite and the first satellite built and designed by Filipinos.

- A. Bayani I
- B. **Diwata I**
- C. Pinoy I
- D. Makisig I

150. The current Chair of the Commission on Higher Education.

- A. Prof. Prospero E. de Vera II
- B. Dr. Leonor Magtolis-Briones
- C. Bro. Armin Luistro
- D. Dr. Mona Valisno

PART II (*150 questions*)

1. The committee members have gone off, leaving everything at sixes and sevens among themselves.
 - A. anxious
 - B. gloomy
 - C. disorganized
 - D. unproductive
2. An association wherein the name of something is substituted by something that represents it.
 - A. personification
 - B. comparison
 - C. metonymy
 - D. Euphemism
3. The total of traditional-derived and orally transmitted literature, material culture and custom within predominantly literate and technological advanced societies is referred to as:
 - A. Folk song
 - B. Folk tale
 - C. Folklore
 - D. Folk Literature
4. These stories which reflect the people's beliefs are handed down from generation to generation by word of mouth:
 - A. Poetry
 - B. Prose
 - C. Novels
 - D. Folktale

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5. Considered as one of the world's greatest short stories and it is Edgar Allan Poe's story of terror about a hypochondriac living in morbid fear.
 - A. Annabel Lee
 - B. The Fall of the House of Usher
 - C. Macbeth
 - D. The Raven
6. He was the American President who said "Ask not what America will do for you, but what together we can do for freedom of man."
 - A. Gerald Ford
 - B. Franklin Roosevelt
 - C. Henry Truman
 - D. John F. Kennedy
7. A narrative technique in non-dramatic fiction intended to render the flow of visual, auditory, physical and associative impressions of the character in a story.
 - A. Flashback
 - B. Stream-of-consciousness
 - C. Dream sequence
 - D. Narration
8. Senators were accused by activists of washing their hands with the perfumes of Arabia. This is state commonly known as
 - A. Triumph
 - B. Guilt
 - C. Aggression
 - D. Indecision
9. The bakeshop controlled its ____ the percentage of yeast rice is big.
 - A. Doughnut to make sure
 - B. Through to make

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- C. Though to make sure
 - D. Dough to make sure
10. "The life of clouds is parting and a meeting. A tear and a smile". The author says
- A. Life is combination of tears and laughter
 - B. Life is not all sunshine
 - C. Life is an ocean of love
 - D. Life is difficult
11. Reports of the death sentence were awaited by the parents. But the President decides the postponement for a month or in legal terms this means
- A. Reprieve
 - B. Pardon
 - C. Execution
 - D. Commutation
12. Our heroes like Rizal and Bonifacio are worth_____.
- A. Emulating
 - B. Enthralling
 - C. Enervating
 - D. Emanating
13. My uncle flew in from Los Angeles. How about you? How did you come here?
- A. yes, to meet uncle, too
 - B. By taxi
 - C. Yes, he did
 - D. Yesterday yet
14. The patient after the surgery hung in the balance for 72 hours.
- A. The patient could not balance himself

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- B. The patient recovered fast
 - C. The patient's life was undertrained
 - D. **The patient was unsure of his recovery**
15. Which utterances show dejection
- A. I can't believe it...
 - B. It's too bad that...
 - C. I'm sorry to hear that...
 - D. **I didn't have a chance...**
16. What figure of speech is used in the following passage? "The truth occurred to me that Mother Nature fulfills her duty more faithfully than man does his own."
- A. **Personification**
 - B. Simile
 - C. Allegory
 - D. Metaphor
17. Before sleeping time, children are discouraged to watch _____ shows that cause nightmares
- A. Special
 - B. **Spectral**
 - C. Spectacular
 - D. Spiteful
18. Most natural calamities happen in July and August. Students are dismissed early _____.
- A. To avoid missing the bus
 - B. To avoid getting wed
 - C. To avoid traffic jams
 - D. **To avoid the flash floods**
19. The hostage victims were heard asking the rescuers to hold on the fort. What was the message?

- A. Disregard the peace negotiation
 - B. Rescue them past and early
 - C. Surrender in arms
 - D. Keep on with the fight
20. The report from congress registered rejection on the proposed bill. This means _____.
- A. Some changed parties
 - B. Some proved their lack of cooperation
 - C. Some favored the leadership
 - D. The majority failed to get the group support
21. Which of the following lines is a simile?
- A. "Holding wonder like a cup"
 - B. "Life has loneliness to sell"
 - C. "Eyes that love you, arms that hold"
 - D. "Buy it, and never count the cost"
22. At the Philippine General Hospital, doctors reported on the abandoned patients. This means:
- A. The patients do not have permanent address
 - B. The patients cannot afford to pay their bill
 - C. The patients are left by doctors
 - D. The patients are left behind by relatives
23. As head of the family the father is the principal breadwinner. What does it mean?
- A. His earning determines the economic condition of the family
 - B. It is duty to give economic support to his children
 - C. He is responsible to support the wife and children
 - D. He should manage the family budget.
24. A father refused revenge when he uttered:

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- A. "That's murder."
 - B. "Justice is always delayed."
 - C. "An eye for an eye."
 - D. "Don't take the law into your hands."
25. Your father isn't working anymore, _____?
- A. is he
 - B. has he
 - C. isn't he
 - D. hasn't he
26. When a leader is succeeded by another leader, the former is referred to as the _____ president.
- A. deposed
 - B. dethroned
 - C. replaced
 - D. elected
27. Loss of qualified teachers going abroad is one type of _____
- A. migration
 - B. brain drain
 - C. employment
 - D. unemployment
28. Workers in the service sector should trained to act as _____ as possible.
- A. Courteously
 - B. Covertly
 - C. Curtly
 - D. Rudely
29. Why is the Filipino trait of "pakikisama" said to be ambivalent?

- A. It makes people show their concern for others
 - B. It can be used for or against the person who values it
 - C. It encourages a person to do wrong
 - D. It helps person develop good values
30. In Psalm 23 otherwise known as "Psalm of David" what is the closest meaning to the line: "He maketh me to lie down in green pastures: he leadeth me beside the still water."
- A. He will always obey his master for his glory
 - B. He will be provided peace and prosperity
 - C. He will be given riches and mercy
 - D. He will be known throughout the land.
31. Two angles are supplementary. One of the angles is five times larger than the other. What is the measure of the larger number?
- A. 15°
 - B. 30°
 - C. 120°
 - D. 150°
32. At the beginning of the month, the school tank was $\frac{8}{9}$ full. After 1 week, it was $\frac{2}{9}$ full. If the tank's capacity is 27 cubic meters, how much water was used in 1 week?
- A. 24 cu. m
 - B. 22 cu. m
 - C. 20 cu. m
 - D. 18 cu. M
33. In how many ways can the first, second, and third places be chosen from a group of 10 contestants?
- A. 6
 - B. 72
 - C. 720

- D. 120
34. If a function is defined by the set of ordered pairs (1,2), (2,4),(3,8),(4,16),(5,Y) then the value of Y is _____.
A. 10
B. 32
C. 20
D. 25
35. If the scores in Mathematics test of 45 students are arranged from the highest to the lowest, the 23rd score is the
A. Mean
B. Variance
C. Median
D. Mode
36. The ratio of men to women at High School is 3:7. If there are 6,153 women in the said school, how many men are at Mabuhay High School?
A. 2,051
B. 2,637
C. 879
D. 1,895
37. If each of the five members in a basketball team shakes hands with every other member of the team before the game starts, how many handshake will there be in all?
A. 6
B. 8
C. 10
D. 9
38. The angles of a triangle are in the ratio 2: 3: 5. What is the largest angle?
A. 36°

- B. 54°
 - C. 90°
 - D. 99°
39. How much larger than 20% of 950 is 40% of 600?
- A. 50
 - B. 54
 - C. 60
 - D. 68
40. If 40% of the 1,000 freshmen are girls, then the number of boys is _____?
- A. 50% greater than the girls
 - B. 150% greater than the girls
 - C. Not ascertained from the given
 - D. 60% greater than the girls
41. Lucille is 4 times as old as Nicole. Six years from now, she will be twice as old as Nicole. How old are they now?
- A. Lucille 12; Nicole 3
 - B. Lucille 3; Nicole 12
 - C. Lucille 16; Nicole 4
 - D. Lucille 4; Nicole 16
42. A certain number doubled and increased by 10 is 14. What is the number?
- A. 5
 - B. 4
 - C. 2
 - D. 3
43. A square box has a perimeter of 88 cm. What is measurement of one side of the box?
- A. 88 cm

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- B. 22 cm
- C. 60 cm
- D. 44 cm
44. The price of gasoline has gone high suddenly. The gas station ordered 120,000 liters before the price increase. However, only 1,500 liters were sold. How many liters are now sold on the new price?
- A. 11,500
- B. 118,500
- C. 108,500
- D. 112,000
45. In a series of card games, Dan starts out with P100 and wins a total of P400. If he later loses P300, wins P50 and loses P250, how much cash does Dan have?
- A. 0
- B. P50
- C. P100
- D. P150
46. What is the range of the following: 86, 70, 83, 90, 78, 79, 81, 87.
- A. 12
- B. 15
- C. 16
- D. 20
47. Jeepney fares are computed as follows: P5.50 for the four kilometers plus P0.50 for every additional kilometer thereof. How much should Isagani pay for a ride that covers 11 kilometers?
- A. P8.00
- B. P9.00
- C. P9.50

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- D. P10.00
48. Dan buys a refrigerator for P7920. She pays 1/3 of the price in cash and the balance in 12 equal monthly installments. How much will he pay each month?
- A. P300
 - B. P350
 - C. P400
 - D. P440
49. A kilogram of dried squid costs P240. Jigs wants to buy 400 grams only. How much will it cost?
- A. P96
 - B. P105
 - C. P120
 - D. P130
50. Three-fourth of what number is 12?
- A. 30
 - B. 12
 - C. 24
 - D. 16
51. The human adult skeletal system is composed of around _____ bones.
- A. 206
 - B. 280
 - C. 350
 - D. 260
52. Sea stars, sand dollars and sea urchins are _____.
- A. poriferans
 - B. echinoderms

- C. cnidarians
 - D. mollusks
53. Meteoroid that actually reaches Earth's surface is called _____.
- A. meteorite
 - B. coma
 - C. meteor
 - D. meta
54. It refers to the group of stars that form a pattern in the sky.
- A. astropattern
 - B. constellation
 - C. stellarium
 - D. starrium
55. What is the correct order of colors in a visible light passing through a prism?
- A. RYOGBIV
 - B. ROYBGVI
 - C. ROYBGIV
 - D. ROYGBIV
56. When the stems of vines grow around poles of fences, what kind of response is exhibited?
- A. Geotropism
 - B. Thigmotropism
 - C. Hydrotropism
 - D. Phototropism
57. Who is the Father of Genetics?
- A. Mendel
 - B. Linnaeus

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- C. Aristotle
 - D. Darwin
58. Which phenomenon of global warming in the Pacific Ocean will also likely increase in frequency and severity as long-term global warming continues?
- A. El Nino
 - B. La Nina
 - C. Trade winds
 - D. None of these
59. Which connective tissue make up the tip of our nose and external ear?
- A. Tendon
 - B. Ligament
 - C. Cartilage
 - D. Tough cords
60. In which kingdom should MOLD be classified
- A. Bacteria
 - B. Plantae
 - C. Fungi
 - D. Animalia
61. Which of the following factors contribute to an increase in human population?
- | | |
|----------------|----------------|
| I. Immigration | II. Emigration |
| III. Natality | IV. Mortality |
- A. III and IV
 - B. II and III
 - C. I only
 - D. I and III

62. Which does NOT belong to the group?
- A. tendon
 - B. bone
 - C. skin
 - D. cartilage
63. The nucleus is the storehouse for most of the genetic information or DNA. What do you mean by DNA?
- A. deoxyribonucleic acid
 - B. densed natural amino
 - C. deoxygenated acid
 - D. double natural amine
64. In many cells, the organelle that controls the cell's activities is _____.
- A. nucleus
 - B. nuclear pore
 - C. nuclear envelop
 - D. nucleolus
65. The maintenance of a controlled internal environment.
- A. envirolysis
 - B. plastolysis
 - C. cytokinesis
 - D. homeostasis
66. Diffusion of water through a selectively permeable membrane.
- A. osmosis
 - B. active transport
 - C. exocytosis
 - D. phagocytosis

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67. He coined the term 'cell' which he likened to the compartments in the monastery being used by the monks.
- A. Felix Dujardin
 - B. Theodor Schwann
 - C. Robert Hooke
 - D. Anton van Leeuwenhoek
68. The scientific name of modern human.
- A. Homo erectus
 - B. *Homo sapiens sapiens*
 - C. Homo neanthertalis
 - D. Homo habilis
69. The first men who stepped on the moon are _____.
- A. Neil Armstrong and Yuri Gagarin
 - B. Neil Armstrong and Edwin Aldrin Jr.
 - C. Yuri Gagarin and Edwin Aldrin Jr.
 - D. Neil Armstrong and Joseph Clark
70. It is a molten rock which forms deep within the Earth. As it cools, elements combine to form minerals.
- A. lava
 - B. magma
 - C. caldera
 - D. vulcan
71. The turning, or spinning, of the Earth on its axis is known as _____.
- A. turnation
 - B. precession
 - C. revolution
 - D. rotation

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72. Earth is tilted _____.

- A. $23\frac{3}{4}^{\circ}$
- B. $23\frac{1}{2}^{\circ}$
- C. $23\frac{1}{4}^{\circ}$
- D. 23°

73. The science that deals with the study of the atmosphere is called _____.

- A. astronomy
- B. meteorology
- C. geology
- D. oceanography

74. What is the percentage of world's water?

- A. 71%
- B. 75%
- C. 80%
- D. 97%

75. The outermost layer of Earth which is solid and relatively thin, and it lies below both landmasses and oceans.

- A. crust
- B. mantle
- C. lithosphere
- D. asthenosphere

76. Which of the following is an organic compound?

- A. Baking soda
- B. Glucose
- C. Limestone
- D. Sulfuric Acid

77. The shape of the Earth is described as _____.
- A. oblate spheroid
 - B. spherical oblong
 - C. oblongated round
 - D. round spheroid
78. What is the standard time zone of the Philippines?
- A. GMT +2
 - B. GMT +5
 - C. **GMT +8**
 - D. GMT +12
79. Which is the emergency hormone?
- A. LSH
 - B. Epinephrine
 - C. Oxytocin
 - D. **Adrenalin**
80. Water (H_2O) is considered as an excellent solvent. What is its chemical name?
- A. dihydrogen oxide
 - B. **dihydrogen monoxide**
 - C. hydrogen monoxide
 - D. hydrogen oxide
81. The school will hold a science fair. You tried to make a project but failed. The next thing you do is
- A. To ask your father to do it you
 - B. Not to submit a project anymore
 - C. **To try and try until you produce one**
 - D. To tell your teacher that you can't make one

82. A person who specialized in the study of atmospheric conditions is called a
- A. Geologist
 - B. Scientist
 - C. Meteorologist
 - D. Weather forecaster
83. You have identified the problem in your experiment. What is the next step?
- A. Formulate the hypothesis
 - B. Formulate the conclusion
 - C. Gather relevant data
 - D. Test the hypothesis
84. When the moon is passing the point of its orbit directly between the earth and the sun and it cannot be seen, this phase of the moon is
- A. Full moon
 - B. Crescent
 - C. Gibbous
 - D. New moon
85. The history of the earth has been divided by scientist into eras. Which of the following shows the arrangement of these eras into the proper sequence from the oldest to the most recent?
- A. Precambrian , Mesozoic, Cenozoic, Paleozoic
 - B. Paleozoic, Cenozoic, Precambrian , Mesozoic
 - C. Cenozoic, Mesozoic, Paleozoic, Precambrian
 - D. Precambrian, Paleozoic, Mesozoic, Cenozoic
86. The highest taxon in the classification system is _____.
- A. domain
 - B. phylum
 - C. kingdom

- D. class
87. Also called the 'little brain,' it coordinates voluntary movements by fine-tuning commands from the motor cortex. It also maintains posture and balance by controlling muscle tone and sensing the position of the limbs. All motor activity, from hitting a baseball to fingering a violin, depends on this.
- A. cerebellum
 - B. pons
 - C. cerebrum
 - D. medulla oblongata
88. The hollow chamber in which the voice is produced, at the front or upper part of the windpipe of humans.
- A. pharynx
 - B. larynx
 - C. trachea
 - D. alveoli
89. Human body's longest bone is the _____.
- A. tibia
 - B. humerus
 - C. fibula
 - D. femur
90. Banana and tomato produce phytohormones which stimulate the ripening of its fruits and stimulates cellulose production. These hormones are _____.
- A. auxin
 - B. ethylene
 - C. gibberellin
 - D. abscisic acid
91. Human beings can be categorized as _____.

- A. autotrophs
 - B. carnivores
 - C. omnivores
 - D. herbivores
92. _____ : Photosynthesis :: _____ : Cellular respiration.
- A. chloroplast : mitochondrion
 - B. ribosome : mitochondrion
 - C. mitochondrion : chloroplast
 - D. chloroplast : ribosome
93. Malaria is a disease caused by parasitic sporozoans. What genus of sporozoans causes the disease?
- A. Amoeba
 - B. Giardia
 - C. Plasmodium
 - D. Trypanosome
94. Building block of protein.
- A. Fatty acid
 - B. Nucleotide
 - C. Amino acid
 - D. Glucose
95. How many protons are present of an atom has a mass number of 23 and atomic number of 11?
- A. 11
 - B. 23
 - C. 12
 - D. 44
96. Sabihin ang gawang pagsasalitang ito. "Iwasan ang imburnal, may nagtatrabaho."

- A. Pagtukoy
 - B. Pagkukuwento
 - C. Babala
 - D. Pasasalamat
97. Ikinatalungkot ko ang mga nangyari.
- A. Paghula
 - B. Paghingi ng paumanhin
 - C. Pasagot
 - D. Pagtatanong
98. The founder and first editor of La Solaridad in Barcelona, Spain and was considered the greatest orator of the Filipino colony in Spain?
- A. Mariano Ponce
 - B. Graciano Lopez Jaena
 - C. Marcelo H. Del Pilar
 - D. Gregorio H. Del Pilar
99. The Katipunan in Cavite was divided into factions- the Magdiwang and the Magdalo. While the Magdiwang in Cavite was led by Mariano Alvarez, who led the Magdalo faction?
- A. Ciriaco Bonifacio
 - B. Daniel Tirona
 - C. Baldomero Aguinaldo
 - D. Artemio Ricarte
- 100.. The Benevolent Assimilation proclamation on December 21, 1879 was the first official indication of American policy regarding the Philippines; it expressly indicated the intention of the United States to stay in the Philippines by exercising the right of sovereignty over the Filipinos. Who was the American President who issued this “Benevolent Assimilation” policy?
- A. Wilson
 - B. Eisenhower

- C. Roosevelt
- D. McKinley

101. The primary source of the objectives of education in the Philippines at present is the _____.

- A. Report of the Monroe Commission
- B. Philippine Constitution
- C. Tydings McDuffie Act
- D. The Swanson Report

102. After the revolution, Macario Sacay went underground and established a republic based on the ideology of the Bonifacio-Jacinto Katipunan. What do you call the republic established by Macario Sacay at his headquarters on top of Mount San Cristobal?

- A. Republikang mga Pilipino
- B. Republika ng San Cristobal
- C. Republika ng Katagalugan
- D. Republika ng Katipunan

103. The Filipino wants to be accepted by his fellowmen for what he is and to be treated according to his status. He can achieve this by ____.

- A. Offering his services in whatever form that suits him
- B. Participating in group activities that interest him
- C. Being obedient to all demands that come his way
- D. Socializing with his fellowmen within the norms of society

104. Maternity leaves are extended to women. What legal provision extends this?

- A. Article XIV Education
- B. Article XII Bill of Rights
- C. Article XIII Sec. 14 women
- D. Article XIII Role and Rights of People's Organization

105. According to Confucius, what is the best way to rule a people and attain harmony?

- A. By allowing to do as they please

- B. By moral example
 - C. By consulting the governed
 - D. By force
106. Ang sabi ni Romulo sa isa niyang akda, ang Pilipino ay dugong maharlika. Ano ang kahulugan nito?
- A. Ang Pilipino ay sadyang matatag ang budhi
 - B. Ang Pilipino ay nanggaling sa malayang lahi
 - C. Ang Pilipino ay madaling maipagbibili at mabola
 - D. Ang Pilipino ay di purong Pilipino
107. Di kataka-taka na ilang pulis ay hinihinalang kasangkot sa paglaganap ng krimen. Ano ang kahulugan ng kasangkot?
- A. Kabalikat
 - B. Kabilang
 - C. Kasabwat
 - D. Kasama-sama
108. Piliin ang gawi ng pagsasalita: Ayokong sumunod sa mga sinasabi mo.
- A. Babala
 - B. Pagtaggi
 - C. Pakiusap
 - D. Pamungkahi
109. Ipinagmamalaki mo siya, BAHAG naman pala ANG kanyang BUNTOT. Ano ang ibig sabihin ng nasa malaking titik?
- A. mahiyain
 - B. traydor
 - C. kuripot
 - D. duwag
110. Piliin ang gawi ng pagsasalita: Kasiyahan ko nang makitang kayo'y nagmamahalan.
- A. Pangarap

- B. Pagkontrol ng kilos
 - C. Pagkuha ng impormasyon
 - D. Pagbabahagi ng damdamin
111. Ang kaugnayan ng pagkakapatay kina Burgos, Gomez at Zamora sa panitikang Pilino ay _____.
- A. Nanatiling masigla ang diwang Pilipino.
 - B. Nakagising sa damdaming makabayan ng mga Pilipino
 - C. Natutong lumabag sa batas at lumaban sa may kapangyarihan ang mga Pilipino.
 - D. Naimpluwensyahan ang diwang alipin ng mga Pilipino.
112. Ako'y nangangakong matatapos sa isang karera. Siya'y kasama sa _____.
- A. isang rally sa EDSA
 - B. ospital sa panganganak ng asawa
 - C. gustong magsuot ng toga isang araw
 - D. siya'y hawak ang malamig na bakal
113. Di hamak na mainam tumira sa probinsya kaysa Manila. Anong uri ng pang-uri ang ginamit?
- A. Pahambing
 - B. Pasukdol
 - C. Positibo
 - D. Lantay
114. Ang raw at daw ay tinatawag ay _____.
- A. Ingklitik
 - B. Paksa
 - C. Pananda
 - D. Klaster
115. _____ siya ay dumating, dumagsa ang tao.
- A. Ng

- B. Nang
- C. At
- D. Ang

116. _____ siya'y narito, tayo'y magiging magulo.

- A. Kong
- B. Kung
- C. Nang
- D. Ng

117. Himala _____ ang kailangan niya.

- A. Din
- B. Rin
- C. Ng
- D. Nang

118. Alin sa mga sumusunod na salita ang klaster?

- A. Kabataan
- B. Pag-asaya
- C. Komonwelt
- D. Pagsusulit

119. Ang mga sumusunod ay mga salitang diptonggo LIBAN sa isa:

- A. Aywan
- B. Baytang
- C. Alay
- D. Kliyente

120. Anong bahagi ng pananalita ang nasa malaking titik? Malungkot ANG MGA natapos na wala pang trabaho.

- A. Pangatnig

- B. Pang-ukol
- C. Parirala
- D. Pananda

121. Anong ayos ng pangungusap ang sumusunod?

Ang mga bata ay naglalaro sa lansangan.

- A. Karaniwan
- B. Tuwirang layon
- C. Literal
- D. Di-karaniwan

122. Anong mga estratehiya ang gagamitin mo kung nais mong malinang ang mga talinong pangkatawan, kahusayan sa pagkontrol ng katawan, timing, trained responses?

- A. Pagninilay, feeling-toned moments, goal setting
- B. Pasunod sa ritmo, pag-awit, pagra-rap at chants
- C. Teatrong pangklasrum, charades, katawang mapa
- D. Brainstorming, pagsulat ng journal, pagsasadula

123. Ano ang gamit ng mga ito: sapot-semantik, klaster-konsepto, sapot-gagamba, dayagram, hirarkiyal at iba pa?

- A. Matukoy ang mahalagang detalye
- B. Makagawa ng balangkas
- C. Mapag-ugnay o makategorya ang mga konsepto
- D. Mapagsunod-sunod ang mga pangyayari

124. With the Batasang Pembansa performing legislative and executive powers in the Marcos regime, which form of government was implemented?

- A. Dictatorial
- B. Monarchial
- C. Parliamentary

D. Presidential

125. Alin sa mga sumusunod na salita ang bumubuo ng pangungusap?
- A. Dapat isang mapasa ang LET bago maging guro.
 - B. Dapat ang guro LET ang pinasa
 - C. Makapasa dapat ang guro sa LET upang maging ganap na guro
 - D. LET lang gamitin sa pagiging guro.
126. "Ang laki sa layaw, karaniwang hubad" Ayon kay Balagtas kaya ____.
- A. Ang mga bata makapagtapos sa pag-aaral
 - B. Ang mga bata di sumusunod sa magulang
 - C. Ang mga bata ay laging magalang
 - D. Ang babae ay nag-aartista
127. Dahil sa kanyang Urbana at Feliza, tinagurian siyang "Ama ng Tuluyang Klasika sa Tagalog."
- A. Padre Modesto de Castro
 - B. Padre Blancas de San Jose
 - C. Padre Jose Burgos
 - D. Padre Jacinto Zamora
128. Kinilalang "Utak ng Katipunan" dahilan na rin sa kanyang katalinuhan. Sumulat ng Kartilya ng Katipunan.
- A. Emilio Jacinto
 - B. Jose Rizal
 - C. Apolinario Mabini
 - D. Lope K. Santos
129. Kilala sa sagisag na Huseng Sisiw. Siya ang kauna-unahang mag-aayos ng tula.
- A. Jose de la Cruz
 - B. Francisco Baltazar
 - C. Herminigildo Flores

D. Pedro Serrano Laktaw

130. A family built house in an inner piece of land. He was not allowed to go through a neighbor's yard. He was accused of trespassing private property. The law allows such passage under the ____.

- A. Right of eminent domain
- B. Right of homeowners
- C. Right of travel
- D. Right of way

131. The government wants a piece of private land for a government project. The owner resisted the government demand. How many the government own the land?

- A. Right of eminent domain
- B. Right of government ownership
- C. Right of habeas corpus
- D. Right of a sovereign over the governed

132. The executive power shall be vested in the _____.

- A. President of the Philippines
- B. House of Representatives
- C. The Supreme Court
- D. The Congress

133. The legislative power shall be vested in the _____ which shall consist of a Senate and a House of Representatives.

- A. Congress of the Philippines
- B. House of Ombudsman
- C. The Supreme Court
- D. Bureau of Internal Revenue

134. The following shall be exempted from taxation except:

- A. Lands and buildings

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- B. Churches and convents
- C. Charitable institutions
- D. Non-profit cemeteries

135. The Congress, by a vote of ____ of both Houses in joint session assembled, voting separately, shall have the sole power to declare a state of war.

- A. Two-thirds
- B. One-half
- C. Three quarters
- D. Minority

136. It states that "no person shall be deprived of life, liberty, or property without due process of law, nor any person be denied the equal protection of the laws."

- A. Article VI
- B. Bill of Rights
- C. Republic Act
- D. Court Order

137. The following are citizens of the Philippines except:

- A. Those fathers or mothers are citizens of the Philippines
- B. Those who are born before January 17, 1973, of Filipino mothers, who elect Philippine citizenship upon reaching the age of majority
- C. Those who are naturalized citizens of the Philippines in accordance with law.
- D. All of the above are true.

138. It is the right and obligation by all citizens, who are at least 18 years of age, and qualified by law, to vote in the election of national and local officials of the government without literacy, property, or other substantive requirement.

- A. Suffrage
- B. Election

- C. Voting power
- D. Civil Right

139. The three inherent powers of the state are the following except one:

- A. Police Power
- B. Power of Eminent Domain
- C. Power of Taxation
- D. Power to Impeach

140. It is the power of the State to impose charge or burden to persons and properties, and property rights for the purpose of raising revenues to protect the people and extend public projects and services.

- A. Police Power
- B. Power of Eminent Domain
- C. Power if Taxation
- D. Power to Impeach

141. The following are duties and responsibilities of Public officials and Employees except:

- A. Act promptly on letters, inquiries, calls or any other form of communications sent by the public.
- B. Submit performance reports of the agency or office regularly
- C. Accept gifts from the public upon prioritizing their queries.
- D. Process documents and papers expeditiously.

142. This law promotes responsible family planning and proper use of reproductive methods to eliminate over-population growth.

- A. RH Bill
- B. Responsible Parenthood and Reproductive Health Law
- C. Reproductive Law
- D. Family Planning

143. The Southeast Asian Games in 2017 was held in _____.

- A. Malaysia

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- B. Indonesia
 - C. Thailand
 - D. Brunei
144. When did President Rodrigo Duterte sign Proclamation No. 216 declaring a 60-day martial law in Mindanao following clashes between government forces and the Maute group in Marawi.
- A. May 23, 2017
 - B. May 24, 2017
 - C. May 25, 2017
 - D. May 26, 2017
145. President Rodrigo Duterte signed Executive Order No. 25 on May 16, 2017, that renamed Benham Rise to _____.
- A. Philippine Rise
 - B. Pacific Sea Rise
 - C. Filipino Rise
 - D. East Philippine Sea
146. The Association of Southeast Asian Nations (ASEAN) celebrates 50th Golden Anniversary Celebration in the _____.
- A. Philippines
 - B. Singapore
 - C. Thailand
 - D. Laos
147. Is an organized crime syndicate in the Philippines that once was an anti-communist vigilante group. They received nationwide attention due to their alleged end in a shootout with the Police in May 1995 in Quezon City.
- A. Akyat Bahay Gang
 - B. Kuratong Baleleng
 - C. Sa Ngalan ng Ama, Ina at mga Anak
 - D. Parojinog Gang

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148. On August 16, 2017, a 17-year-old Grade 11 student was fatally shot by police officers conducting an anti-drug operation in Caloocan, Metro Manila. The case became controversial when the official police reports differed from witness accounts and CCTV footage.

Name the victim.

- A. Lloyd Guevarra
- B. Kian Lloyd Santos
- C. Kian Ramos
- D. Lloyd Rafael

149. It is also known as the Islamic State of Lanao which is a radical Islamist group composed of former Moro Islamic Liberation Front guerrillas and some foreign fighters.

- A. ISIS
- B. Maute Group
- C. NPA
- D. SAF

150. The privilege of _____ is also suspended in an area for the duration of martial law.

- A. Writ of habeas corpus
- B. Writ of amparo
- C. Writ of habeas data
- D. Writ of mandamus

PART III (*45 questions*)

ENGLISH: Analogy.

1. GNASH is related to TEETH as LISTEN is related to _____.

- a. hear
- b. ears
- c. resolve
- d. dissuade

2. BREAD is related to BUTTER as POTATOES is related to _____.

- a. gravy
- b. steak
- c. margarine
- d. lamb

3. PORCINE is related to PIG as BOVINE is related to _____.

- a. boy
- b. cow
- c. sheep
- d. iodine

4. TAILOR is related to NEEDLE as MECHANIC is related to _____.

- a. engineer

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- b. screwdriver
- c. tool chest
- d. brush

5. DISTANCE is related to MILE as LIQUID is related to _____.

- a. milk
- b. quart
- c. water
- d. meter

6. AUTOMOBILE is related to HIGHWAY as LOCOMOTIVE is related to _____.

- a. station
- b. train
- c. track
- d. engine

7. SUGGEST is related to REQUIRED as REQUEST is related to _____.

- a. ask
- b. demand
- c. suspect
- d. allow

8. PROBLEM is related to SOLUTION as POISON is related to _____.

- a. hemlock
- b. nitrate

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- c. arsenic
- d. antidote

9. SAW is related to CUT as YARDSTICK is related to _____.

- a. foot
- b. inch
- c. measure
- d. tool

10. AMBIGUOUS is related to CLARITY as TEMPORARY is related to _____.

- a. transient
- b. permanence
- c. clear
- d. fragile

11. BOOK is related to CHAPTER as SONG is related to _____.

- a. stanza
- b. sing
- c. music
- d. instrument

12. DELICACY is related to GOURMET as INSECT is related to _____.

- a. bee
- b. pollen
- c. frog

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d. hive

13. AGILE is related to NIMBLE as FAST is related to _____.

- a. swift
- b. slow
- c. perpetual
- d. racy

14. CHEMIST is related to LABORATORY as ARTIST is related to _____.

- a. canvas
- b. museum
- c. easel
- d. studio

15. MOVIES is related to PROJECTOR as RECORDS is related to _____.

- a. speakers
- b. tape recorder
- c. phonograph
- d. radio

16. STOOPED is related to POSTURE as SLURRED is related to _____.

- a. diction
- b. stance
- c. music
- d. action

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17. RETRACT is related to STATEMENT as VOID is related to _____.

- a. escape
- b. avoidance
- c. contract
- d. empty

18. FELONY is related to MISDEMEANOR as KILL is related to _____.

- a. maim
- b. bury
- c. murder
- d. guilty

19. BEGGAR is related to POOR as FOX is related to _____.

- a. skunk
- b. slow
- c. large
- d. sly

20. SCALPEL is related to KNIFE as NURSE is related to _____.

- a. doctor
- b. assistant
- c. hospital
- d. operation

Answer Key

1. B – The first word is the action of the second word.
2. A – The second is usually put on the first word.
3. B – The first word means “pertaining to” the second word.
4. B – The second word is a tool of the first word.
5. B – The second word is a measure of the first word.
6. C – The first word travels on the second word.
7. B – The second word is an imperative (“must”) of the first word.
8. D – The second word overcomes the first word.
9. C – The first word is the tool to do the second word.
10. B – The first word is the opposite of the second word.
11. A – The second word is a part of the first word.
12. C – The first word is eaten by the second word.
13. A – The first word is a synonym of the second word.
14. D – The second word is where the first word works.
15. C – The second word plays the first word.
16. A – The first word is a n impairment of the second word.
17. C – The first word nullifies the second word.
18. A – The first word is a more serious degree of the second word.
19. D – The second word is a characteristic of the first word.
20. B – The first word is a medical term for the second word.

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1. Listening is defined as constructing meaning by:
 - I. Predicting
 - II. Making connections
 - III. Focusing
 - IV. Expressing
 - A. I II and III
 - B. II III and IV
 - C. I II and IV
 - D. I III and IV
2. Described open-ended or divergent questions.
 - A. Broad and may have multiple answers.
 - B. Elicit specific information.
 - C. Elicit prior knowledge.
 - D. Asks for one's experience.
3. Idiom is a phrase whose usual meaning do not make sense. Choose the idioms in the following phrase.
 - A. Burn disposal wastes.
 - B. Burn the midnight oil.
 - C. Bark during the night watch.
 - D. Bark when disturbed.
4. Which is an alphabetically arranged list of significant words or terms used in the resource material?
 - A. Appendix
 - B. Preface
 - C. Glossary

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- D. Index
5. A student is searching for the synonyms of a word. Which should she consult?
 - A. Encyclopedia
 - B. Thesaurus
 - C. Dictionary
 - D. Atlas
 6. What reading resource contains information about the theories on the origin of the solar system?
 - A. Atlas
 - B. Year book
 - C. Almanac
 - D. Dictionary
 7. Which graphic organizer will you use to show the similarities and differences between two things by using overlapping shapes?
 - A. Concept map
 - B. Venn diagram
 - C. Fishbone diagram
 - D. Tree diagram
 8. The stranger who climbs the fence is CULPUBLE. This means he is _____.
 - A. Innocent
 - B. Strong

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- C. Guilty
 - D. An intruder
9. To illustrate the four stages of child development according to Piaget, which organizer will you use?
- A. Venn diagram
 - B. Flow chart
 - C. Web
 - D. T-chart
10. Which is the instructional procedure used when teachers gather information about readers' abilities to deal with the content and structure of test read?
- A. Cloze procedure
 - B. Cubing
 - C. K-W-L chart
 - D. Grand convention
11. Children who have been exposed too much to TV usually suffer from short _____.
- A. Attention span
 - B. Concentration
 - C. Understanding
 - D. Memory
12. Life, so they say is just a game
And they let it slip away
Don't let life slip away
Grasp it while you can
We may never pass this way again

What does the stanza suggest?

- A. Opportunity comes once, grab it.
- B. There is a second life anyway.
- C. Life will be gone in a second.
- D. We will all pass away.

13. A low pressure area was sighted 120km from Basco, Batanes. A depression is expected to occur in Region I. this is an example of a reading skill is called _____.

- A. Predicting
- B. Perceiving a relationship
- C. Drawing conclusion
- D. Inferring

14. The word lackadaisical was used to describe the student's indifference. They are called_____.

- A. Antonyms
- B. Explanation
- C. Synonyms
- D. Clues

15. What does the expression "love begets love" mean"?

- A. Loving is a one-way agreement between two persons.
- B. You love others but you may not get love in return.
- C. If you love other people do not expect love always.

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- D. If you exude with love, you will reap love in return.
16. News travels as fast as the wind. This line is a _____.
A. Simile
B. Metaphor
C. Hyperbole
D. Personification
17. To apply for a passport some important papers must be presented. Which of the following statements refers to papers as documentation?
A. They passed the papers after filling the blanks.
B. Jane reads the paper early in the morning.
C. The registrar evaluated the papers I presented.
D. Always put the waste papers in the garbage can.
18. To develop reading skills which instructional materials will you use?
I. Flashcards
II. Puppets
III. Television
IV. Radio
A. I, II and III
B. II, III and IV
C. I, II and IV
D. I, II, III and IV
19. Supporting materials in the form of tabulations, charts and diagrams about the content being presented usually appear in the _____.

- A. glossary
 - B. body
 - C. index
 - D. appendix
20. Formulating a statement based on an observation but will still need further evidences contribute to the development of one's reading skill. Name this skill.
- A. Concluding
 - B. Inferring
 - C. Generalizing
 - D. Analyzing
21. It consists of alphabetically arranged words, together with their meanings, syllabifications and pronunciations and other pertinent information. Identify reference resource.
- A. Encyclopedia
 - B. Dictionary
 - C. Thesaurus
 - D. Yearbook
22. It is a list of titles discussed in the content, arranged alphabetically, together with the page location which helps the readers immensely. It is the _____.
- A. Index
 - B. Appendix
 - C. Table of contents
 - D. glossary
23. Which is very common reading resource used daily with important news, advertisements and editorials?

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- A. Magazine
 - B. Journal
 - C. Newspaper
 - D. Newsletter
24. Deforestation has been blamed by lowland settlers as the main cause of flooding which originate from the nearby hills. Reading skills can be enhanced when a student can perceived a relationship such as _____.
- A. Opinion of town folks
 - B. Actual observation
 - C. Forming an inference
 - D. A cause and effect
25. It may seem FRIVOLOUS to you, but it's important to me. Frivolous means _____.
- A. worthless
 - B. significant
 - C. vital
 - D. practical

Answer Key:

- 1. A
- 2. A
- 3. B
- 4. C
- 5. B
- 6. C

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7. B
8. C
9. B
10. C
11. A
12. A
13. A
14. C
15. D
16. A
17. C
18. A
19. D
20. B
21. B
22. A
23. C
24. D
25. A

PART IV (*60 questions*)

ENGLISH

1. He ran for the bus and _____ on.
A. had jump C. jumps
B. jump D. jumped

2. The test was hard for Paul and _____.
A. me C. myself
B. I D. himself

3. The flower smells _____.
A. sweetly C. sweeter
B. sweet D. more sweet

4. The suggestions of the employees _____ appropriate.
A. seems C. is
B. seem D. is very

5. He is the _____ of the two brothers.
A. most tall C. very tall
B. tallest D. taller

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- A. have changed
B. has changed

- C. will change
D. will have changed

13. If I _____ the same problems with you had as a child, I might not have succeeded in life as well as you have.

- A. should
B. had
- C. have
D. would have

14. If I could speak English well, I _____ next year studying in the States.

- A. has spend
B. would have spent
- C. would spend
D. will spent

15. I live in house _____ of the road.

- A. in the side
B. beside
- C. at the side
D. by the side

16. The boy likes to slide _____ the banister.

- A. beside
B. by
- C. along
D. down

17. It is cooler _____ part of the garden.

- A. in the shaded
B. in the shady
- C. render the shade
D. on the shady

18. I can't sleep _____ I am surrounded wit books.

- A. if
C. when

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25. She will retire soon because she _____ working hard for so long.

- A. has been C. have been
B. had been D. was

26. "He is the black sheep in the family". Which figure of speech is used?

- A. Synonym C. Metaphor
B. Simile D. Hyperbole

27. The hostages are free. They paid their way. What does this statement tell us.

- A. They scaped after paying.
B. After paying tey were released.
C. They negotiated peacefully.
D. They were freed without ransom.

28. October 10 is a "red letter day" for the Chinese. classify this expression.

- A. Idiom C. Metaphor
B. Simile D. Synonyms

29. Space age _____ on October 21, 1957 when Sputnik was launched by the Soviet Union.

- A. commenced C. ended
B. cited D. flourished

30. When he completed the assignment, he _____ it was well done.

- A. realize C. was realizing

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37. News travels as fast as wind. This statement is a/an _____.

- | | |
|-------------|------------|
| A. simile | C. idiom |
| B. metaphor | D. synonym |

38. She wrote a “first-rate” report. What does it say about the report?

- | | |
|--------------|--------------------|
| A. Ordinary | C. Mediocre |
| B. Excellent | D. Run-of-the-mill |

39. “A man is known by the company he keeps.” This is an example of a _____.

- | | |
|-----------|------------|
| A. report | C. poem |
| B. rule | D. proverb |

40. His apocalyptic views seemed to doom the human race. This is to be taken as _____.

- | | |
|--------------|---------------|
| A. apathetic | C. prophetic |
| B. lethargic | D. spiritless |

41. Our guest of honor was loquacious speaker. This means _____.

- | | |
|-------------|---------------|
| A. reserved | C. reticent |
| B. verbose | D. spiritless |

42. Except for the profanity, I liked story. What is the story about?

- | | |
|------------------|----------------|
| A. Shamelessness | C. Worldliness |
|------------------|----------------|

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49. Sge was a “Phantom of Delight” connotes that the woman is _____.

- A. real
- C. an illusion
- B. lovely
- D. virtou

50. The line, “Under the bludgeoning of chance, My head is bloody but unbowed” depicts the person’s _____.

- A. determination
- C. confidence
- B. courage
- D. optimism

51. Who is the author of “Without Seeing the dawn”?

- A. Maximo Ramos
- C. Paz M. Benitez
- B. Magdalena Jalandoni
- D. Stevan Javellana

52. Which among these is Nick Joaquin’s pen name?

- A. Douglas Quijano
- C. Mang Niko
- B. Quijano de Manila
- D. Santa Claus

53. “It is only with the heart that one can see rightly.” This line means _____.

- A. important things are invisible to the heart
- B. only the heart can see the beautiful things in life
- C. the heart is always correct about everything
- D. the heart is visible if one is kind

54. “If I prefer a government run like hell by Filipinos rather than one run b foreigners.” Who said this famous statement?

- A. Manuel L. Quezon
- C. Apolinario Mabini
- B. Jose Rizal
- D. Emilio Aguinaldo

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55. Our favorite song goes,

*No man is an Island, No man stands alone,
Each man's joy is joy to me
Each man's grief is my own.*

What does this song express?

- | | |
|-----------------|----------------------|
| A. Solitude | C. Brotherhood |
| B. Independence | D. Individualization |

56. "My loyalty to my party ends where my loyalty to my country begins." Who said this famous quotation?

- | | |
|---------------------|------------------------|
| A. Manuel L. Quezon | C. Carlos P. Romualdo |
| B. Manuel Roxas | D. Ferdinand E. Marcos |

57. What does the expression "love begets love" mean?

- A. Love is offered, not waiting for love in return.
- B. If you offer love, you will be loved in return.
- C. Don't expect love, though you love others.
- C. Love is not freely expected from everyone.

58. Who said "The Filipino is worth dying for?"

- | | |
|-----------------------|---------------------|
| A. Benigno Aquino Sr. | C. Andres Bonifacio |
| B. Jose Rizal | D. Carlos P. Garcia |

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59. The famous line goes, "A thing of beauty is a _____ forever."

- A. joy
- C. vision
- B. dream
- D. good

60. "My loyalty to my party ends where my loyalty to my country begins." Who said this famous quotation?

- A. Manuel L. Quezon
- C. Carlos P. Romualdo
- B. Manuel Roxas
- D. Ferdinand E. Marcos

Answer Key:

- 1. D
- 2. A
- 3. B
- 4. B
- 5. D
- 6. C
- 7. D
- 8. A
- 9. B
- 10. C
- 11. D
- 12. B
- 13. B
- 14. C

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- 15. D
- 16. D
- 17. B
- 18. B
- 19. C
- 20. C
- 21. B
- 22. B
- 23. D
- 24. B
- 25. A
- 26. C
- 27. B
- 28. A
- 29. A
- 30. D
- 31. B
- 32. A
- 33. B
- 34. D
- 35. D
- 36. B
- 37. A
- 38. B
- 39. D

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- 40. C
- 41. B
- 42. D
- 43. C
- 44. B
- 45. C
- 46. A
- 47. B
- 48. D
- 49. B
- 50. B
- 51. D
- 52. B
- 53. B
- 54. A
- 55. C
- 56. A
- 57. B
- 58. A
- 59. A
- 60. A

PART V (*180 questions*)

General Science

1. In which layer of the atmosphere does weather occur?

- A. Stratosphere
- B. Ionosphere
- C. Troposphere
- D. Mesosphere

2. What motion of the earth causes the occurrence of night and day?

- A. Revolution
- B. Rotation
- C. Solar translation
- D. Inclination of axis

3. What instruments are used to measure wind velocity?

- A. Odometer
- B. Thermometer
- C. Anemometer
- D. Hygrometer

4. Identify our galaxy and to which type does it belong?

- A. Andromeda; spiral
- B. Milky way; spiral
- C. Pegasus; irregular
- D. Magellanic; irregular

5. Which surface on earth heats and cools faster?
 - A. Atmosphere
 - B. Vegetation
 - C. Water
 - D. Soil
6. What forces keeps the planets in their orbits?
 - A. Magnetism and inertia
 - B. Inertia and gravity
 - C. Revolutionary forces
 - D. Gravity and electromagnetism
7. Why can the astronauts jump higher on the moon than earth?
 - A. Moon's gravity is one-sixth than earth.
 - B. There is no atmosphere on the moon
 - C. Their mass is less.
 - D. Moons gravity is more than one.
8. Which is the measure of the strength of an earthquake?
 - A. Magnitude
 - B. Tremors
 - C. Intensity
 - D. Focus
9. The core of the earth is composed of _____.
 - A. iron and sodium
 - B. iron and nickel
 - C. nickel and magnesium
 - D. magnesium and iron

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10. During the earth's revolution seasons occur due to the _____.
 - A. Inclination of the earth's orbit.
 - B. Inclination of the earth's axis.
 - C. Rate of earth's revolution.
 - D. Rate of earth's rotation.
11. What is the seasonal wind that is experienced from December to February, also called the "hanging amihan"?
 - A. Southwest monsoon
 - B. Tropical winds
 - C. Northeast monsoon
 - D. Trade winds
12. Choose the color of the stars with the highest temperature.
 - A. Red
 - B. Yellow
 - C. Orange
 - D. Blue-white
13. The most widely accepted theory on the origin of universe is the _____.
 - A. Steady state
 - B. Pulsating
 - C. Big Bang
 - D. Continental Drift
14. Which is the first mission and when it landed on the moon?
 - A. Apollo 13; July 16, 1969
 - B. Apollo 12; July 19, 1969
 - C. Apollo 11; July 21, 1969
 - D. Apollo 14; July 20, 1969

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15. The breaking of the boulders into small particles due to the action of wind and water is called _____.
- A. erosion
 - B. **weathering**
 - C. deflation
 - D. faulting
16. How long does earth complete one journey around the sun?
- A. 365 days
 - B. **365 ¼ days**
 - C. 24 hours
 - D. 27 1/3 days
17. Choose which material could be used as insulator.
- A. Iron
 - B. Copper
 - C. **Plastic**
 - D. Aluminium
18. The application of the findings of science for practical purposes is called _____.
- A. fact
 - B. data
 - C. **technology**
 - D. experimentation
19. Which of the following serves as thermal insulator in the body?
- A. Carbohydrates
 - B. Nucleic Acid
 - C. **Fats**
 - D. Proteins

20. He is considered as the Father of the Modern Chemistry.
- A. Antoine Laurent Lavoisier
 - B. Antoine van Leeuwenhoek
 - C. Dmitri Ivanovich Mendeleev
 - D. John Joseph Thomson
21. Astronomy : celestial bodies :: _____ : earth's structure.
- A. earth science
 - B. geology
 - C. meteorology
 - D. physical science
22. Physics and Chemistry both deal with matter. Physics studies matter and energy while Chemistry is concerned with matter and _____.
- A. chemicals
 - B. substances
 - C. phase transition
 - D. composition
23. All of the following physical sciences comprise the Geoscience EXCEPT:
- A. geology
 - B. astronomy
 - C. astrology
 - D. meteorology
24. Identify the following quantities as scalar or vector respectively: mass of an object, the number of leaves on a tree, and wind velocity.
- A. Scalar, Scalar, Vector
 - B. Vector, Scalar, Scalar
 - C. Scalar, Vector, Vector

- D. Vector, Scalar, Vector
25. The making of careful observations and experiments, then using the data obtained to formulate general principles is called _____.
- A. scientific method
 - B. experimental method
 - C. logical method
 - D. hypothetical method
26. If the theory survives, it becomes a valid _____.
- A. hypothesis
 - B. assumption
 - C. conjecture
 - D. law
27. The scientist undergoes a manipulative process by which a prediction made on the basis of hypothesis can be tested. This is called _____.
- A. analyzation
 - B. conclusion
 - C. hypothesization
 - D. experimentation
28. An instrument used to measure mass is the _____.
- A. triple beam balance
 - B. double span balance
 - C. platform balance
 - D. all of the above
29. Using your test tube, you are asked to boil about 10 mL of water. What is the proper way of holding the test tube when you're working with somebody in a laboratory?

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- A. Keep it away from anybody else.
 - B. Face the test tube to him while heating.
 - C. Hold it directly above the flame
 - D. All of the above.
30. What will you use to transfer a liquid in a small-mouthed bottle without spilling?
- A. stirring rod
 - B. **funnel**
 - C. petri dish
 - D. watch glass
31. Used in spreading the flame of the alcohol lamp.
- A. hot plate
 - B. Bunsen burner
 - C. watch glass
 - D. **wire gauze**
32. The amount of space an object takes up is its _____.
- A. mass
 - B. weight
 - C. **volume**
 - D. density
33. The standard unit of length in metric system is _____.
- A. kilometer
 - B. **meter**
 - C. gram
 - D. liter
34. The standard unit of mass in metric system is _____.

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- A. gram
 - B. kilogram
 - C. meter
 - D. liter
35. Pure water freezes at _____.
 - A. 0°C
 - B. 10°C
 - C. 37°C
 - D. 100°C
36. Water dripping continuously from the cave will eventually produce a long ice like deposit of calcites which hangs from the roof. This is called
 - A. Stalactite
 - B. Stalagmite
 - C. Sinks
 - D. Geode
37. Which of the following is an example of matter?
 - A. sound
 - B. heat
 - C. fire
 - D. light
38. The two major characteristics of matter are:
 - A. mass and area
 - B. mass and weight
 - C. mass and density
 - D. mass and volume

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39. Which sample of matter does NOT undergo melting?

- A. ice
- B. ice cream
- C. butter
- D. mothball

40. Why is the planet earth NOT thrown away by its orbit?

- A. It is controlled by its fast revolution.
- B. There is a path that holds it firmly.
- C. The size is just right to maintain its distance.
- D. The sun's gravitational pull and inertia put it.

41. Soft drink : solution :: _____ : compound.

- A. wine
- B. alloy
- C. rubbing alcohol
- D. carbohydrate

42. Of the states of matter, which has the weakest intermolecular forces of attraction?

- A. solid
- B. gas
- C. liquid
- D. plasma

43. Which technique can be best used by April Joy in separating the components of salt solution?

- A. distillation
- B. floatation
- C. chromatography
- D. centrifugation

44. Which is NOT true regarding metals?
- A. Metals are malleable and ductile
 - B. Metals have high tensile strength.
 - C. Metals are good conductors of heat.
 - D. Metals are poor reflectors of light.
45. Which is an intrinsic physical property?
- A. mass
 - B. volume
 - C. length
 - D. color
46. Which of the following illustrates a physical change?
- A. butter melts
 - B. fruits ripen
 - C. milk turns sour
 - D. iron rusts
47. Which of the following has the greatest number of atoms
- A. $\text{Ca}(\text{OH})_2$
 - B. NaHCO_3
 - C. Al_2O_3
 - D. C_2H_2
48. An atom of element Calcium has mass number 40 and atomic number 20. What is the number of protons and neutrons of this atom?
- A. 40 p+ and 20 n
 - B. 20 p+ and 20 n
 - C. 40 p+ and 40 n
 - D. 20 p+ and 40 n

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49. Negative ion : _____ :: Positive ion : _____.

- A. anion : cation
- B. cation : anion
- C. polyion : monoion
- D. monoion : polyion

50. Aluminum sulfate has a chemical formula, $\text{Al}_2(\text{SO}_4)_3$. Identify the number of oxygen atoms.

- A. 12
- B. 4
- C. 7
- D. 2

51. Water (H_2O) is considered as an excellent solvent. What is its chemical name?

- A. dihydrogen oxide
- B. dihydrogen monoxide
- C. hydrogen monoxide
- D. hydrogen oxide

52. What is the common name of sodium chloride (NaCl)?

- A. table salt
- B. baking soda
- C. lye
- D. dry ice

53. According to the scientific definition of work, pushing a table accomplishes no work unless there is _____.

- A. An opposing force
- B. A net force greater than zero
- C. An applied force greater than its weight
- D. Movement in the same direction as the force

54. Which part of the brain controls the heart actions, breathing and digestion?
- A. Medulla Oblongata
 - B. Cerebellum
 - C. Cerebrum
 - D. Thalamus
55. Which blood type has neither anti-A or anti-B and can receive blood from anyone?
- A. AB
 - B. A
 - C. B
 - D. O
56. What is the process that uses microbes to break down pollutants in the environment, particularly the soil?
- A. Bioelimination
 - B. Pollutant Breakdown
 - C. Bioremediation
 - D. Environment eradication
57. Which of the following techniques will enable us to detect the defects of the fetus as early as the 8th and 12th week of pregnancy?
- A. Amniocentesis
 - B. Ultrasound
 - C. Bar Body Test
 - D. Chorionic sampling
58. Name the organelle that is found in the cytoplasm which is composed of protein and liquid molecules and is considered the powerhouse of the cell?
- A. Mitochondria
 - B. Lysosome
 - C. Centrosome

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- D. Golgi Bodies
59. Fishermen are advised not to drink ocean water because it can cause _____.
A. Dehydration of the cells
B. Bursting of the cell
C. Increase in cell pressure
D. Poisoning of the cell
60. Bile which is used to emulsify fat is stored in the _____.
A. Liver
B. Urinary bladder
C. Gall bladder
D. Kidney
61. Which is the emergency hormone?
A. Throxine
B. Pitvitrin
C. Oxytocin
D. Adrenalin
62. In the creation of a genetically modified organism in the country today, what microbial organisms is being used?
A. Pseudomones vulgaris
B. Agrobacterium
C. Bacillus thuringensis
D. Escherichia coli
63. This law of motion states that a body at rest, or in uniform motion, will remain so unless acted upon by an unbalanced force.
A. A. Law of Inertia
B. B. Law of Acceleration
C. C. Law of Interaction

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- D. D. Law of Motion
64. The shape of the Earth is described as _____.
A. oblate spheroid
B. spherical oblong
C. oblongated round
D. round spheroid
65. What is the standard time zone of the Philippines?
A. GMT +2
B. GMT +5
C. **GMT +8**
D. GMT +12
66. Which of the following is an organic compound?
A. Baking soda
B. **Glucose**
C. Limestone
D. Sulfuric Acid
67. The turning, or spinning, of the Earth on its axis is known as _____.
A. turnation
B. precession
C. revolution
D. **rotation**
68. Earth is tilted _____.
A. $23 \frac{3}{4}^{\circ}$
B. **$23 \frac{1}{2}^{\circ}$**
C. $23 \frac{1}{4}^{\circ}$

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- D. 23°
69. The science that deals with the study of the atmosphere is called _____.
A. astronomy
B. meteorology
C. geology
D. oceanography
70. What is the percentage of world's water?
A. 71%
B. 75%
C. 80%
D. 97%
71. The outermost layer of Earth which is solid and relatively thin, and it lies below both landmasses and oceans.
A. crust
B. mantle
C. lithosphere
D. asthenosphere
72. It is a molten rock which forms deep within the Earth. As it cools, elements combine to form minerals.
A. lava
B. magma
C. caldera
D. vulcan
73. It is used to describe how light is reflected from the surface of a mineral.
A. luster
B. fracture
C. hardness

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- D. cleavage
74. The time it takes for the moon to rotate along its axis once is _____.
A. 27 1/3 days
B. 24 hours
C. 30 days
D. 365 1/4 days
75. The first men who stepped on the moon are _____.
A. Neil Armstrong and Yuri Gagarin
B. Neil Armstrong and Edwin Aldrin Jr.
C. Yuri Gagarin and Edwin Aldrin Jr.
D. Neil Armstrong and Joseph Clark
76. Sun-Moon-Earth alignment produces what kind of eclipse?
A. annular
B. partial
C. solar
D. lunar
77. A localized conglomerate of the gaseous and finely divided dust particles that are spread throughout interstellar space.
A. star
B. nebula
C. ellipse
D. cloud
78. How long will light travel from the surface of the sun to the earth?
A. 7 minutes and 35 seconds
B. 9 minutes and 4 seconds
C. 8 minutes and 17 seconds

- D. 7 minutes and 15 seconds
79. Mario met an accident and was bleeding profusely. He needed a blood type AB transfusion. There was confusion on what to do because no blood type AB was available. Somehow he survived because they were able to give him blood. Which of the following best explains this?
- Type A was mixed with type B blood
 - Type B was mixed with type A blood
 - Type AB can receive type A blood
 - Type AB can be given any blood type
80. Matter exists in the form of units which can be classified in hierarchies or organizational levels. Which of the following units shows a correct hierarchical organization?
- atom – molecule – element – compound – mixture
 - cell – tissue – organ – system – organism
 - solids – liquids – gases – plasma
 - protons – neutrons – electrons – ions
81. Which of the following environmental conditions has been blamed for the usual occurrence of “fish kills”?
- Acid rain
 - Eutrophication
 - Atmospheric pollution
 - Silting of lakes
82. What is the escape mechanism by which the mud fish and the catfish change from a darker color to a lighter one depending on the color of the water called?
- protective mimicry
 - adaptive coloration
 - habitat protection
 - aggressive coloration

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83. Because of his immense and great contributions in the field, he is considered as the Father of Biology.
- A. Aristotle
 - B. Hippocrates
 - C. Galen
 - D. Empedocles
84. Anatomy : _____ :: Physiology : _____.
- A. function : structure
 - B. function : variation
 - C. structure : function
 - D. structure : origin
85. He is considered as the Father of Microscopy.
- a. Robert Hooke
 - b. Antoine Laurent Lavoisier
 - c. Zacharias Janssen
 - d. Anton van Leeuwenhoek
86. The scientific name of modern human.
- A. *Homo erectus*
 - B. *Homo sapiens sapiens*
 - C. *Homo neanthertalis*
 - D. *Homo habilis*
87. A structure within a cell that performs a specific function.
- A. A. organelle
 - B. B. cell
 - C. C. organ
 - D. D. molecule

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88. Molecules derived from living systems such as carbohydrates, lipids, proteins and nucleic acids.
- A. organelle
 - B. protoplasm
 - C. cell
 - D. biomolecules
89. This biological molecule includes the DNA, RNA and adenosine triphosphate (ATP).
- A. nucleic acid
 - B. carbohydrate
 - C. protein
 - D. lipid
90. Nucleic acid that stores genetic information in cells and transmits it during reproduction.
- A. DNA
 - B. RNA
 - C. ATP
 - D. ETC
91. He coined the term 'cell' which he likened to the compartments in the monastery being used by the monks.
- A. Felix Dujardin
 - B. Theodor Schwann
 - C. Robert Hooke
 - D. Anton van Leeuwenhoek
92. Each cell contains how many chromosomes?
- A. 40
 - B. 44
 - C. 42
 - D. 46

93. Stored in thylakoids of chloroplast which gives plant leaves their green color.
- A. xanthophylls
 - B. granum
 - C. chlorophyll
 - D. chromatin
94. The nucleus is the storehouse for most of the genetic information or DNA. What do you mean by DNA?
- A. deoxyribonucleic acid
 - B. densed natural amino
 - C. deoxygenated acid
 - D. double natural amine
95. In many cells, the organelle that controls the cell's activities is _____.
- A. nucleus
 - B. nuclear pore
 - C. nuclear envelop
 - D. nucleolus
96. The maintenance of a controlled internal environment.
- A. envirolysis
 - B. plastolysis
 - C. cytokinesis
 - D. homeostasis
97. Diffusion of water through a selectively permeable membrane.
- A. osmosis
 - B. active transport
 - C. exocytosis
 - D. phagocytosis

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98. Which does NOT belong to the group?

- A. tendon
- B. bone
- C. skin
- D. cartilage

99. Which of the following factors contribute to an increase in human population?

- | | |
|----------------|----------------|
| I. Immigration | II. Emigration |
| III. Natality | IV. Mortality |
- A. III and IV
 - B. II and III
 - C. I only
 - D. I and III

100. Today, a computerized machine could send regular electrical impulses to the heart muscles in order for it to beat rhythmically. What is this machine is called?

- A. homeostatic machine
- B. laser
- C. pacemaker
- D. pressure maker

101. Cruz has a collection of orchids. She applied jelly on her orchids' leaves. Soon the orchid slowly wilted because the _____.

- A. stomata in the leaves were covered
- B. leaves were shiny because of jelly
- C. jelly consumed the heat
- D. leaves were made hot by the jelly

102. The existence of extraterrestrial life may never be proven, but this idea will become more scientifically acceptable over time if _____.

- A. Alternative hypotheses are proposed and confirmed
 - B. Hypotheses are made related to the idea
 - C. No one disputes this idea in scientific forum
 - D. Increasing scientific evidence supports the idea.
103. Leaves are green in the sunlight because _____.
- A. they absorb green light
 - B. their tints bounce off
 - C. they absorb the blue and yellow object and yellow light
 - D. they reflect green light
104. A Biology teacher described herself biologically. "My estrogen level is decreasing and I have signs of osteoporosis." What is TRUE of the Biology teacher?
- A. She is a chain smoker.
 - B. She is in her late adolescence.
 - C. She is a spinster.
 - D. She is in her post-menopausal period.
105. Which of the following physical changes involve adding heat to a substance?
- A. Boiling and condensing
 - B. Condensing and freezing
 - C. Evaporating and condensing
 - D. Melting and boiling
106. In which kingdom should MOLD be classified
- A. Bacteria
 - B. Plantae
 - C. Fungi
 - D. Animalia

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107. What is the MOST likely reason for a desert plant to have a few or no leaves?

- A. increase photosynthesis
- B. decrease photosynthesis
- C. increase transpiration
- D. decrease transpiration

108. Which structure closes the opening in the larynx while we are swallowing?

- a. Glottis
- b. Epiglottis
- c. Septum
- d. Pharynx

109. The union of an egg and a sperm in an artificial environment such as a test tube or laboratory dish is called _____.

- A. embryonic induction
- B. internal fertilization
- C. in-vitro fertilization
- D. conception

110. Which hormones promotes the development of secondary male sexual characteristics?

- A. Progesterone
- B. Testosterone
- C. Estrogen
- D. Gonads

111. Physical traits are transmitted from parents to offspring through

- A. genes
- B. gametes
- C. Chromosomes

- D. alleles
112. Which of the iron-containing compounds gives the red corpuscles its color?
- A. Albumin
 - B. Hemoglobin**
 - C. Serum globulin
 - D. Fibrinogen
113. Which connective tissue make up the tip of our nose and external ear?
- A. Tendon
 - B. Ligament
 - C. Cartilage**
 - D. Tough cords
114. The two minerals that are needed for the bone and tooth formation and blood clotting are _____.
- A. calcium and potassium
 - B. calcium and phosphorus**
 - C. iron and iodine
 - D. sodium and lead
115. Organisms that can manufacture their own food are called _____.
- A. carnivores
 - B. Omnivores
 - C. autotrophs**
 - D. heterotroph
116. Which phenomenon of global warming in the Pacific Ocean will also likely increase in frequency and severity as long-term global warming continues?
- A. A. El Nino**

- B. B. La Nina
 - C. Trade winds
 - D. None of these
117. Water boils, therefore if a liquid boils it must be water. This statement is :
- A. correct, because boiling water is a liquid.
 - B. correct, because water is a liquid that boils.
 - C. wrong, because water does not always boil.
 - D. wrong, because not all liquids is water.
118. Which statement is **TRUE** of gases?
- A. The particles that make up gases are packed together in a relatively fixed position.
 - B. Gases expand to fill all the space available.
 - C. Gases have a definite volume.
 - D. Gases have a definite shape.
119. Water vapor in the air turns to liquid water in the form of rain. This is an example of a _____.
- A. physical change.
 - B. chemical change.
 - C. chemical equation
 - D. chemical formula.
120. Which is a characteristic property of acids?
- A. Acids turn blue litmus paper red.
 - B. Acids turn red litmus paper blue.
 - C. Acids taste bitter.
 - D. Acids do not react with metals.
121. Which of the following is the general term referring to the transformation of liquid water to gaseous vapor?

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- A. transpiration
 - B. condensation
 - C. exhalation
 - D. evaporation**
122. If a plant was able to produce 2000 kcal of energy during photosynthesis, how much energy would a secondary consumer gain after eating the herbivore that fed on the said plant?
- A. 2 kcal
 - B. 20 kcal**
 - C. 200 kcal
 - D. 1000 kcal
123. In an energy pyramid which group of organisms receive the least amount of energy?
- A. Producers
 - B. First-order consumer
 - C. Second-order consumer
 - D. Third-order consumer**
124. What kind of biome is prevalent in the equatorial zone of the earth, to which our country belongs?
- A. Taiga
 - B. Tundra
 - C. Tropical rainforest**
 - D. Fresh water
125. Which is the property of a particular species living in a particular setting together with the role it plays in relation with other species?
- A. Habitat
 - B. Niche**
 - C. Population
 - D. Community

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126. Choose from among these heterotrophs organisms that feed on partially decomposed tissues of plants and animals.

- A. Herbivores
- B. Autotrophs
- C. Detritivores
- D. Carnivores

127. Which is the biogas obtained from biological waste such as those from animal manures which contains hydrocarbons?

- A. Methane
- B. Alcogas
- C. Ester
- D. Ethanol

128. What is disposal area where solid wastes are deposited, spread in layers, compacted and covered with soil daily?

- A. Open dump
- B. Incinerator
- C. Sanitary landfill
- D. Recycling dump

129. Which part of the flower develops into fruits?

- A. Ovule
- B. Ovary
- C. Petal
- D. Anther

130. Which of the following is the unit of structure all living things?

- A. Tissue
- B. Organ
- C. Cell
- D. Muscle

131. Which is the correct sequence of the stages of mitosis?

- A. Telophase, Anaphase, Metaphase, Prophase
- B. Metaphase, Anaphase, Telophase, Prophase
- C. Anaphase, Prophase, Metaphase, Telophase
- D. Prophase, Metaphase, Anaphase, Telophase

132. Which explain the absence of weather on the moon?

- A. Moon rotates on its axis fast.
- B. Moon revolves very fast.
- C. Moons gravity is very high.
- D. Moon has no atmosphere.

133. Who proposed the theory of evolution that is based on natural selection?

- A. Watson
- B. Darwin
- C. Lamarck
- D. Mendel

134. What gas is released during photosynthesis?

- A. Carbon dioxide
- B. Oxygen
- C. Nitrogen
- D. Hydrogen

135. When the stems of vines grow around poles of fences, what kind of response is exhibited?

- A. Geotropism
- B. Thigmotropism
- C. Hydrotropism
- D. Phototropism

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136. Trace the conversion of energy that occurs when plants manufacture food.

- A. Radiant energy to chemical energy
- B. Radiant energy to kinetic energy
- C. Mechanical to potential energy
- D. Light energy to kinetic energy

137. At present, a patient fights cancer by surgery or by drug treatment called_____.

- A. irradiation
- B. viral treatment
- C. chemotherapy
- D. immune therapy

138. Which type of radiation has the shortest wavelength?

- A. gamma rays
- B. microwaves
- C. radio waves
- D. x-rays

139. Packets of light energy are called _____.

- A. quanta
- B. prism
- C. photons
- D. spectrum

140. What is the correct order of colors in a visible light passing through a prism?

- A. RYOGBIV
- B. ROYBGVI
- C. ROYBGIV
- D. ROYGBIV

141. An earth-orbiting spacecraft that provides communication over long distances by reflecting or relaying radio-frequency signals is called _____.
A. signal
B. spectrum
C. sim
D. **satellite**
142. The transfer of energy through physical contact is called _____.
A. radiation
B. convection
C. emission
D. **conduction**
143. It is a unit of length sometimes used to measure vast distances. It is equivalent to the distance that light travels in a mean solar year.
A. solar-year
B. astronomical unit
C. light-day
D. **light-year**
144. It refers to the group of stars that form a pattern in the sky.
A. astropattern
B. **constellation**
C. stellarium
D. starrium
145. The hottest planet in the solar system is _____.
A. Mercury
B. Mars
C. **Venus**

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D. Jupiter

146. The red color of the dust in Mars is due to what compound in the soil?

- A. silver nitrate
- B. iron oxide
- C. methane
- D. carbon monoxide

147. It is the most striking feature in Jovian surface in its southern hemisphere which is actually a cyclonic storm.

- A. Grand Canyon
- B. Great Red Spot
- C. Olympus Mons
- D. Valles Marineris

148. When did IAU struck Pluto from the list, demoting it to the newly created category of "dwarf planet?"

- A. August 24, 2006
- B. August 26, 2006
- C. August 25, 2006
- D. August 27, 2006

149. Meteoroid that actually reaches Earth's surface is called _____.

- A. meteorite
- B. coma
- C. meteor
- D. meta

150. What is the chemical name of CF_4 ?

- A. carbon trifluoride
- B. monocarbon tetrafluoride
- C. carbon tetrafluoride

D. monocarbon trifluoride

151. During periods of increased global temperatures, which of the following is likely to occur?

- A. An increase in atmospheric CO₂
- B. A decrease in atmospheric CO₂
- C. A decrease in in earthquakes
- D. A increase in in earthquakes

152. Why is the Philippines much hotter than Canada? The Philippines _____.

- A. receives sun rays closer to vertical position
- B. has more vegetation to absorb sunlight
- C. has days with more hours of light
- D. has a denser population than Canada

153. Which of these effects generally occurs as a result of warm air mass and a cooler air mass converging at earth's surface

- A. Stormy weather patterns develop.
- B. Winds die down
- C. The sky becomes clear
- D. Cloud formation decreases

154. Why do fisherfolks catch more fish during the new moon than during the full moon?

- A. Fishes are more active during the new moon because the salt content of water is just right.
- B. Fishes look for mates during the new moon.
- C. Fishes go near the surface during the new moon because the water is warmer.
- D. Fishes attached to the light from the fishing boat which fisherman makes use of during the new moon.

155. Bagoong smells because _____.

- A. air and volatile particles from bagoong mix and get spoiled further
- B. that is the natural scent of bagoong
- C. molecules from bagoong spread in air

- D. it uses spoiled fish ingredients
156. Every morning when the sun shines through the glass jalousie of Maria's window, she sees a rainbow on her wall. Which could explain this?
- A. The glass jalousies break up the beam of sunlight into the colors of the rainbow.
 - B. The glass jalousies cast colored shadows.
 - C. In the morning, sunlight shines on the wall painted with rainbow colors.
 - D. There are water droplets on the glass that act like a prism
157. Why do leaves with green color look green in the sunlight?
- A. The blue and yellow bounces off from the leaves.
 - B. They absorb the blue and yellow object and yellow light.
 - C. They absorb the green light.
 - D. They reflect green light.
158. The correct way of eating fruits is when eaten _____.
- A. with an empty stomach
 - B. before sleeping at night
 - C. after meals
 - D. during snacks
159. An eclipse of the sun throws the shadow of the _____.
- A. moon on the earth
 - B. earth on the sun
 - C. moon on the sun
 - D. earth on the moon
160. Which of the following statements about living things is FALSE?
- A. All living things use energy to function.
 - B. All living things are composed of cells.

- C. All living things have a nervous system.
- D. All living things are capable of reproduction.

161. Which among the following are duplicated during the process of mitosis?

- A. Centromeres
- B. Chloroplasts
- C. Chromosomes
- D. Centrosomes

162. Plants create their own food by absorbing and processing sunlight. The ability to produce one's own food source is a metabolic process known as _____.

- A. Heterotrophy
- B. Homotrophy
- C. Autotrophy
- D. Ditrophy

163. Fungi absorb the nutrients from dead organisms. In an ecosystem what roles do they play?

- A. Producers
- B. Saprophytes
- C. Carnivore
- D. Epiphytes

164. Which of the following is NOT an example of a naturally-occurring sugar?

- A. Sucrose
- B. Glucose
- C. Mitose
- D. Galactose

165. What is the main difference between prokaryotes and the eukaryotes?

- A. The eukaryote has a nucleus, but the prokaryote does not have.

- B. The prokaryote has a nucleus, but the eukaryote does not have.
 - C. The eukaryote is always larger than the prokaryote.
 - D. The eukaryote is the only type of cell than is capable of photosynthesis.
166. Which type of digestion occurs in the mouth when an individual chews a piece of bread?
- A. Mechanical digestion only
 - B. Chemical digestion only
 - C. Both mechanical chemical digestion
 - D. Neither mechanical nor chemical digestion
167. The worms in this phylum are all very thin and flat, like the parasitic liver fluke.
- A. Arthropoda
 - B. Annelida
 - C. Nematoda
 - D. Platyhelminthes
168. Insects are the biggest in number in the entire life kingdom. They belong to what phylum?
- A. Arthropoda
 - B. Annelida
 - C. Mollusca
 - D. Platyhelminthes
169. All of the following are cnidarians EXCEPT:
- A. jellyfish
 - B. corals
 - C. sea anemones
 - D. sea urchin
170. Crocodiles and alligators belong to what chordate class?
- A. Aves

B. Reptilia

C. Mammalia

D. Amphibia

171. What does a pH below 7 indicate?

A. Presence of ions

B. Alkalinity

C. Purity of the sample

D. Acidity

172. The U.S. was able to produce a test-tube baby through a process called _____.

A. gene pairing C. internal fertilization

B. protoplast fusion D. **in vitro fertilization**

173. When does a summer solstice occur and describe it

A. June 21 and 22 wherein days are longer than night.

B. Mach 21 and 22, there is equal length of day and night.

C. September 22 or 23, nights are longer than days.

D. December 21 and 22, nights are longer than days.

174. Which part of the nucleus of an atom determines the isotope?

A. Proton

B. Electron

C. Positron

D. Neutron

175. Sea stars, sand dollars and sea urchins are _____.

A. poriferans

B. **echinoderms**

C. cnidarians

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D. mollusks

176. The earthworms play an important role in soil ecology. By being continually loosened, stirred up, and aerated by the action of earthworms, soil is made more fertile. Earthworms also form a source of food for many animals, and constitute the principal food of moles and shrews. Earthworm belongs to what phylum?

- A. Arthropoda
- B. Annelida
- C. Mollusca
- D. Platyhelminthes

177. The sun appears more reddish at sunset than at noon. Which of the following phenomena is responsible for this effect?

- A. Dispersion
- B. Reflection
- C. Scattering
- D. Interference

178. Riders in a bus are pushed forward during a sudden stop. Which law of motion provides an explanation?

- A. Law of Inertia
- B. Law of Interaction
- C. Law of Universal Gravitation
- D. Hook' Law

179. The human adult skeletal system is composed of around _____ bones.

- A. 206
- B. 280
- C. 350
- D. 260

180. What phylum do YOU belong?

- A. Arthropoda
- B. Annelida
- C. Mollusca
- D. Chordata