



LUTH

Lagos University Teaching Hospital

SCHOOL OF NURSING

2021-2022

Past Questions and Answers

APTITUDE TEST

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LUTH SCHOOL OF NURSING PAST QUESTIONS

MATHEMATICS QUESTIONS 2021

1. A line which cuts a pair of parallel lines is called

- (A) tangent
- (B) chord
- (C) transversal
- (D) intersector

2. An angle whose value is ____, is called complete angle.

- (A) 180°
- (B) 240°
- (C) 360°
- (D) none of the above

3. The areas of two similar triangles are 81 sq. cm and 49 sq. cm. Find the ratio of their corresponding heights.

- (A) 9:7
- (B) 7:9
- (C) 6:5
- (D) 81:49

4. Consider $\triangle ABD$ such that angle $ADB = 20^\circ$ and C is a point on BD such that $AB=AC$ and $CD=CA$. Then the measure of angle ABC is

- (A) 30°
- (B) 40°
- (C) 45°

(D) 60°

5. If the length and breadth of a rectangle are increased by $a\%$ and $b\%$ respectively, then the area will be increased by

(A) $(a-b+2ab/100)\%$

(B) $(a+b+2ab/100)\%$

(C) $(a+b+ab/100)\%$

(D) $(a-b+ab/100)\%$

6. A, B and C can complete a piece of work in 14, 6 and 12 days respectively. Working together, they will complete the work in

(A) $19/9$ days

(B) 27 days

(C) $28/9$ days

(D) $25/8$ days

7. If $Px = Qy = Rz$ and $Q/P = R/Q$, then $2z/(x+z) = ?$

(A) y/z

(B) y/x

(C) x/y

(D) z/y

8. A shopkeeper purchases 15 mangoes for Rs. 10 and sells them at 10 mangoes for Rs. 15. Thus, he earns a profit of

(A) 50%

(B) 75%

(C) 80%

(D) 125%

9. $4950/6 + 112 \times 1.75 = ? \times 2$

- (A) 510.5
- (B) 505.2
- (C) 515.5
- (D) none of the above

10. If a certain sum of money can become 5 times of its principal in 10 years, then the rate of interest is

- (A) 20%
- (B) 30%
- (C) 40%
- (D) 50%

11. An amount of Rs. 10,000 becomes Rs. 20,736 in 2 years. If the rate of interest is compounded half yearly, what is the annual rate of interest?

- (A) 25%
- (B) 20%
- (C) 40%
- (D) 30%

12. What will come in the place of question mark (?) in the following series?

2, 5, 7, 12, 19, 31, 50, ?

- (A) 81
- (B) 74
- (C) 69
- (D) none of the above

13. In an equilateral triangle has the height of 12 cm then what is the area of the triangle?

(A) $42\sqrt{3}$ c.c.

(B) $48\sqrt{3}$ c.c.

(C) $24\sqrt{3}$ c.c.

(D) $34\sqrt{3}$ c.c.

14. The monthly income and monthly expenditure ratio of A and B are 5:6 and 4:5 respectively. If both of them can have Rs. 500 as monthly savings, then what is the income of A?

(A) Rs. 3,000

(B) Rs. 500

(C) Rs. 5,000

(D) Rs. 2,500

15. Find out the least number which when multiplied by 45, the result becomes a perfect square.

(A) 9

(B) 15

(C) 5

(D) None of the above

16. $(175)^2 - (75)^2 = ?$

(A) 5000

(B) 20000

(C) 25000

(D) None of the above

17. If $a = \frac{\sqrt{3}+1}{\sqrt{3}-1}$ and $b = \frac{\sqrt{3}-1}{\sqrt{3}+1}$ then $\frac{a^2+ab+b^2}{a^2-ab+b^2} = ?$

- (A) $15/11$
- (B) $17/11$
- (C) $19/11$
- (D) 1

18. If the fractions $3/5$, $2/3$, $1/4$, $5/7$ and $6/11$ are arranged in ascending order of their values, then which one will be the fourth

- (A) $3/5$
- (B) $1/4$
- (C) $5/7$
- (D) $2/3$

19. 1 hectare = ?

- (A) 1000 m²
- (B) 10000 m²
- (C) 100000 m²
- (D) None of the above

20. The sum of two numbers is 24 and the sum of their squares is 386, then one number is

- (A) 17
- (B) 19
- (C) 9
- (D) 11

ANSWERS

1-(C), 2-(C), 3-(A), 4-(B), 5-(C), 6-(C), 7-(B), 8-(D), 9-(A), 10-(C), 11-(C)
12-(A), 13-(C), 14-(D), 15-(C), 16-(C), 17-(D), 18-(D), 19-(B), 20-(B)

ENGLISH PAST QUESTIONS 2021

Mount Vesuvius, a volcano located between the ancient Italian cities of Pompeii and Herculaneum, has received much attention because of its frequent and destructive eruptions.

The most famous of these eruptions occurred in A.D. 79. The volcano had been inactive for centuries. There was little warning of the coming eruption, although one account unearthed by archaeologists says that a hard rain and a strong wind had disturbed the celestial calm during the preceding night.

Early the next morning, the volcano poured a huge river of molten rock down upon Herculaneum, completely burying the city and filling the harbor with coagulated lava. Meanwhile, on the other side of the mountain, cinders, stone and ash rained down on Pompeii. Sparks from the burning ash ignited the combustible rooftops quickly. Large portions of the city were destroyed in the conflagration. Fire, however, was not the only cause of destruction. Poisonous sulfuric gases saturated the air.

These heavy gases were not buoyant in the atmosphere and therefore sank toward the earth and suffocated people. Over the years, excavations of Pompeii and Herculaneum have revealed a great deal about the behavior of the volcano. By analyzing data, much as a zoologist dissects an animal specimen, scientists have concluded that the eruption changed large portions of the area's geography. For instance, it turned the Sarno River from its course and raised the level of the beach along the Bay of Naples. Meteorologists studying these events have also concluded that Vesuvius caused a huge tidal wave that affected the world's climate.

In addition to making these investigations, archaeologists have been able to study the skeletons of victims by using distilled water to wash away the volcanic ash. By strengthening the brittle bones with acrylic paint, scientists have been able to examine the skeletons and draw conclusions about the diet and habits of the residents. Finally, the excavations at both Pompeii and Herculaneum have yielded many examples of classical art, such as jewelry made of bronze, which is an alloy of copper and tin.

The eruption of Mount Vesuvius and its tragic consequences have provided everyone with a wealth of data about the effects that volcanoes

can have on the surrounding area. Today, volcanologists can locate and predict eruptions, saving lives and preventing the destruction of other cities and cultures.

1. Herculaneum and its harbor were buried under _____ lava.

- A. liquid
- B. solid
- C. flowing
- D. Gas
- E. Answer not available

Correct Answer: B

2. The poisonous gases were not _____ in the air.

- A. able to float
- B. visible
- C. able to evaporate
- D. Invisible
- E. able to condense

Correct Answer: A

3. Scientists analyzed data about Vesuvius in the same way that a zoologist _____ a specimen.

- A. describes in detail
- B. studies by cutting apart
- C. photographs
- D. chart
- E. Answer not available

Correct Answer: B

4. _____ have concluded that the volcanic eruption caused a tidal wave.

- A. Scientists who study oceans
- B. Scientists who study atmospheric conditions
- C. Scientists who study ash
- D. Scientists who study animal behavior
- E. Answer not available in article

Correct Answer: B

5. Scientists have used _____ water to wash away volcanic ash from the skeletons of victims.

- A. bottled
- B. Volcanic
- C. purified
- D. sea
- E. Fountain

Correct Answer: C

In the following sentence, there is an underlined word and one gap. From the list of words lettered A to D, choose the one that is most nearly opposite in meaning to the underlined word and that will at the same time, correctly fill the gap in the sentence.

6. Halima likes to dwell on trivial, rather than _____ matters.

- A. strong
- B. popular
- C. weighty
- D. heavy

Correct Answer: C

7. We all know that Bola is insolent whereas Ade is _____

- A. cowardly
- B. respectful
- C. humble
- D. modest

Correct Answer: B

8. A few days after Musa's _____, his sister longed for his departure.

- A. coming
- B. entrance
- C. arrival
- D. welcome

Correct Answer: C

9. Algebra seems complicated, but with practice it becomes _____

- A. solved
- B. simple
- C. accessible
- D. achievable

Correct Answer: B

10. Mrs. Agide is unassuming whereas her twin sister is _____

- A. cheerful
- B. boastful
- C. loud
- D. rude

Correct Answer: B

From the words lettered A to D, choose the word that best completes each of the following sentences.

11. At Christmas, employees of the Sugar Factory receive huge _____

- A. benefits
- B. dividends
- C. bonuses
- D. salaries

Correct Answer: C

12. The exposed milk in the container has turned _____

- A. sour
- B. putrid
- C. mouldy
- D. stale

Correct Answer: A,

13. Not all activists champion _____ causes.

- A. worthy
- B. real
- C. concrete
- D. favourable

Correct Answer: A

14. The Mayor gave a glowing _____ at the funeral of the city's only curator.

- A. citation
- B. statement
- C. tribute

D. commendation

Correct Answer: C

15. At the end of the _____, the National Anthem is played on our radio station.

A. programming

B. production

C. transition

D. transmission

Correct Answer: D

16. The defence counsel was unable to convince the _____ of John's innocence.

A. plaintiff

B. witness

C. panel

D. jury

Correct Answer: D

17. Unfortunately, corruption is the _____ of most African countries.

A. venom

B. bane

C. disaster

D. backbone

Correct Answer: B

18. The _____ results proved that the patient had hepatitis.

A. investigation

B. diagnosis

C. probe

D. test

Correct Answer: B

19. The new book has beautiful _____ which make it attractive.

A. illustrations

B. demonstrations

C. illuminations

D. compositions

Correct Answer: A

20. Their marriage was finally _____ after years of hostility.

A. cancelled

B. annulled

C. broken

D. separated

Correct Answer: C