

English:

1. He seems to know a lot about you! How long have you _____ him?
(A) known (B) knew (C) been knowing (D) know

2. Change the given direct sentence to indirect.

“Drive carefully!” Shyam said to me.

- (A) Ram said to me drive carefully. (B) Ram ordered me drive carefully.
(C) Ram told me to drive carefully. (D) None of these

3. The old man crossed the road _____.

- (A) coldly
(B) carefully
(C) urgently
(D) fluently



4. Choose the correct option to complete the dialogue.

Teacher to student : I thought you had been doing your homework regularly. Why are you still so irregular with your work?

- (A) I will let your parents know that you have failed this year.
(B) I'm afraid, at this rate, I'll have to give you a 'D' grade.
(C) I'm expecting you to earn a 'D' grade.
(D) I think you will do well this year.

5. Select the part of the sentence which has an error in it. If the sentence is correct, select "No Error":

- (A) I have tried (B) to meet him several times; (C) he isn't never at home. (D) No ERROR

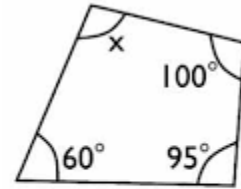
Mathematics and Aptitude:

6. Complete the given pattern. 9, 14, 24, 39, (?)

- (A) 44 (B) 49 (C) 54 (D) 59

7. For the quadrilateral shown here, what is the value of $\angle x$?

- (A) 53°
(B) 137°
(C) 85°
(D) 105°

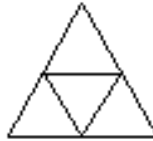


8. Find the remainder when $p(y) = y^3 + y^2 + 2y + 3$ is divided by $y + 2$.

- (A) 1 (B) 4 (C) -5 (D) 3

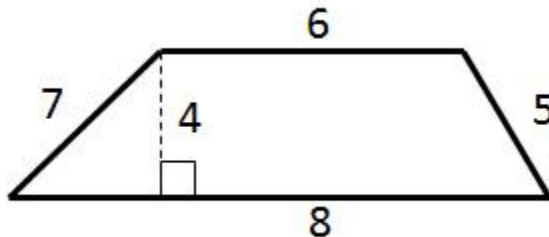
9. Count the number of triangles .

- (A) 3
(B) 4
(C) 5
(D) 6



10. Find the area of Trapezium

- (A) 28
(B) 38
(C) 26
(D) 13

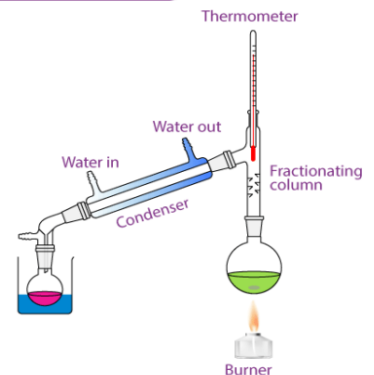


Science:

11. The process by which we can obtain various gases from the air is _____.

In this process, we distill the air at different temperatures. _____

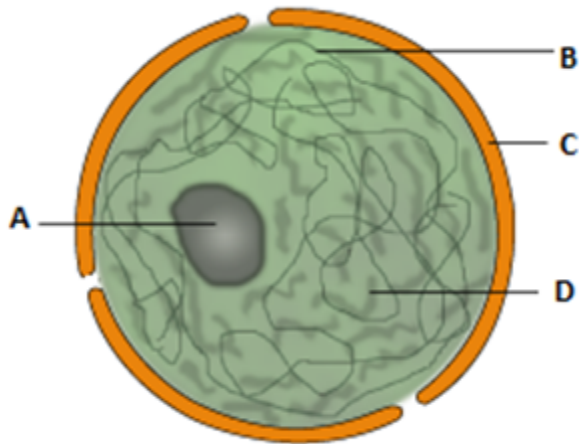
- (A) Distillation
(B) Fractional Distillation
(C) Hydrolysis
(D) Froth Flotation



12. A metal sphere of mass 28 kg has the same diameter as another sphere of mass 14 kg. Both spheres are dropped simultaneously from a tower. When they are 5 m above the ground, they have the same _____. (Neglect air resistance.)

- (A) Kinetic energy (B) Potential energy (C) Momentum (D) Acceleration

13. The nucleus controls all the activities of the cell and acts as a site of DNA material and protein synthesis. It is composed of some components which all together give the nucleus its functionality. Here is shown a figure of the nucleus with some of its components labeled as A, B, C and D. Can you name these components correctly?



- (A) A – Nucleons; B – Chromatin; C – Nuclear membrane; D – Nucleoplasm
(B) A – Nucleus; B – Chromatin; C – Nuclear membrane; D – Nucleoplasm
(C) A – Nucleolus; B – Chromatin; C – Nuclear membrane; D – Nucleoplasm
(D) A – Nucleolus; B – Chromatin; C – Nuclear membrane; D – Nuclear wall

14. When a body falls freely towards the earth, then its total energy

- (A) Decreases
(B) Increases
(C) First increases and then decreases
(D) Remains constant

15. Infrared is a low-frequency sound that is below 20 Hz of the frequency range. So, it can only be heard and emitted by those living organisms who are sensitive to frequency range below 20 Hz. Which of the following animal uses low frequency ?

- (A) Dog (B). Bat (C). Rhinoceros (D). Human beings

Social Science & General Knowledge

16. From which place in Jharkhand does the Tropic of Cancer pass through ?

- (A) Ormanjhi (B) Deoghar (C) Koderma (D) Giridih

17. Match the columns and select the correct option.

Column I

- (a) Year 1919
(b) Year 1942
(c) Year 1931
(d) Year 1949

Column II

- (i) INC session held at Karachi presided by Sardar Patel
(ii) Indian Constitution was adopted by the Assembly
(iii) Quit India Movement
(iv) Government of India Act

- (A) (a)-(ii), (b)-(iv), (c)-(i), (d)-(iii) (B) (a)-(iv), (b)-(iii), (c)-(i), (d)-(ii)
(C) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii) (D) (a)-(i), (b)-(ii), (c)-(iv), (d)-(iii)

18. The railway network expanded rapidly in India from the

- (a) 1820s
(b) 1830s
(c) 1850s
(d) 1860s

19. Which one of the following causes rainfall during winters in north-western part of India?

- (A) Cyclonic depression
(B) Retreating monsoon
(C) Western disturbances
(D) Southwest monsoon



20. Prime Minister Narendra Modi has become the first Indian Prime Minister to have been conferred with the **Grand Cross of the Legion of Honour**, France's highest civilian and military honour, by French President _____.

- (A) Rishi Sunak (B) Joe Biden
(C) Emmanuel Macron. (D) Angela Merkel



Computer

21. What does OCR stand for?

- (A) Optical Character Render
- (B) Optical Character Recognition
- (C) Operational Character Reader
- (D) Only Character Reader



22. Most widely used **Search Engine** used in China is _____ .

- (A) Google
- (B) Yahoo
- (C) Baidu
- (D) None of these

23. Identify the following.

- It acts as a central nervous system for other components of computer
- It manages and coordinates entire computer system
- It obtains instructions from a program stored in main memory, interprets instructions and issues signals that cause other units of system to execute them.

- (A) ALU
- (B) Memory Register
- (C) Control Unit
- (D) ROM

Answers:

- 1.A 2.C 3.B 4.B 5.C 6.D 7.D 8.C 9.C 10.A 11.B 12.D
13.C 14.D 15.C 16.A 17.B 18.D 19.C 20.C 21.B 22.C 23.C