BLUE PRINT 2019 - 20 SCIENE SA - 1

| CHA | CHAPTER | I | REM | EMBE | RING | | | UNDE | RSTAI | NDING | | | A | PPLYI | NG | | | | SKILI | | | TOT | AL |
|----------|-----------------------------------|---------|---------------|-----------|-----------|--------------|------|-----------|-----------|-------|------|-------------|-------|-----------|-----------|------|-------------|------------------|-----------|---------------|------|-------|-----|
| P TER | NAME | MC Q | S. A. 1 | S.A. 2 | L.A. 1 | L A. 2 | MCQ | S.A. 1 | S.A. 2 | L.A.I | LA.2 | M C Q | S.A.1 | S.A. 2 | L.A. 1 | LA,2 | M C Q | S.A. 1 | S.A. 2 | L. A. 1 | LA.2 | MARKS | QNS |
| 1 | MATTER IN OUR SURROUNDINGS | 1(1) | | | | | | | 1(1) | 2(1) | | | | | | | | | 2(1) | | | 6 | 4 |
| 2 | IS NATTER AROUND US PURE | 1(1) | | | | | | | 1(1) | | 3(1) | | | | | | | | | | | 5 | 3 |
| 5 | THE FUNDAMENTAK UNIT OF LIFE | 1(1) | | | | | | | | | | | | | | | | | | | 4(1) | 5 | 2 |
| 6 | TISSUES | | | | | | | | 4(1) * | | | | 1(1) | | | | | | | | | 5 | 2 |
| 8 | MOTION | | | 2(1) | | | 1(1) | | | | | | | | | | | | 2(1) | | | 5 | 3 |
| 9 | FORCE AND LAWS OF MOTION | | | | 3(1) | | 1(1) | | | | | | | 2(1) | | | | | | | | 6 | 3 |
| 10 | GRAVITATION | | | | | | | | 1(1) | | | | | 2(1) | | | | | | | | 3 | 2 |
| 15 | IMPROVEMENT IN FOOD RESOURCES. | | | | | | | | 2(1) | | | 1(1) | | 2(1) | | | | | | | | 5 | 3 |
| | TOTAL | | | | | | | | | | | | | | | | | | | | | 40 | 22 |

Roughly I have prepared if u want any changes you can do sir/madam

GOVERNMENT URDU HIGH SCHOOL YELLAGONDAPALYA

SUBJECT: SCIENCE 2019 – 20

SUMMATIVE ASSESMENT - 1

ANSWER THE FOLLOWING QUESTIONS:

1. Suggest a method to liquify atmospheric gases

A] Evaparation B] Sublimation c] Filteration d] Condensation.

- 2. Which of the following will show "Tyndall effect "
- A] Salt solution B] cupper sulphate solution C] Milk D] None of thse

3. Who discoved cell among the following.

A] Robert Kelvin B] Robert hooke C] Thomson D] Robert Mendal leve

4. Given an [Equation] expression for centripetal force.

- A] $f = mv^2 r$ B] $f = \frac{mv^2}{r}$ C] $m = \frac{fv^2}{r}$ D] $S = ut + \frac{1}{2} at^2$
- 5. What is the momentum of an object of mass 'm' moving with a velocity 'v'
- A] $\frac{1}{2}$ mv² B] mv². C] s = ut + at D] mv

6. Which method is commonly used for improving cattle breeds

- A] Dirct Breeding B] Cross Breeding C] InDirect breeding D] None of these.
- 7. Match the following:

| | Α | В | Answer |
|---|-------------------------|--------------------------------------|--------|
| 1 | Skin | [a]Cubiodal epithelium | |
| 2 | Bark of tree | [b]Connective tissue | |
| 3 | Bone | [c]Cork protective tissue | |
| 4 | Lining of kidney tubule | [d]Stratified Squamous epithelium | |
| | | [e] Complex permanent tissue | |

Answer the following :

- 8. What is the importance of universal law of gravitation?
- 9. Convert 300K temperature into the Celcius scale.
- 10. Which separation techniques will apply for the separtion of Wheat grains from husk.
- 11. Define the term "tissue"?

.12. A motor boat starting from rest on a lake accelerates in a straight line at constant rate of 3.0 ms ⁻²

For 8.0 s. How far does the boat travel during this time?

$1 \ge 6 = 6$

| 1 | V | 1 | 1 |
|---|---|---|-----|
| | Λ | 4 | = 4 |

2 X 8 = 16

Class : 9th

Marks:40

1 X 4 = 4

13. How do plants get nutrients?

14. Give reasons: [a] Water at room temperature is a liquid.

[b] An iron almirah is a solid at room temperature.

15. Write the formula to find the magnitude of the gravitation force between the earth and an object

On the surface of the earth.

16. If the moon attracts the Earth , Why does the earth not move towards the moon ?

17. Name A,B,C,D in the following:

diagram showing change in its state.

18. The odometer of a car reads 2000km .

At the strat of a trip and 2400km at the

End of the trip. If the trip took 8 h,

Calculate the average speed of the car in km h $^{-1}$ and ms $^{-1}$.

19. Draw alabelled diagram of neuron.





19.(a) Complete the table.



20. A stone of 1 Kg is thrown with a velocity of 20m s $^{-1}$. Across the frozen surface of

a lake and comes to rest after travelling a didtance of 50m. What is the force of friction between the stone and the ice?

21. Which of the following materials fall in the category of a 'pure substances' ?

[a] Ice [b] Milk [c] Iron [d] Hydrochloric acid [e] Calcum Oxide

[f] Mercury [g] Brick [h] Wood [i] Air.

22. Draw a neat diagram plant cell OR Animal cell and labell

- [a] Nuleus [b] Chloroplast
- [c] Cytoplasm
- [d] Mitochondriya

KEY ANSWERS

9TH SCIENCE SA – 1 GOVT URDU HIGH SCHOOL YELLAGONDAPALYA

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| | | [e] Complex permanent tissue | |

Answer the following :

8. What is the importance of universal law of gravitation?

Answer: The universal law of gravitation proves that every object in the universe attracts every

Other object.

9. Convert 300K temperature into the Celcius scale.

Answer: 300K = 300 – 273 = 27°C

10. Which separation techniques will apply for the separtion of

| 1 X | 6 | = 6 | |
|-----|---|-----|--|
| | | | |

| $\mathbf{I} \mathbf{\Lambda} 4 = 4$ | 1 | X | 4 | = | 4 |
|-------------------------------------|---|---|---|---|---|
|-------------------------------------|---|---|---|---|---|

1 X 4 = 4

Wheat grains from husk.

Answer : Winnowing.

11. Define the term "tissue"?

Answer: The group of cells similar in structure that work together to achieve a particular

Funtion forms a tissue. This group of cells has a common origin.

12. A motor boat starting from rest on a lake accelerates in a straight line at constant rate of 3.0 ms⁻²

For 8.0 s. How far does the boat travel during this time?

Answer: Here u = m/s

Using, $s = ut + \frac{1}{2} at^{2}$ $S = 0 \times 8 + \frac{1}{2} \times 3 \times 8^2 =$ $A = 3 \text{ ms}^{-2}$ t = 8 S $= 0 + \frac{1}{2} \times 3 \times 64 = 3 \times 32 = 96 \text{ m}$

13. How do plants get nutrients?

Answer: Plants require sixteen essential nutrients from nature for their growth and development.

All these nutrients are obtained form air, water, and soil. Soil is the major source of nutrients. thriteen

Of these nutrients are available from soil. The remaining 4 nutrients [carbon, oxygen, hydrogen and Nitrogen] remaining P, K, Ca, Mg, S, B, Zn, Cu, Mn, Fe, Cl, Molybdenum [Mo]

14. Give reasons: [a] Water at room temperature is a liquid.

[b] An iron almirah is a solid at room temperature.

Ans:[a] Water at room temperature is a liquid because it has fluidity and has volume but no definite shape.

[b] An iron almirah is solid at room temperature becausen it is rigid and has a defiite shape.

15. Write the formula to find the magnitude of the gravitation force between the earth and an object

On the surface of the earth.

Ans: Let M_E be the mass of the earth and M be the mass of an object on its surface If [R] is the radius of the earth then according to the universal law of gravitation, the gravitational force [F] acting between the

earth and the object is given by the relation. $\mathbf{F} = \frac{GM_Em}{R^2}$

16. If the moon attracts the Earth, Why does the earth not move towards the moon?

Ans: The Earth and Moon experiences equal gravitational forces from each other. However the mass

of the earth is much larger than the mass of the moon. Hence it accelerates at a rates lesser than the acceleration rate of the moon towards the Earth. For this reason, the earth does not move towards

the moon.

17. Name A,B,C,D in the following diagram showing change in its state. 18. The odometer of a car reads 2000km At the strat of a trip and 2400km at the



 $2 \times 8 = 16$



End of the trip. If the trip took 8 h, Calculate the average speed of the car In km h⁻¹ and ms⁻¹. Solution: Distance covered by the car, S = 2400km - 2000km = 400m Time elapsed, t = 8h Average speed of the car is, $Vav = \frac{s}{t} = \frac{400}{8} = 50 \text{ km h}^{-1}$. 19. Draw alabelled diagram of neuron. OR

19.(a) Complete the table. [Parenchyma, Sclerenchyma , Phloem]



20. A stone of 1 Kg is thrown with a velocity of 20m s $^{-1}$. Across the frozen surface of

a lake and comes to rest after travelling a didtance of 50m. What is the force of friction between the stone

and the ice?

Solution: initial velcoity of the stone u = 20 m/s

Final velocity of the stone, v = 0 m/s

Distance covered by the stone , s = 50m

According to third equation of motion

 $v^2 = u^2 + 2as$, where Acceleration, a

$$(0)^2 = (20)^2 + 2x a x 50$$

400 + 100a or 100a = -400

$$a=\frac{-400}{100}$$

21. Which of the following materials fall in the category of a 'pure substances' ?
[a] Ice [b] Milk [c] Iron [d] Hydrochloric acid [e] Calcum Oxide
[f] Mercury [g] Brick [h] Wood [i] Air.
Ans: [a] [c] [d] [e] and [f] are pure subtances.

A = MELTING, B = BIOLING, C = CONDENSATIONS,

D = SOLIDIFICATION **E** = SUBLIMATION **F** = SUBLIMATION.



$$1 X 4 = 4$$

3 X 2 = 6

22. Draw a neat diagram plant cell OR Animal cell

And labell

[a] Nuleus [b] Chloroplast [c] Cytoplasm

[d] Mitochondriya

