

Cantonment Public School & College, Saidpur

Home Test -1/ 2020

Class: VIII (E.V)

Subject: Science (MCQ Part)

Time: 30 Minute

Full Marks: 30

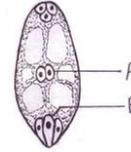
[Answer all questions, each questions carries 1 mark]

- Who is the father of genetics?
A) Robert Hook b) Calvin
c) Aristotle d) Mendel
- Hypogeal germination takes place in-
a) Paddy b) Pumpkin
c) Castor d) Tamarind
- Mitosis does not take place in-
i. nerve cells of animals
ii. red blood cells of mammals
iii. permanent plant tissue
Which one is correct?
a) i & ii b) i & iii c) ii & iii d) i, ii & iii
- Micropile is a –
a) tiny pore b) tiny gland
c) tiny bud d) tiny embryo
- Which is the example of aggregate fruit?
a) Mango b) Pineapple
c) Jackfruit d) Akanda
- Which is the main excretory organ of human body?
a) Liver b) Kidney c) Lung d) Skin
Look the following stem and answer question no 7 & 8.

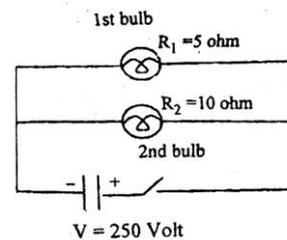
$$\boxed{+} \quad \frac{10 \text{ Coulomb}}{5 \text{ Second}} \quad \boxed{-}$$

- Which of the following happens in case of the figure.
a) Proton goes from A to B
b) Proton goes from B to A
c) Electron goes from A to B
d) Electron goes from B to A
- How much electricity does flow in the circuit?
a) 0.5 Ampere b) 2 Ampere
c) 2.5 Ampere d) 50 Ampere
- Which chemical substance is exists in antacid?
a) MgSO_4 b) MgCl_2
c) MgCO_3 d) Mg(OH)_2
- From which of the reactions given below does a diver gets his oxygen?
a) CaCO_3 b) CuO_3
c) KClO_3 d) MnO_2
- What is the color of FeS ?
a) Deep blue b) Deep gray

- Light yellow d) White
From the figure below answer the questions 12 & 13.



- What is part A?
a) Ovule b) Egg
c) Secondary nucleus d) Antipodal cell
- Part B-
i. Takes part in the formation of embryo
ii. Produces endosperm
iii. Forms seed
Which of the following is correct?
a) i b) ii c) iii d) i, ii & iii
- Which organ acts as filter?
a) Kidney b) Liver
c) Lung d). Stomach
- Which one is the largest whorl of a flower?
a) stamen b) Stigma
c) Petal d) Thalamus
- What will be the fuse for a DVD player?
a) 5 ampere b) 10 ampere
c) 15 ampere d) 20 ampere
Follow the following diagram and answer the question no 17-18



- What will be the flow of current through first bulb, if the second bulb is damaged?
a) 5 Ampere b) 25 Ampere
c) 50 Ampere d) 250 Ampere
- If two bulbs connect through series connection-
i. decrease the flow of current
ii. intensity of light will be correct
iii. if one connection damages another one will also be damaged

- Which one is correct?
 a) i & ii b) i & iii
 c) ii & iii d) i, ii & iii
19. Features of rhizome-
 i. axial bud ii. parallel to ground
 iii. turgid
 Which one is correct?
 a) i & ii b) i & iii
 c) ii & iii d) i, ii & iii
20. Which one of the following is an example of sexual reproduction?
 a) Paddy b) Potato
 c) Turmeric d) Pineapple
21. Co-ordination in plants includes-
 i. dormance ii. locomotion
 iii. germination
 Which one is correct?
 a). i & ii b) i & iii
 c) ii & iii d. i, ii & iii
22. Thallamus and hypothalamus regulate-
 a) smelling b) hearing
 c) heart beat d) anger
23. Lime water (A) + Litmus paper (B) → Litmus with changed colour (C).
 In the reaction-
 i. Formula of A is $\text{Ca}(\text{OH})_2$
 ii. B is red coloured
 iii. C is blue coloured
 Which one is correct?
 a) i & ii b) i & iii
 c) ii & iii d) i, ii & iii
24. H_2CO_3 is a mineral acid. Because it is-
 i. Strong, So corrosive
 ii. Produced from inorgan substance
 iii. Not produced in living body
 Which one is correct?
 a) i & ii b) i & iii
 c) ii & iii d) i, ii & iii
25. Flower having now nectar gland-
 i) paddy ii) sesame iii) wheat
 Which one is correct?
 a) i & ii b) i & iii c) ii & iii d) i, ii & iii
26. Where do pollen grains grow?
 a) Anther b) Stigma
 c) Ovary d) Thatamus
27. Which one of the following is a short day plant?
 a) Rhododendron b) Chrysanthemum
 c) Rosemerry d) Strawberry
28. Who invented auxin?
 a) Charles Darwin b) Theophrustus
 c) Haragovinda Khorana
 d) Louis Pasteru
- Read the following stem carefully and answer question no 29-30
 An excellent illumination had made at the wedding ceremony of Masum's sister. All the bulbs suddenly had blown out during the ongoing of the ceremony following a bulb being disordered.
29. What kind of electrical connection was made in the said ceremony?
 i) Series connection ii) Parallel connection
 iii) Bulbs are connected one after another
 Which one is correct?
 a) i & ii b) i & iii c) ii & iii d) i, ii & iii
30. How much suitable is the said connection for house electrification?
 a) Convenient b) Inconvenient
 c) Dangerous d) Best

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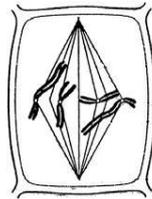
Subject: General Science (Creative)

Time: 2.30 hours

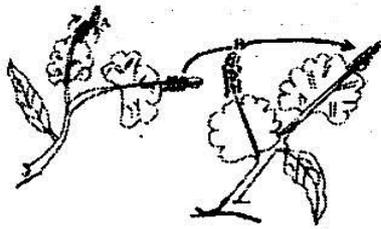
Full Marks: 70

[Figure in the margin indicates full marks. Observe the stem carefully. Answer any seven of the following questions]

- Cell in the structural and functional unit of living organism. Different organ consists of different cells. Our nervous system consists of one of cell like this.
 - What is florigen? 1
 - What do you mean by reflex action? 2
 - Draw labeled diagram of the structural unit of nervous system mentioned in stem? 3
 - Structure and function of the unit of nervous system in human life is immense- Analyze it. 4
- Three years ago Raju had planted a mango seedling in his garden. At present it grows enough to a large mango tree. When he asked the reason of plants growth then his father replied this is due to cell division. He also mentioned the importance of this cell division.
 - What is metakinesis? 1
 - What is the relation between centromere and spindle apparatus. 2
 - Describe the largest phase of cell division with figure mentioned in stem. 3
 - Analyze the importance of cell division mentioned in stem. 4
- Observe the figure and answer the question.

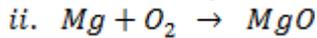
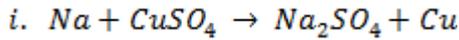


- What is metakinesis? 1
 - What do you mean by preparatory phase of cell division? 2
 - Draw labeled diagram of next two phase of figure mentioned stem. 3
 - Write the differences of cell division which is mention in stem and meiosis cell division. 4
- Observe the figure and answer the following questions.

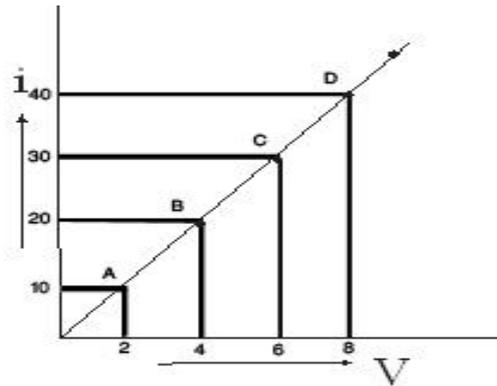


- What is the precondition of fertilization? 1
 - What do you mean by "all vegetables are fruit but all fruits are not vegetable"? 2
 - Explain the pollination of fig (A) in the stem. 3
 - Agent is essential for which type of pollination of the figure? Explain with logic. 4
- Observe the reactions and answer the following questions:
 - $\text{Fe} + \text{CuSO}_4 \longrightarrow$
 - $\text{KClO}_3 \xrightarrow{\text{Heat}}$
 - What is dry cell? 1
 - Why do we take antacid in acidity of our stomach? 2
 - Complete the reaction no. (1) of stem and explain the type of reaction it is? 3
 - Analyze the electrolysis of aqueous solution which is produced in reaction (ii) of stem. 4

6. Observe the reactions and answer the following questions:



- a. How many atoms are present in compound $Na_2S_2O_3$? 1
 - b. "All synthesis reaction is addition but all addition reaction is not synthesis" -Why? 2
 - c. Atom cannot be create or destroy in chemical reaction-Explain this speech in the view of reaction (i) 3
 - d. Reaction (ii) Support which type of reactions? Explain. 4
7. Reza connected two 100 watt bulbs in series and connected freeze and a fan in parallel connection.
- a. What is flow of current? 1
 - b. What is meant by 5 ampere fuse? 2
 - c. Draw a parallel circuit with the instruments of Reza. 3
 - d. Which of the two circuits is more convenient? Give your opinion after comparative discussion. 4
8. Observe the figure and answer the following questions.



- a. What is charge? 1
 - b. What do you mean by reflex action? 2
 - c. Find the resistance at the point 'D' of above mentioned figure. 3
 - d. If voltage difference increased electric current will also increase. Justify the statement by above data. 4
9. Observe the stem and answer the following questions.

A	B
NaOH	NaCl

- a. What is radicle? 1
 - b. Why is CH_4 not an acid? Explain briefly. 2
 - c. How will you identify the compound 'B' of stem. 3
 - d. Compound 'A' of stem exhibits both the characteristics of base and alkali. Analyze with logic. 4
10. 'A' is a chemical compound which is used in IPS, battery and also i fertilizer and iron industry. This compound makes blue litmus to red.
- a. What is indicator? 1
 - b. What do you mean by all alkalis are base but all bases are not alkali? 2
 - c. Write down the properties of the compound mentioned in stem. 3
 - d. Write with equation, what will happen if the compound of the stem in mixed with $Ca(OH)_2$. 4
11. At the time of sewing a shirt, suddenly the needle pricks in the finger of Riya. She withdraws her hand immediately as a consequence of immediate action of nervous system.
- a. What is hormone? 1
 - b. Why coordination is important in living organism? 2
 - c. Draw labeled diagram of the structural and functional unit of the above mentioned system. 3
 - d. Explain the action which is responsible for withdraws Riya's hand. 4