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| Roll No.        |  |
| Name            |  |
| Class & Section |  |

**APEEJAY COMMON ANNUAL EXAMINATION, 2019-20**

**SCIENCE**

**Time Allowed : 3 Hrs.**

**Class – VIII**

**Maximum Marks : 80**

**General Instructions :**

- (1) *This question paper consists of 34 questions. All questions are compulsory.*
- (2) *Marks for each question are indicated against it.*
- (3) *Attempt all the questions in proper sequence.*
- (4) *Draw neat labelled diagram wherever required.*

**Section-A**

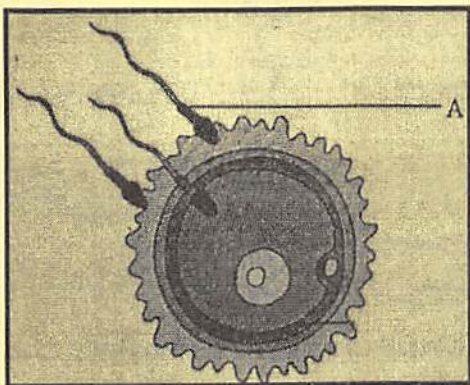
**Answer the following questions briefly :-**

1. Name two micro-organisms that live in symbiotic association in lichens. (1×10=10)
2. Name the term used for the start of reproductive phase in females.
3. 'Human beings are called viviparous organisms' why?
4. Name a disease caused by a protozoan and spread by an insect.
5. Name the force which is responsible when a boy falls down by stepping on a banana peel.
6. Name the device used to protect buildings from lightning.
7. Name the brightest planet of the solar system
8. Give two examples of exhaustible natural resources.
9. Give reason why a fire caused by oil cannot be put off by using water?
10. Name two metals which are soft enough to be cut with a knife.

**Section-B**

11. **Give reasons for the following :** (2)
  - (a) Fresh milk is boiled before consumption while processed milk stored in packets can be consumed without boiling.

- (b) Raw vegetables and fruits are kept in refrigerators whereas jams and pickles can be kept outside.
12. The size the cells of an organism has no relation with the size of its body. Do you agree? Give reasons for your answer. (2)
13. Observe the figure given below and answer the questions that follows : (2)



- (a) Label the part marked as A.
- (b) Identify the process.
- (c) What happens during this process and what is formed?
14. Give reason for the following : (2)
- (a) Spikes are provided in the shoes of players and athletes.
- (b) Boats and aeroplanes have a streamlined shape.
15. What is earthing? What is the application of earthing? (2)
16. Explain why a charged balloon is repelled by another charged balloon, whereas uncharged balloon is attracted by a charged balloon. (2)
17. Write two differences between static friction and sliding friction. (2)
18. Ram stored copper sulphate solution in a container made of iron. What changes would he observe after some time? Write the word equation involved. (2)
19. Explain refining of petroleum. Write one important use of any two fractions obtained. (2)
20. Shyam took a piece of burning charcoal and collected the gas evolved in a test tube. (2)
- (a) How will he find the nature of the gas?
- (b) Write down all the word equations involved.

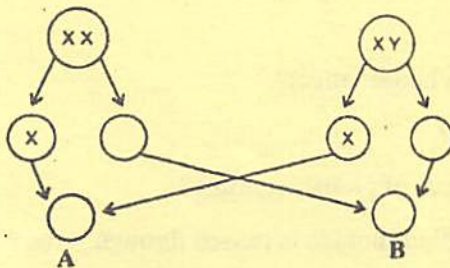


### Section-C

21. Name the secretion and any one important role played by the following endocrine glands. (3)

- (a) Pancreas (b) Testis  
(c) Adrenal gland

22. Draw the figure given below. Fill the blank circles and identify the sex of the child A and B. (3)



23. Draw a neat diagram of a plant cell, name and label the following parts in it. (3)

- (a) provides protection  
(b) provides the green colour to the leaf  
(c) has chromosomes

24. (a) What is the cause of friction? (3)

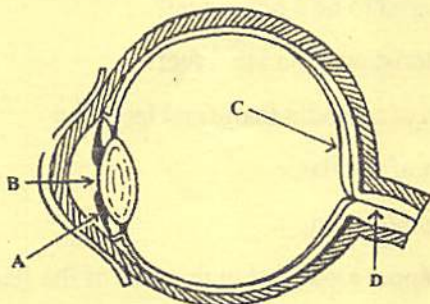
(b) How lubricants help to reduce friction?

25. (a) State the laws of reflection of light. (3)

(b) What is multiple reflection? Name one device based on this phenomenon.

26. Observe the following diagram. (3)

- (a) Name the parts labelled as A, B, C and D  
(b) Write the functions of the parts marked as A and C.  
(c) Name the spot in the eye where no vision is possible.



27. Give reasons : (3)
- (a) Camphor burns with a flame on the other hand charcoal glows.
  - (b) It is difficult to burn a heap of green leaves but dry leaves catch fire easily.
  - (c) Carbon dioxide is considered as an excellent fire extinguisher.
28. (a) Name the different products obtained on heating coal in absence of air? Write uses of any two of them.
- (b) What is carbonization? (3)
29. (a) What is meant by 'green house' effect? (3)
- (b) What is global warming?
- (c) What are the consequences of global warming?
30. (a) What happens when sulphur dioxide is passed through water? (3)
- (b) What happens when a copper vessel is exposed to moist air for long? Write a word equation of the reaction which takes place.

#### Section-D

31. Draw the diagram of human female reproductive system. Name and label the followings parts in it. (5)
- (a) The part which produces female gametes.
  - (b) The part where development of the baby takes place.
  - (c) The part where the process of fertilization takes place.
32. (a) What are seismic zones? (5)
- (b) Explain the arrangement of stars in the Orion constellation
- (c) What is the difference between meteor and meteorite?
33. (a) Why is CNG considered to be a better fuel? (5)
- (b) What are the characteristics of an ideal fuel?
- (c) Draw a neat diagram of a candle flame and label the
- (i) The hottest part of the flame
  - (ii) Region of no combustion
  - (iii) Unburnt wax vapors are found in this part of the flame.



(d) In an experiment, 5.6 kg of fuel was burnt completely. The heat produced was 22400 kJ. Calculate the calorific value of the fuel.

34. (a) Complete the following table by writing the sources and the effect of the following pollutants. (5)

| Air Pollutants  | Sources | Effects |
|-----------------|---------|---------|
| Carbon monoxide |         |         |
| Sulphur dioxide |         |         |
| CFC 's          |         |         |

(b) Fertilizers are good for crops but cause pollution of soil and water. Explain giving reasons.