

10.01.2020  
STD: X (AN)

EVERWIN VIDHYASHRAM  
REVISION EXAM -II  
SCIENCE-II  
SECTION-A

(GROUP A)  
Time:1½hrs  
Marks:50

I. For question numbers 1 to 3, two statements are given-one labeled Assertion [A] and the other labeled Reason [R]. Select the correct answer to these questions from the codes a, b, c and d as given below. 3x1=3

- a) Both [A] and [R] are true and [R] is the correct explanation of [A]  
b) Both [A] and [R] are true but [R] is not the correct explanation of [A].  
c) [A] is false but [R] is true      d) Both [A] and [R] are false

1. Assertion [A]: Zinc is used in the galvanisation of iron.

Reason [R]: Its coating on iron articles increase their life by protecting them from rusting.

2. Assertion and Reason:

Assertion [A]: Virtual images are always erect

Reason [R]: Virtual images are formed by diverging lens only.

- a) Both [A] and [R] are true and [R] is the correct explanation of [A]  
b) Both [A] and [R] are true but [R] is not the correct explanation of [A].  
c)[A] is true but [R] is false      d)[A] is false but [R] is true.

3. Assertion[A] and Reason [R]:

Assertion: Offspring formed by asexual reproduction exhibit remarkable similarity.

Reason: In asexual reproduction, the younger ones are genetically identical to the parents and another young ones as they possess exact copies of DNA.

II. Fill in the blanks: 6x1=6

4. Bronze is an alloy of copper and -----.  
5. An example of a metal which can be cut with knife -----  
6. The mirror used in head light of car is ----- mirror  
7. Biogas contains ----- % Methane .  
8. The plant that reproduces vegetatively by leaf is -----  
9. Organisms with similar looking organs but different origin-----

III. Choose the correct answer: 7x1=7

10. The only metal that is liquid at room temperature is

- a)Mercury      b)Sodium      c)Zinc      d)Tungsten

11. Metals that are good conductors of electricity are

- a)Copper and Silver      b)Lead and Mercury  
c) Carbon and Tin      d) Iron and Chromium

12. To work properly, wind-electric generators need wind speeds of at least about

- a)1.5 Km/h      b)15 Km/h      c)150 Km/h      d)1500 Km/h

13. Which part of our eye controls size of pupil?

- a)Ciliary muscles      b)Iris      c)Cornea      d)Crystalline lens

14. Vegetative propagation refers to formation of new plant from -----

- a)Stem, root and flowers      b)Stem, root and leaves  
c)Stem, flowers and fruits      d)Stem, laves and flowers

15. In human males, the testes lie in the scrotum, because it helps in the -----

- a)Process of fusion      b)Formation of sperm  
c)Easy transfer of gametes      d)All the above

16. Origin of new species from pre-existing one is called -----

- a)Natural selection      b)Speciation  
c)Genetic drift      d)None

IV. Answer in one word or one sentence:

8x1=8

17. What is thermit reaction?

18. What are amphoteric oxides? Give an example.

19. What is Tyndall effect?

20. Write the full form of CNG.

21. What is meant by pollination?

22. Mention the mode of reproduction used by: i) Amoeba      ii)Planaria

23. Name the information sources for making proteins in the cells.

24. Why Sodium is stored in kerosene oil?

#### SECTION-B

V. Answer in brief:

8x3=24

25. Write the steps involved in the extraction of zinc metal from its ores.

26. Explain the electrolytic refining of copper with a neat labelled diagram.

27. a) State the laws of refraction

b) Light enters from air into glass having refractive index 1.50. What is the speed of light in glass? The speed of light in vacuum is  $3 \times 10^8$  m/s.

28. What is a rainbow? Draw a labelled diagram to show the formation of a rainbow.

29. A doctor has prescribed a corrective lens of power +1.5D. Find the focal length of the lens. Is the prescribed lens diverging or converging?

30. a) Define reproduction.

b) Explain about the types of reproduction in organism. (OR)

a) Why did mendel choose garden pea for his experiments? Write two reasons.

b)List two contrasting visible characters of garden pea, Mendel used for his experiment.

31. Define the following processes of asexual reproduction:

- i)Spore formation      ii)Regeneration      iii) Multiple fission

32. Name the parts A,B and C shown in the following diagram and state one function of each.

