



ANANDALAYA

Weekly Test 3

Class X

Subject: SCIENCE

Date : 27/10/2015

M.M: 20

Time: 1 Hour

SECTION A

1. Which allotrope of carbon conducts electricity and why? 1
2. Name two organisms that reproduce through budding. 1
3. State the laws of reflection 2
4. A concave mirror has focal length 15 cm. An object is kept at a distance of 20 cm. Draw a ray diagram for the same. 2
5. Name two properties of carbon which are responsible for the formation of such a large number of organic compounds. 2
6. During sexual reproduction, DNA copying allows similarities in copies but the copies are not identical. How does this offer scope for evolution? 2
7. Write the electron dot structure of following molecules: 3
(a) CO_2 , (b) H_2 , (c) Cl_2
8. Draw the diagram showing germination of pollen on stigma. Label four important parts. 3

SECTION B

9. The position of a real image coincides with the position of the object. What could be the probable position of object? 1
a) between pole and F b) at F
c) between F and C d) at C
10. An erect and virtual image of same size as the object is formed by a mirror. What is the nature of the mirror? 1
a) concave mirror b) convex mirror
c) plane mirror d) no mirror forms such image
11. Ethane with molecular formula C_2H_6 has : 1
(a) 6 covalent bonds (a) 7 covalent bonds
(b) 8 covalent bonds (c) 9 covalent bonds
12. Which organism undergoes binary fission as an asexual mode of reproduction? Choose the correct option. 1
(a) Hydra (b) Amoeba
(c) Star fish (d) Sponge