

KA

COMMON SECOND MID-TERM TEST - 2019

Standard X

Reg.No. :

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Time: 1.30 hours.

SCIENCE

Marks: 50

Part - I

I. Choose the correct answer:

8 x 1 = 8

1. The velocity of sound in air at a particular temperature is 330 ms^{-1} . What will be its value when temperature is doubled and the pressure is halved?
 - a) 330 ms^{-1}
 - b) 165 ms^{-1}
 - c) $330 \times \sqrt{2} \text{ ms}^{-1}$
 - d) $320 \times \sqrt{2} \text{ ms}^{-1}$
2. _____ has the greatest penetration power.
 - a) α ray
 - b) β ray
 - c) γ ray
 - d) X ray
3. $\text{H}_{2(g)} + \text{Cl}_{2(g)} \rightarrow 2\text{HCl}_{(g)}$ is a
 - a) decomposition reaction
 - b) combination reaction
 - c) single displacement reaction
 - d) double displacement reaction
4. The molecular formula of an open chain organic compound is C_3H_6 . The class of the compound
 - a) alkane
 - b) alkene
 - c) alkyne
 - d) alcohol
5. Paleontologists deals with
 - a) embryological evidences
 - b) fossil evidences
 - c) vestigial organ evidences
 - d) all the above
6. DNA finger printing is based on the principle of identifying _____ sequences of DNA.
 - a) single strand
 - b) mutated
 - c) polymorphic
 - d) repetitive
7. Plants or animals expressing a foreign gene is called _____.
 - a) transgenic organism
 - b) clone
 - c) non transgenic organism
 - d) none
8. Coronary heart disease is due to
 - a) streptococci bacteria
 - b) inflammation of pericardium
 - c) weakening of heart valves
 - d) insufficient blood supply to heart muscles

Part - II

II. Answer any 4 questions: (Ques.No.14 is compulsory)

4 x 2 = 8

9. Why does sound travel faster on a rainy day than on a dry day?
10. Give the function of control rods in a nuclear reactor.
11. Differentiate reversible and irreversible reactions..
12. Why is Archaeopteryx considered to be a connecting link?
13. What is adult onset diabetes?
14. A person who is sitting at a distance of 400 m from a source of sound is listening to a sound of 600 Hz. Find the time period between successive compressions from the source.

