7. COORDINATION IN LIFE PROCESS

| 1. 3:2:1:2 the ratio of our dentition. Here 1 Represents | | | |
|--|--|--|--|
| 2. Large protein molecule are broken down in of digestive track | | | |
| 3is the strong acid which is secreted during digestion | | | |
| 4. Olfactory receptors present in trigger signals to brain | | | |
| 5. P _H of saliva is in nature | | | |
| 6. Fill in the blanks with suitable words given below | | | |
| Fluctuations of hormone (i) levels results in sensation of hunger | | | |
| and motivation of consuming food. When you feel your stomach is full and | | | |
| there is no need of food any more. Another hormone (ii) that gets | | | |
| secreted suppresses hunger. When we take food into the mouth it has to be | | | |
| chewed thoroughly. For this purpose the (iii) Muscles help in chewing | | | |
| actions, while the (iv) muscles of the Jaw moves the Jaw up, down, | | | |
| forward and backward during food mastication . The (v) nerve controls | | | |
| the muscles of the jaw under the action of (vi) nervous system saliva | | | |
| are released by the salivary glands moistens the food to make chewing and | | | |
| swallowing easier. The salivary (vii) in the saliva breaks down the | | | |
| starch into sugar. As a result of chewing the food is transported into the | | | |
| oesophagus by the action of swallowing which is coordinated by the | | | |
| swallowing centre in the (viii) and the (ix) the tongue which is | | | |
| gustatory recognizes the taste and (x) nerve plays an important role in | | | |
| sensation of taste. | | | |

Choose the right ones

- (i)Leptin, Ghrelin, Gastrin, Secretin
- (ii)Ghrelin, Leptin, Secretin, Gastrin
- (iii)Deep muscles, surface muscles, circular muscles, striated muscles
- (iv)Surface muscles, deep muscles, neck muscles, long muscle.

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| (v)Fifth cranial nerve, second cranial nerve, fifth facial nerve, spinal |
|--|
| nerve. |
| (vi)Central nervous system, peripheral nervous system, autonomous |
| nervous system. |
| (vii)Lipase, Sucrose, Galactose, Amylase |
| (viii)Medulla oblongata, cerebrum, brain stem, 7 th cranial nerve. |
| (ix)Pons varolii, brain stem, medulla oblongata, mid brain. |
| (x)6 th Cranial nerve, 5 th cranial nerve, 10 th cranial nerve, optic nerve |
| 7. Ghrelin is secreted from |
| 8 play a major role in carrying the hunger pangs. |
| 9.Increase of ghrelin levels result in |
| 10. The sense of taste is carried to the brain for analysis only after |
| 11. The food in the mouth has been broken down in small pieces to |
| 12.Teeth helps in the process of |
| 13. The teeth which have sharp and pointed edges are |
| 14 have blunt and nearly flat surface |
| 15 muscles help in the movement of jaws |
| 16 muscles help in pushing the food into the mouth |
| 17.Starch is broken down into maltose and dextrose by the action of |
| |
| 18.Swallowing is coordinated by |
| 19.P _H beyond 7 is known as |
| 20.P _H below 7 is known as |
| 21.P _H 7 is known as |
| 22litres of saliva is secreted daily. |
| 23acts as lubricant in the oesophagus |
| 24.Bleaching and burning sensation of stomach is due to |
| 25.Partially digested food in stomach |

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| 26.Reverse peristalsis ca | n be seen in | | | |
|--|------------------|---------------------------------|--|--|
| 27. The time taken for complete digestion is | | | | |
| 28countess the action of acid in stomach | | | | |
| 29increase the area of absorption in the intestine. | | | | |
| 30. Chyme initiates the production of hormones like | | | | |
| 31.The last part of the alimentary canal | | | | |
| 32.The dental formula of man is | | | | |
| | | | | |
| Key | | | | |
| 1) Canier | | 2) Stomach | | |
| 3) HCl | | 4) Nose | | |
| 5) Alkaline | | | | |
| 6. i) Ghrelin | ii) Leptin | iii) Circular muscles | | |
| iv) Surface muscles | v) Cranial | vi) Autonomous nervous system | | |
| vii) Amylase | viii) Brain stem | ix) Medulla oblongata | | |
| x) Olfactory Choose in right ones Ans: - 2,6,7,9,10 | | | | |
| 7) The wall of the stomach | | 8) Diencephalon and vagus nerve | | |
| 9) Sensation of hunger and motivation to consume food. | | | | |
| 10) The dissolved food touches the taste bud | | | | |
| 11) Increase the area for action of enzymes | | | | |
| 12) Mastication | | 13) Canines | | |
| 14) Molars and premolars | | 15) Surface | | |
| 16) Circular | | 17) Ptyalin | | |
| 18) Medulla oblongata and brain stem | | 19) Alkaline | | |
| 20) Acidic | | 21) neutral | | |
| 22)1 to 1.5 liters | | 23) Mucus | | |
| 24) Secretion of HCl | | 25) Chyme | | |
| 26) Ruminants | | 27) 30-40 hrs | | |

28) Mucus

29) Villi

30) Secretion, Cholecystokinin

31) Rectum

32) 2123\2123