

**Divisional Public School & College Sahiwal (Sub Campus Chichawatni)**

Time: 10 min

3rd Revision Test -2020-21 XI- Biology-III

Objective.

Marks:10

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Roll No: \_\_\_\_\_

Note: Cutting, Overwriting, use of ink remover & lead pencil is not allowed.

**Q.1: Choose the correct option.**

**10**

- (i) Maximum capacity of lungs is  
(A) 1.5 lit (B) 5 lit (C) 3.5 lit (D) All of these (A) (B) (C) (D)
- (ii) myoglobin is present in  
(A) RBCs (B) Muscles (C) Heart (D) none of these (A) (B) (C) (D)
- (iii) Accepted model of Cell membrane structure is  
(A) unit membrane (B) Fluid mosaic Model (C) sandwich model (D) all of these (A) (B) (C) (D)
- (iv) Ribosomes are present in  
(A) eukaryotic cell (B) prokaryotic cell (C) both cells (D) none of them (A) (B) (C) (D)
- (v) Membrane of vacuole is  
(A) Chloroplast (B) tonoplast (C) leucoplast (D) hydroplast (A) (B) (C) (D)
- (vi) Which is not belonged to vertebrates  
(A) Mammals (B) Aves (C) Pices (D) insects (A) (B) (C) (D)
- (vii) Salivary glands are present at how many places  
(A) 4 (B) 3 (C) 2 (D) 1 (A) (B) (C) (D)
- (viii) Most modified respiratory system is in  
(A) Man (B) bacteria (C) protozoa (D) Birds (A) (B) (C) (D)
- (ix) Places of digestion in man are  
(A) 2 (B) 3 (C) 4 (D) Many (A) (B) (C) (D)
- (x) Largest part of digestive system is  
(A) ileum (B) colon (C) jejunum (D) stomach (A) (B) (C) (D)

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**Q.2. Write down short answers**

(15×2=30)

- (i). What is RDS? (ii). What is role of epiglottis  
(iii). What are properties of respiratory surface (iv). Compare air and water as respiratory medium  
(v). What are chromosomes (vi). Which cell has more than one nucleus and why  
(vii). What are lysosomal enzymes (viii). What is LSU and SSU in ribosomes  
(ix). Give role of Mg ions in ribosomes (x). What are the classes of vertebrates  
(xi). What are Mammary Glands (xii). Names of some phylums of invertebrates  
(xiii). What are sphincters (xiv). What is colon  
(xv). What is Appendix?

**Long Questions**

(2×5=10)

- 1 Explain Absorption of food in detail.  
2 Explain the structure of Nucleus in detail.

**Divisional Public School & College Sahiwal (Sub Campus Chichawatni)**

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3rd Revision Test -2020-21 XI- Mathematics-III

Objective.

Marks:10

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Roll No: \_\_\_\_\_

**Note: Cutting, Overwriting, use of ink remover & lead pencil is not allowed.**

**Q.1. Choose the correct option**

**(10×1=10)**

1. A right angle is equal to:  
(A) 90'' (B) 90' (C) 90o (D) 60o
2. In a right D ABC, where Ð B = , , then m Ð A is equal to  
(A) 30° (B) 45° (C) 60° (D) 90°
3. In fourth quadrant sec q is always -----, where a is in standard position:  
(A) Positive (B) Negative (C) Zero (D) Positive
4. Value of sec 30 = -----  
(A)  $\sqrt{3}/2$  (B)  $1/\sqrt{2}$  (C)  $2/\sqrt{3}$  (D) 2
5.  $\sec(-96^{\circ}) =$  -----  
(A) 0 (B) 2 (C) -2 (D)  $\sqrt{2}$
6. Range of tanx is equal to:  
(A) Q (B) R (C) Z (D) N
7. Range of sin2x is:  
(A) [-1,1] (B) [-2,2] (C) (-1,1) (D) (-2,2)
8. In any triangle ABC,  $c \cos A + a \cos C =$ .....  
(A) a (B) b (C) c (D) 0
9. If  $q = 150^{\circ}$ , then its reference angle is:  
(A) 30° (B) 15° (C) 60° (D) 40°
10.  $\cos^3 q =$  -----  
(A)  $4 \cos^3 \theta - 3 \cos \theta$  (B)  $4 \sin^3 \theta - 3 \cos \theta$  (C)  $3 \sin \theta - 4 \cos^3 \theta$  (D)  $3 \sin \theta - 4 \sin^3 \theta$

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**Q.2. Write down short answers.**

**(15×2=30)**

1. Prove that  $\sec^2 \theta - \operatorname{cosec}^2 \theta = \tan^2 \theta - \cot^2 \theta$
2. What is the length of the arc intercepted on a circle of radius 14 cm by the arms of central angle of 45°?
3. Find the period of  $\cot 8x$ .
4. Find the solution of the equation  $\operatorname{cosec} \theta = 2$  which lies in  $[0, 2\pi]$
5. Express the following sexagesimal measures of angles in radians:  $154^{\circ} 20'$
6. Find the solution of the Equation  $\sec x = -2$  : which lies in  $[0, 2\pi]$  .
7. Find the period of  $\cos 2x$
8. Find the value of  $\theta$ , satisfying the equation  $3 \tan^2 \theta + 2 \tan \theta + 2\sqrt{3} \tan \theta + 1 = 0$
9. Find the value of  $\cos 105^{\circ}$
10. Prove  $\cos 3\alpha = 4 \cos^3 \alpha - 3 \cos \alpha$
11. Solve the right triangle ABC in which  $\gamma = 90^{\circ}$ ,  $a = 3.28$ ,  $b = 5.74$
12. If  $\alpha, \beta, \gamma$  are angles of a triangle ABC, then prove that  $\tan(\alpha + \beta) + \tan \gamma = 0$
13. Show that  $\cos^{-1}(-x) = \pi - \cos^{-1} x$ .
14. Find the domain and range of  $\sec x$ .
15. Write the fundamental Law of trigonometry.

**Extensive Questions.**

**(5×2=10)**

**Q.3.** Show that (without tables/calculator)  $\cos 20^{\circ} \cos 40^{\circ} \cos 80^{\circ} = 1/8$

**Q.4.** Solve the triangle ABC if  $a=53$ ,  $\beta = 88^{\circ}$ ,  $\gamma = 36^{\circ} 31' 54''$