

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 **Answer**
- (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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Time: 80 min

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

Subjective.

Marks:40

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)

Time: 10 min **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 D B = , , then m D 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. $\sec(-96^0) =$ -----
(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) $4 \cos^3 - 3 \cos \theta$ (B) $4 \sin^3 \theta - 3 \cos \theta$ (C) $3 \sin \theta - 4 \cos^3 \theta$ (D) $3 \sin \theta - 4 \sin^3 \theta$

Divisional Public School & College Sahiwal (Sub Campus Chichawatni)

Time: 80 min **3rd Revision Test -2020-21 XI- Mathematics-III** **Subjective. Marks:40**

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 θ , 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 α, β, γ 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 $a=53$, $\beta = 88^\circ$, $\gamma = 36^\circ 31' 54''$