

# TNPSC – GROUP IV

## GENERAL STUDIES - 2018 (ENGLISH)

### PHYSICS

1. How many solution have a linear equation in one variable?  
(A) Three solutions  
(B) **Unique solution**  
(C) Two solutions  
(D) No solution
  
2. Which of the following statement is false in a Parallelogram?  
(A) The opposite sides are parallel  
(B) The opposite angels and sides are equal  
(C) **The diagonals are equal**  
(D) The diagonals bisect each other
  
3. Supply is constant in  
(A) Short period  
(B) **Very short period**  
(C) Long period  
(D) Very long period
  
4. Which of the following devices converts light signals into electrical (or) electronic signals?
  1. Digital camera
  2. Fax machine
  3. Optical transmitter  
(A) **1 and 2 only**  
(B) 2 and 3 only  
(C) 1 and 3 only  
(D) 1, 2 and 3
  
5. A man sitting in the revolving chair with stretched hands, suddenly bend his hands, the angular velocity  
(A) decreases  
(B) **increases**  
(C) zero  
(D) constant
  
6. Which of the following statements is/are wrong?
  1. Light year is a unit of time
  2. Astronomical unit (AU) is a unit of distance.
  3. Parsec is a unit of mass  
(A) 2 and 3  
(B) 1 and 3  
(C) 2 only  
(D) **1 only**



# TNPSC – GROUP 2A

## GENERAL STUDIES - 2016 (ENGLISH)

11. The value of  $e^0$  is  
 (A) e                                    **(B) 1**                                    (C) 0                                    (D)  $\infty$
12. Identify the incorrect pair:
1. Washing soda            -  $\text{Na}_2\text{CO}_3$
  2. Bleaching powder       -        CaO
  3. Plaster of paris         -  $\text{CaSO}_4 \frac{1}{2} \text{H}_2\text{O}$
  4. Baking soda             -  $\text{NaHCO}_3$
- (A) I                                    **(B) II**                                    (C) III                                    (D) IV
13. What are the chemicals presents in match stick?  
 (A) Red phosphorous, glue, sulphur  
**(B) Antimony sulphide, sulphur, potassium chlorate**  
 (C) Antimony sulphoide, red phosphorous, give  
 (D) Antimony sulphide, phosphorous, sulphur
14. 1. Amnion provides a fluid medium for the embryo  
 2. The Chorion and Allantois fuse to form placenta  
 3. Yolk sac provides a fluid medium for embryo  
 Choose the correct  
 (A) 1 and 2 are wrong                                    **(B) 1 and 2 are right**  
 (C) 2 and 3 are right                                    (D) 1 and 3 are right
15. Which class of algae is used in the manufacture of dynamite?  
**(A) Chlorophyceae**                                    (B) Chrysophyceae  
 (C) Cryptophyceae                                    (D) Pheophyceae

### ZOOLOGY

16. Match List I with List II correctly:
- | List – I    | List – II      |
|-------------|----------------|
| (Solution)  | (pH value)     |
| (a) Blood   | - 1. 6.5       |
| (b) Urine   | - 2. 7.3-7.5   |
| (c) Vinegar | - 3. 5.5-7.5   |
| (d) Milk    | - 4. 2.4 – 3.4 |

# TNPSC – GROUP 2A

## GENERAL STUDIES - 2016 (ENGLISH)

Codes :

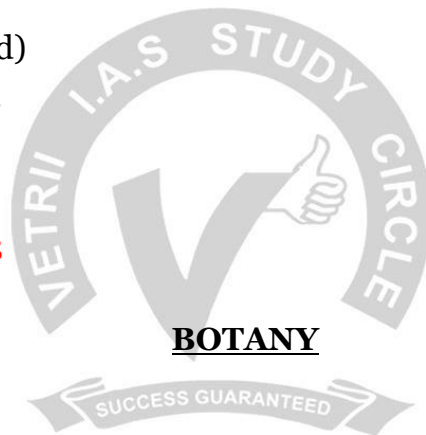
	(a)	(b)	(c)	(d)
<b>(A)</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>
(B)	2	4	1	3
(C)	4	2	3	1
(D)	3	1	4	2

17. Match the following :

Deficiency	-	diseases
(a) A	-	1. Pellagra
(b) B <sub>1</sub>	-	2. Nictalopia
(c) B <sub>4</sub>	-	3. Pernecious Anamemia
(d) B <sub>16</sub>	-	4. Beri Beri

Codes :

	(a)	(b)	(c)	(d)
(A)	2	3	1	4
(B)	1	4	2	3
(C)	4	1	3	2
<b>(D)</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>3</b>



18. The respiratory quotient of glucose in anaerobic respiration is

- (A) One                      (B) Four                      **(C) Infinity**                      (D) Less than one

19. Which group of plants species are lower in member in the plant kingdom?

- (A) Fungi                      (B) Pteridophyta                      (C) Bryophytes                      **(D) Gymnosperms**

20. Which is an example for chemosynthetic heterotroph?

- (A) Man**                      (B) Viscum                      (C) Nitrosomonas                      (D) Beggiatoa