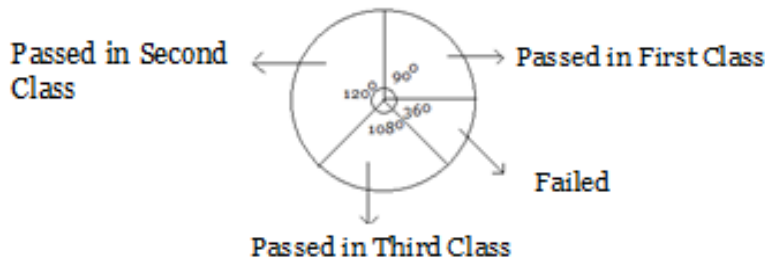


# TNPSC – GROUP 2

## GENERAL STUDIES - 2018 (ENGLISH)

### APTITUDE

1. Find the area of the iron sheet required to prepare a cone 24 cm high with base radius 7 cm  
 (A) **704 cm<sup>2</sup>**      (B) 702 cm<sup>2</sup>      (C) 700 cm<sup>2</sup>      (D) 668 cm<sup>2</sup>
2. The Sum of the series 31+33+ .... +53 is  
 (A) 729      (B) 341      (C) **504**      (D) 604
3. The Value of  $\frac{9^2 \times 18^4}{3^{16}}$  is  
 (A)  $\frac{2}{3}$       (B)  $\frac{2}{3}$       (C)  **$\frac{16}{81}$**       (D)  $\frac{32}{243}$
4. The Cube root of 0.027 is  
 (A) 3      (B) 0.003      (C) 0.03      (D) **0.3**
5. Given the pie chart. Obtain the pass percentage of student who passed in 1<sup>st</sup> Class.



- (A) 35%      (B) 30%      (C) 10%      (D) **25%**
6. At the rate of interest compound interest per annum will Rs. 640 amounts to Rs. 7774.40 in 2 years  
 (A) 8%      (B) 9%      (C) **10%**      (D) 11%
  7. A Circus tent is cylindrical to a height of 3 m and conical above it. If the base radius is 52.5 m and slant height of the cone is 53m, find the area of canvas required to make the tent.  
 (A)  $315 \pi m^2$       (B)  **$3097.5 \pi m^2$**       (C)  $2782.5 \pi m^2$       (D)  $2997.5 \pi m^2$
  8. Complete the series 1ZA, 3YB, 6 XC, 10WD,  
 (A) 14 VE      (B) 15 UE      (C) 12 VE      (D) **15 VE**
  9. The Product of two numbers is 1600 and their H.C.F. is 5, the L.C.M. of the number is  
 (A) **320**      (B) 1605      (C) 1595      (D) 8000

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10. The Principal amount triples itself at 8% per annum over a certain time. Find the number of years.  
 (A) 20 years                      **(B) 25 years**                      (C) 30 years                      (D) 35 years
11. What number should be subtracted from each of the numbers 54, 71, 75 and 99 so that the remainders may be proportional?  
 (A) 1                                      (B) 2                                      **(C) 3**                                      (D) 6
12. Find the difference between simple interest and compound interest for a sum of Rs. 8,000 lent at 10% p.a in 2 years.  
 (A) Rs. 70                              **(B) Rs. 80**                              (C) Rs. 90                              (D) Rs. 100
13. In How many years will sum of Rs. 1600 amount to Rs. 1852.20 at 5% per annum compound interest?  
**(A) 3**                                      (B) 4                                      (C) 5                                      (D) 6
14. Simplify  $\left[-\frac{1}{3}\right] - \left\{1 \div \left(\frac{2}{3} \times \frac{5}{7}\right) + 8 - \left[5 - \frac{1}{2} - \frac{1}{4}\right]\right\}$   
 (A)  $2\frac{21}{60}$                               **(B)  $-5\frac{41}{60}$**                               (C)  $5\frac{41}{60}$                               (D)  $-2\frac{21}{60}$
15. Find the G.C.D of  $a^3 - 1$  and  $a^2 - 1$   
 (A)  $a^2 - 1$                               (B)  $a^2 + 1$                               (C)  $a^3 - 1$                               **(D)  $a - 1$**
16. What percent is 5 grams of 1 kg?  
 (A) 5%                                      (B) 1%                                      **(C) 0.5%**                                      (D) 0.2%
17. If  $\frac{a+b}{c} = \frac{b+c}{a} = \frac{c+a}{b} = k$ , Then the value of  $k$  is  
 (A) 0                                      (B) 1                                      **(C) 2**                                      (D)  $a+b+c$
18. The ration of boys to girls in a class is 4:5. if the number of boys is 20, then the number of girls is  
 (A) 15                                      (B) 20                                      **(C) 25**                                      (D) 26
19. Area of a square is  $\frac{1}{2}$  hectare. The diagonal of the square is  
 (A) 250 metres                              **(B) 100 metres**                              (C)  $50\sqrt{2}$ metres                              (D) 50 Metres
20. The Surface areas of two spheres are in the ration 9: 25. Then their volumes are in the ratio  
 (A) 27:25                                      **(B) 27:125**                                      (C) 81: 625                                      (D) 729: 15625

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## GENERAL STUDIES - 2018 (ENGLISH)

21. A Man sells two wrist watches at Rs. 594 each. On one he gains 10% and on the other he loses 10% find his gain or loss percent on the whole  
(A) Loss% = 90% (B) Gain % = 5% **(C) Loss % = 1%** (D) Loss% = 7%
22. Simplify  $\frac{(3^3)^{-2} x (2^2)^{-3}}{(2^4)^{-2} x 3^{-4} x 4^{-2}}$   
**(A)  $7\frac{1}{9}$**  (B)  $7\frac{1}{8}$  (C)  $6\frac{2}{9}$  (D)  $6\frac{3}{8}$
23. 6 men working 10 hours a day can do a piece of work in 24 days. In how many days will 9 men working for 8 hours a day do the same work?  
(A) 10 Days (B) 15 Days **(C) 20 Days** (D) 25 Days
24. A can finish a job in 20 days and B can complete it in 30 days. They work together and finish the job. If Rs. 600 is paid as wages, then the share of A and B  
(A) 240, 360 (B) 300,300 **(C) 360, 240** (D) 400,200
25. If the average of the values 18, 41, X 36, 31,24,37,35,27,36 is 31. Find the value of x.  
**(A) 25** (B) 24 (C) 30 (D) 26

