

NTSE

NTSE Question Bank



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1. A submarine emits a SONAR pulse which returns from an underwater cliff in 1.05 second. If the speed of sound in salt water is 1531 m s^{-1} , how far away is the cliff?

- (a) 1568 m (b) 803.7 m (c) 1607.4 m (d) 765.5 m

Ans: (b) 803.7 m

2. When we vigorously shake a branch of a tree; some leaves get detached. It is due to the:

- (a) Inertia of rest
(b) Inertia of motion
(c) Some leaves are loosely held by the branch
(d) None of the above

Ans: (a) Inertia of rest

3. Two wires of copper have length l and $2l$ and cross-section area $2A$ and A respectively. The ratio of their specific resistance would be

- (a) $1 : 2$ (b) $8 : 1$ (c) $1 : 8$ (d) $1 : 1$

Ans: (d) $1 : 1$

4. A rectangular tank of depth 8 meter is full of water ($n=4/3$), the bottom is seen at the depth.

- (a) 6 m (b) $8/3$ m (c) 8 cm (d) 10 cm

Ans: (a) 6 m

5. A mixture of Ethanol and water can be separated by-

- (a) Filtration (b) Decantation
(c) Fractional distillation (d) Sublimation

Ans: (c) Fractional distillation

6. How many molecules are present in 9g of water?

- (a) 3.01×10^{23} (b) 6.022×10^{23} (c) 6.08×10^{23} (d) 3.82×10^{23}

Ans: (a) 3.01×10^{23}

7. F_1 particle or oxysome is present in:

- (a) Endoplasmic reticulum (b) Chloroplast
(c) Mitochondria (d) Golgi complex

Ans: (c) Mitochondria

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8. Which one of the following belongs to vascular cryptogams?
(a) Bryophyta (b) Pteridophyta (c) Gymnosperms (d) Angiosperms
Ans: (b) Pteridophyta
9. Onset of menstrual cycle in females is known as:
(a) Menopause (b) Menostart (c) Menarche (d) Menstrarch
Ans: (c) Menarche
10. If the sum of ages of a father and his son in years is 65 and twice the difference of their ages in years is 50, then the age of father is –
(a) 45 years (b) 40 years (c) 50 years (d) 55 years
Ans: (a) 45 years
11. If the sum of zeroes of the polynomial $p(x) = kx^3 - 5x^2 - 11x - 3$ is 2, then k is equal to:
(a) $k = -\frac{5}{2}$ (b) $k = \frac{2}{5}$ (c) $k = 10$ (d) $k = \frac{5}{2}$
Ans: (d) $k = \frac{5}{2}$
12. If a is a positive integers and p be a prime number and p divides a^2 , then
(a) a divides p (b) p divides a (c) p^2 divides a (d) None of these
Ans: (b) p divides a
13. The vertices of a triangle AOD are (4, 0), (0, 0) and (0, 3). If the triangle is rotated clockwise about its circumference till AD returns to its original position, then the vertices of the triangle in its new position are
(a) (3,0), (0,0), (0,4) (b) (-3,0), (0,0), (0,-4)
(c) (3,4), (0,0), (0,4) (d) (-4, 0), (0,0), (0,0), (0,3)
Ans: (a) (3,0), (0,0), (0,4)
14. The mean wage of 150 labours working in a factory running three shift with 60, 40 and 50 labours in R 114. The mean wage of 60 labourers working in the first shift R 121. 50 and that of 40 labourers working the second shift is R 107.75, then wage of those working in the third shift is
(a) R 110 (b) R 100 (c) R 120 (d) R 115.75
Ans: (a) R 110
15. 5 coins are tossed simultaneously. The chance that all will show head is:
(a) $1/64$ (b) $1/32$ (c) $1/2$ (d) None of these
Ans: (b) $1/32$

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I still wonder how one man has such a deep understanding of an examination. It becomes the truth what ever Vipin Sir says about NTSE.

M. Pareek

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16. The cost of cutting the crops of circular field of radius 35m is Rs. 4750. What shall be the cost of cutting the crops at the same rate on another circular field whose radius is $\frac{1}{5}$ of the field?

- (a) Rs. 190 (b) Rs. 180 (c) Rs. 170 (d) Rs. 150

Ans: (a) Rs. 190

17. The area of a triangle whose vertices are $(a, c + a)$, (a, c) and $(-a, c - a)$ are

- (a) a^2 (b) b^2 (c) c^2 (d) $a^2 + c^2$

Ans: (a) a^2

18. Which of the following is not correct ?

- (a) The spirit of laws – Montesquieu (b) Reign of Terror – Maxmillian Robespierre
(c) Social Contract Theory – Rousseau (d) French Revolution – July 4, 1789

Ans: (d) French Revolution – July 4, 1789

19. Who implements the collective farms (Kolkhoz) ?

- (a) Stalin (b) Lenin (c) Tsar Nicholas II. (d) Karl Max

Ans: (a) Stalin

20. In about the 1660's the farmers in many parts of England began growing turnip and clover because

- (a) The spread of railways made it easy to transport the crops to the eastern coast for export
(b) These crops had the capacity to increase the nitrogen content of the soil
(c) The farmers earned huge profits by selling these crops
(d) None of the above

Ans: (b) These crops had the capacity to increase the nitrogen content of the soil

21. Who was the founder of "Hoa Hao" movement in Mekong delta region ?

- (a) Phan Boi (b) Liang Qichao (c) Huynh Phu So (d) Ho Chi Minh

Ans: (c) Huynh Phu So

22. Taxol, a chemical mpound is prepared from a medical plant "Himalayan Yew" [*Taxus wallachiana*]. This Taxol is used to treat this disease.

- (a) Cancer (b) Dengue (c) Filaria (d) Psoriasis

Ans: (a) Cancer

23. One of the following is the correct order of major irrigation projects in India from North to South

- (a) Rihind, Kosi, Hirakud, DVC (b) Kosi, Rihind, DVC, Hirakud
(c) Hirakud, DVC, Rihind, Kosi (d) DVC, Kosi, Hirakud, Rihind

Ans: (b) Kosi, Rihind, DVC, Hirakud

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24. Which of the following system of power sharing is called checks and balance?
(a) Separation of power (b) Federal division of powers
(c) Horizontal division of powers (d) Vertical divisions of powers

Ans: (c) Horizontal division of powers

25. Which party has been, in power in West Bengal without a break for 30 years ?
(a) Communist Party of India (CPI). (b) Communist Party of Marxist (CPI – M)
(c) Nationalist Congress Party. (d) Trinamool Congress.

Ans: (b) Communist Party of Marxist (CPI – M)

26. Choosing a Similar Word
Bhilai, Durgapur, Bokaro
(a) Baroda (b) Chennai (c) Chandigarh (d) Rourkela

Ans: (d) Rourkela

27. Arrange the words given below in a meaningful sequence (in increasing order).
1. Nation 2. Village 3. City 4. District 5. State
(a) 2, 3, 4, 5, 1 (b) 2, 3, 4, 1, 5 (c) 1, 3, 5, 4, 2 (d) 1, 2, 3, 4, 5

Ans: (a) 2,3,4,5,1

28. 1296, 648, 216, ?, 36, 18, 6, 3
(a) 112 (b) 108 (c) 106 (d) 110

Ans: (b) 108

29. How many 5's are there in the following number sequence which are preceded by 7 and followed by 6?
7 5 5 9 4 5 7 6 4 5 9 8 7 5 6 7 6 4 3 2 5 6 7 8

(a) 1 (b) 2 (c) 3 (d) 4

Ans: (a) 1

30. How many such pairs of letters are there in the word 'CHANNEL', which has as many letters between them in the word as in the English alphabet?

(a) None (b) One (c) Two (d) Three
(e) More than three

Ans: (c) Two

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