

Examrace

NTSE Stage 2: SAT Sample Paper Set 4 Year 2017

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Which of the following is an example of a single cell that does not function as a full-fledged organism?

- a. white blood cell
- b. amoeba
- c. WBC & amoeba
- d. Paramecium

- 1. b only
- 2. b and d only
- 3. a only
- 4. c and d only

NTSE Stage 2: SAT sample question 2

When a small amount of garden soil is put into a glass jar containing water, stirred and allowed to stand for two hours, the layers from top to bottom would be

- 1. Debris, water, sand and clay
- 2. Humus, water, clay and sand
- 3. Debris, clay, gravel and sand
- 4. Humus clay, gravel and sand

NTSE Stage 2: SAT sample question 3

Read the following and mark the ones that are true

- a. Malaria is transmitted by a virus.
- b. Cholera is caused by Mycobacterium.
- c. Salmonella typhi spreads through soil and water.
- d. Varicella causes chicken pox

- 1. a and c only
- 2. b and d only

3. c and d only

4. a and b only

NTSE Stage 2: SAT sample question 4

Weeds not only use nutrients from the soil but are also

- a. harmful for some organism including human beings.
- b. useful for the crops and harmful for human beings.
- c. harmful for crops and some animals.
- d. crops specific.

Select the alternative which includes all correct statements

- 1. a, c and d only
- 2. b, c and d only
- 3. a, b and c only
- 4. a, b and d only

NTSE Stage 2: SAT sample question 5

Match the items in Column I with Column II

- A. Mouth a. Protein
- B. Stomach b. Water
- C. Small Intestine c. Starch
- D. Large Intestine d. Fat

- 1. A-d, B-c, C-a, D-b
- 2. A-c, B-d, C-b, D-a
- 3. A-c, B-a, C-d, D-b
- 4. A-b, B-a, C-d, D-c

NTSE Stage 2: SAT sample question 6

Select the correct statements with respect to migration in animals

- a. The same Siberian Crane can be seen in Bharatpur in two consecutive winters.
- b. Some fishes lay eggs in rivers and the fingerlings gradually swim to sea.
- c. Some fishes migrate from cold climate to a warmer climate to escape cold weather.
- d. Some butterflies migrate up to 10,000 km to escape cold weather

1. a & b
2. b & c
3. c & d
4. a & d

NTSE Stage 2: SAT sample question 7

Read the following about the agents of seed dispersal and select the correct alternatives

- a. Xanthium and Urena by animals.
- b. . Drumstick and Maple by wind.
- c. Groundnut and Areca nut by birds.
- d. Madar and Sunflower by insects.

1. a and b
2. a and c
3. c and d
4. b and d

NTSE Stage 2: SAT sample question 8

Consider the following statements and identify the statements that are correct.

- a. Baking soda is an acidic salt where as washing soda is basic salt.
- b. The aqueous solution of common salt does not change the colour of either red litmus solution or blue litmus solution.
- c. Amla tastes sour whereas soap solution is bitter in taste.
- d. The water extract of spinach does not change the colour of red litmus solution.

1. a , b and c
2. a and c
3. b and c
4. b and d

NTSE Stage 2: SAT sample question 9

Arrange the following in decreasing order of their acidic character.

- a. Vinegar
- b. Stomach

c. Soap solution

d. Lime water

1. b, a, d, c

2. c, d, a, b

3. b, a, c, d

4. d, c, a, b

NTSE Stage 2: SAT sample question 10

Which of the following metals on reacting with sodium hydroxide solution produce hydrogen gas?

a. Cu

b. Al

c. Fe

d. Zn

1. b & c

2. b & d

3. a & d

4. b only

NTSE Stage 2: SAT sample question 11

Rooms are fitted with ventilators to let the air move around. The phenomenon involved in this process is

1. conduction

2. convection

3. radiation

4. diffusion

NTSE Stage 2: SAT sample question 12

A car travels at a speed of 80 km/hr for 15 minutes and at a speed of 40 km/hr for next 15 minutes. The average speed of the car is

1. 15.7 ms⁻¹

2. 16.7ms⁻¹

3. 17.7 ms⁻¹

4.18. 7ms-1

NTSE Stage 2: SAT sample question 13

A ball of mass 0.20 kg falls freely from a certain height and rebounds elastically with a speed of 40 ms⁻¹. The change in momentum of the ball is

1.4 kg ms⁻¹

2.8 kg ms⁻¹

3.16 kg ms⁻¹

4.40 kg ms⁻¹

NTSE Stage 2: SAT sample question 14

The force of friction acting on a car on different roads in the increasing order of magnitude will be

1. mud, tar, concrete and gravel roads

2. tar, concrete, gravel and mud roads

3. concrete, tar, gravel and mud roads

4. gravel, mud, tar and concrete roads

NTSE Stage 2: SAT sample question 15

Voice of which of the following creatures is likely to have maximum frequency?

1. man

2. cow

3. bird

4. dog

NTSE Stage 2: SAT sample question 16

If $(x - 1)^2 + (y - 3)^2 + (z - 5)^2 + (t - 7)^2 = 0$, then $xyzt + 16$ is equal to

1.52

2.92

3.112

4.122

NTSE Stage 2: SAT sample question 17

A person invested 3 times as much money at 5 % as he had invested at 2 % per annum simple interest. Further he invested ₹ 6000 more at 3 % than he had invested at 2 % . If

the total interest from the three investments after a year is ₹ 980, then the total amount he invested is

1. ₹ 17600
2. ₹ 18000
3. ₹ 20000
4. ₹ 26000

NTSE Stage 2: SAT sample question 18

Population of a town increased by 1200 persons in a year and then this new population decreased by 11 % during the next year. If the town now has 32 persons less than it had before the increase , then the original population of the town is

- 1.9968
- 2.10000
- 3.11232
- 4.12000

NTSE Stage 2: SAT sample question 19

How much percent above the cost price should a shopkeeper mark his goods so that after allowing a discount of 20 % on the marked price, he still has a gain of 10 % ?

- 1.10 %
- 2.25. 5 %
- 3.30 %
- 4.37. 5 %

NTSE Stage 2: SAT sample question 20

The lengths of the sides of a right angled triangle are all given in natural numbers. If two of these numbers are odd and they differ by 50, then the least possible value for third side is

- 1.61
- 2.60
- 3.51
- 4.50

NTSE Stage 2: SAT sample question 21

Four pipes each of 5 cm in diameter are to be replaced by a single pipe discharging the same quantity of water. If the speed of water remains same in both the cases, then the diameter (in cm) of the single pipe is

- 1.5
- 2.6
- 3.10
- 4.12

NTSE Stage 2: SAT sample question 22

Match the names of foreign chroniclers with the names of Indian rulers whose period became the theme of their description.

- i. Megasthenes a. Alauddin Khilji
- ii. Fahien b. Harsha Vardhana
- iii. Ziauddin Barani c. Chandragupta Maurya
- iv. Hiuen Tsang d. Samudragupta

1. i. c: ii. b: iii. a: iv. d
2. i . a: ii b: iii. c: iv d
3. i. c: ii d: iii. a: iv. b
4. i. d: ii. c: iii. b: iv. a

NTSE Stage 2: SAT sample question 23

What lands were assigned for the maintenance of educational institutions under the Cholas?

1. Brahmadeya
2. Shalabhoga
3. Tirunanattukkani
4. Vellanvagai

NTSE Stage 2: SAT sample question 24

Match the names of the following tribes with the areas of their settlement.

- i. Khokkar a. Malabar
- ii. Kurichayyas b. Punjab
- iii. Gonds c. Maharashtra

iv. Kolis d. Madhya Pradesh

1. i b; ii a; iii d; iv c
2. i a; ii b; iii c; iv d
3. i b; ii d; iii a; iv c
4. i c; ii a; iii d; iv b

NTSE Stage 2: SAT sample question 25

Surat and Mesulipatnam were important trading towns in 17th century. However in the 18th century they lost their importance.

Which of the following was NOT responsible for their decline?

1. Loss of market and productivity because of the decline of the Mughal Empire
2. Control of sea – routes by the Portugese and competition from Bombay
3. Fierce competition among various trading rroups like Golconda nobles, Persian merchants etc.
4. Shifting of company trade centres to Bombay , Calcutta and Madras

NTSE Stage 2: SAT sample question 26

The worst effect of the agricultural indebtedness was

1. the acquisition of land by money -lenders.
2. distribution of the debtor's land to others by money-lenders.
3. social boycott of the debtor by villagers.
4. intervention by the Government.

NTSE Stage 2: SAT sample question 27

The Indigo farmer (ryots) were facing oppressive conditions for a long time. However, they decided to rebel against the planters in 1859 because

1. ryots had to sign an agreement for planting indigo against a loan.
2. planters forced the ryots to plant indigo on the best soil meant for cultivating rice.
3. the price that the ryots got for the indigo was very low and the cycle of loans never ended.
4. ryots had the support of local zamindars, village headmen as well as of the British Government

NTSE Stage 2: SAT sample question 28

Match the following?

- a. Willam Jonesi. Respect for ancient cultures
- b. Thomas Macaularyii. Critical of English Language
- c. Rabindranath Tagoreiii. Learning in a natural enviroment
- d. Mahatma Gandhi iv. Promotion of English language

1. a i , b ii, c iii, d iv

2. a i, b iv, c iii, d ii

3. a i, b iii, c ii, d iv

4. a iv, b i, c ii, d iii

NTSE Stage 2: SAT sample question 29

Whichof the following pairs is correctly matched?

1. Elbe - Caspian Sea

2. Rhone – Baltic Sea

3. Ural – White Sea

4. Danube - Black Sea

NTSE Stage 2: SAT sample question 30

Match list I (Forest types) with list II (Types of trees)

List – I

List- II

A. Tropical Evergreen

I. Oak, pinc, eucalyptus

B. Temperated Evergreen

II. Oak, ash, beech

C. Tropical Deciduous

III. Rosewood, ebony, mahogany

D. Temperated Deciduous

IV. Sal, teak, shisham

1. (A-II) , (B-IV) , (C-III) , (D-I)

2. (A-IV) , (B-II) , (C-I) , (D-III)

3. (A-I) , (B-III) , (C-II) , (D-IV)

4. (A-III) , (B-I) , (C-IV) , (D-II)

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