

VTSE

SAMPLE QUESTION PAPER

ENGLISH

- From the following, which of the given words is Closest in meaning to the word provided. Aloof
(a) Above (b) Tidy
(c) Clever (d) Reserved
- From the following, which of the given words is Opposite in meaning to the word provided. Heal
(a) Sew (b) Foot
(c) Good (d) Maim
- Fill suitable preposition/phrasal verb in the blank of each item which is followed by four words or group of words.
(a) broke in (b) broke down
(c) broke into (d) broke up
- Fill suitable preposition/phrasal verb in the blank of each item.
He broke out of the prison dressing as a woman.
(a) in (b) a
(c) by (d) with
- Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.
My father was too to push open the heavy door.
(a) timid (b) faint
(c) feeble (d) faltering
- Find incorrect part of statement, if statement is correct then answer will be (d) No error
If you will work hard (a)/ you will always (b) / succeed (c)/ No error (d)
- In given statement part of sentence is underlined. Choose the correct from given alternatives Other countries have eradicated this disease ten years ago
(a) eradicated (b) had eradicated
(c) did eradicate (d) No improvement
- Select the antonym of the word occurring in the sentence in capital letters as per context.
It is easy to understand his FUZZY thoughts.
(a) Misty (b) Vague
(c) Clear (d) Useful
- Select the synonym of the word occurring in the sentence in capital letters as per context.
One must live life with DIGNITY.
(a) Nobility (b) Eminence
(c) Honour (d) Rank
- Complete the following sentence using appropriate pair of words.
..... cover of darkness, the enemy crept the hill.
(a) In, over (b) In, along
(c) Under, up (d) Through, upon

SCIENCE

- Our Stomach produce which acid
(a) Sulphuric Acid (b) Hydrochloric Acid
(c) Nitric Acid (d) Acetic Acid
- Which pigment is used for photosynthesis in plants
(a) Xanthophyll (b) Chlorophyll
(c) Eosinophyll (d) Carotene
- Which gland is also called Master Gland of Body
(a) Pancreas (b) Pituitary Gland
(c) Adrenal Gland (d) Thyroid Gland
- Ovule of plant develop into
(a) Fruit (b) Seed
(c) Thalamus (d) None of these
- Which mirror is used in solar heaters
(a) Convex Mirror (b) Concave Mirror
(c) Plane Mirror (d) None of these
- What is function of Iris for our eye
(a) helps for image formation
(b) control and regulates amount of light
(c) help to modify curvature and focal length of eye
(d) control size of pupil
- Which lens is used to correct Hypermetropia
(a) Convex Lens (b) Concave Lens
(c) Simple Lens (d) Bifocal Lens
- Which of following is not Non-Conventional source of energy
(a) Hydro Energy (b) Solar Energy
(c) Wind Energy (d) Coal Energy
- Which of following is Non-Biodegradable substance
(a) Newspaper (b) Agricultural Waste
(c) Cloth (d) Polythene Bag
- Which of following is not a Redox Reaction
(a) Rusting of Iron
(b) Rancidity
(c) Combination of Mg and Oxygen
(d) All of above are Redox Reactions

MATHS

- A piggy bank contains hundred 50P coins, fifty Rs. 1 coins, twenty Rs. 2 coins, and 10 Rs. 5 coins. If it is equally likely that one of the coins will fall out when the bank is turned upside down, what is the probability that the coin will not be a Rs. 5 coin.
(a) 23/18 (b) 17/18
(c) 21/18 (d) 16/18
- A toy is in the form of a cone of radius 3.5 cm mounted on a hemisphere of same radius. The total height of the toy is 15.5 cm. Find the total surface area of the toy.
(a) 267.4cm² (b) 367.5cm²
(c) 214.5cm² (d) 194.7cm²

VTSE

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23. A 20 m deep well with diameter 7 m is dug and the earth from digging is evenly spread out to form a platform 22 m by 14 m. Find the height of the platform.
(a) 1.67 m (b) 2 m
(c) 2.33 m (d) 2.5 m
24. An umbrella has 8 ribs which are equally spaced. Assuming umbrella to be a flat circle of radius 45 cm, find the area b/w the two consecutive ribs of the umbrella
(a) 35642/7 cm² (b) 456328/25 cm²
(c) 22275/28 cm² (d) 31145/17 cm²
25. A chord of a circle of radius 15 cm subtends an angle of 60° at the center. Find the area of the corresponding minor segment of the circle.
(a) 23.88 cm² (b) 22.65 cm²
(c) 21.18 cm² (d) 20.44 cm²
26. From a point on the ground, the angles of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45° and 60° respectively. Find the height of the tower.
(a) 20(√3-1) (b) 30(√3-1)
(c) 40(√3-1) (d) 15(√3-1)
27. Given Sec θ = 13/12, find Cos θ and Cot θ
(a) 12/15 and 12/13 (b) 12/13 and 12/5
(c) 13/12 and 12/8 (d) 13/5 and 12/8
28. Evaluate Sin 250 Cos 650 + Sin 650 Cos 250
(a) 1 (b) 0
(c) 1/2 (d) √3/2
29. Find the area of the triangle whose vertices are (2,3), (-1,0), (2,-4)
(a) 9 sq. units (b) 10 sq. units
(c) 11.5 sq. units (d) 10.5 sq. units
30. Find the sum of first 22 terms of an A.P. in which d = 7 and 22nd term is 149
(a) 1549 (b) 1632
(c) 1649 (d) 1661
- APTITUDE QUESTIONS**
31. What will come in place of question mark in the following equation?
 $57/67 \times 32/171 \times 45/128 = ?$
(a) 15/262 (b) 15/268
(c) 15/266 (d) 17/268
32. What will come in place of question mark in the following equation?
 $(5863 - \sqrt{2704}) \times 0.5 = ?$
(a) 2955.5 (b) 2905.5
(c) 2590.5 (d) 2590.5
33. The petrol tank of Bajaj Pulsar can hold g liters, if a liter was removed when the tank was full, what part of the full tank was removed?
(a) g-a (b) g/a
(c) a/g (d) (g-a)/a
34. Two dice are thrown together. What is the probability that the sum of the number on the two faces is divisible by 4 or 6.
(a) 9/16 (b) 1/2
(c) 1/2 (d) 7/18
35. Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?
(a) 7 (b) 10
(c) 12 (d) 13
36. Which word does NOT belong with the others?
(a) parsley (b) basil
(c) dill (d) mayonnaise
37. Which word does NOT belong with the others?
(a) tyre (b) steering wheel
(c) engine (d) car
38. Pointing to a photograph of a boy Suresh said, "He is the son of the only son of my mother." How is Suresh related to that boy?
(a) Brother (b) Uncle
(c) Cousin (d) Father
39. If A+B means A is the mother of B; A=B means A is the brother of B; A%B means A is the father of B and AxB means A is the sister of B, which of the following shows that P is the maternal uncle of Q?
(a) Q - N + M x P (b) P + 5 x N - Q
(c) P-M+NxQ (d) Q-5\$%P
40. If South-East becomes North, North-East becomes West and so on. What will West become?
(a) North-East (b) North-West
(c) South-East (d) South-West

Our Courses?

1. MEDICAL

2. NON-MEDICAL

3. FOUNDATIONS

4. COMMERCE