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GATE SOLVED PAPER
Computer Science Engineering
General Aptitude

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GATE SOLVED PAPER - CS

GENERAL APTITUDE

YEAR 2010

ONE MARK

- Q. 1 Which of the following options is the closest in meaning to the word below?
Circuitous
(A) Cyclic (B) Indirect
(C) Confusing (D) Crooked
- Q. 2 The question below consists of a pair of related words followed by four pairs of words. Select the pair that best expresses the relation in the original pair.
Unemployed : Worker
(A) Fallow : Land (B) Unaware : Sleeper
(C) Wit : Jester (D) Renovated : House
- Q. 3 Choose the most appropriate word from the options given below to complete the following sentence:
If we manage to our natural resources, we would leave a better planet for our children.
(A) uphold (B) restrain
(C) cherish (D) conserve
- Q. 4 Choose the most appropriate word from the options given below to complete the following sentence:
His rather casual remarks on politics his lack of seriousness about the subject.
(A) masked (B) belied
(C) betrayed (D) suppressed
- Q. 5 25 persons are in a room, 15 of them play hockey, 17 of them play football and 10 of them play both hockey and football. Then the number of persons playing neither hockey nor football is
(A) 2 (B) 17
(C) 13 (D) 3

YEAR 2010

TWO MARKS

- Q. 6 Modern warfare has changed from large scale clashes of armies to suppression of civilian populations. Chemical agents that do their work silently appear to be suited to such warfare; and regretfully, there exist people in military establishments who think that chemical agents are usefull fools for their cause. Which of the following statements best sums up the meaning of the above passage?
(A) Modern warfare has resulted in civil strife
(B) Chemical agents are useful in modern warfare.
(C) Use of chemical agents in warfare would be undesirable.
(D) People in military establishments like to use chemical agents in war.

- Q. 7 If $137 + 276 = 435$ how much is $731 + 672$?
(A) 534 (B) 1403
(C) 1623 (D) 1531
- Q. 8 5 skilled workers can build a wall in 20 days; 8 semi-skilled workers can build a wall in 25 days; 10 unskilled workers can build a wall in 30 days. If a team has 2 skilled, 6 semiskilled and 5 unskilled workers, how long will it take to build the wall?
(A) 20 days (B) 18 days
(C) 16 days (D) 15 days
- Q. 9 Given digits 2, 2, 3, 3, 3, 4, 4, 4, 4 how many distinct 4 digit numbers greater than 3000 can be formed?
(A) 50 (B) 51
(C) 52 (D) 54
- Q. 10 Hari (H), Gita (G), Irfan (I) and Saira (S) are siblings (i.e. brothers and sisters). All were born on 1st January. The age difference between any two successive siblings (that is born one after another) is less than 3 years. Given the following facts:
1. Hari's age + Gita's age > Irfan's age + Saira's age
2. The age difference between Gita and Saira is 1 year. However, Gita is not the oldest and Saira is not the youngest.
3. There are no twins.
In what order were they born (oldest first)?
(A) HSIG (B) SGHI
(C) IGSJ (D) IHSG
- YEAR 2011 ONE MARK
- Q. 11 Which of the following options is the closest in the meaning to the word below:
Inexplicable
(A) Incomprehensible (B) Indelible
(C) Inextricable (D) Infallible
- Q. 12 If $\text{Log}(P) = (1/2)\text{Log}(Q) = (1/3)\text{Log}(R)$, then which of the following options is TRUE?
(A) $P^2 = Q^3R^2$ (B) $Q^2 = PR$
(C) $Q^2 = R^3P$ (D) $R = P^2Q^2$
- Q. 13 Choose the most appropriate word(s) from the options given below to complete the following sentence.
In contemplated ----- Singapore for my vacation but decided against it.
(A) to visit (B) having to visit
(C) visiting (D) for a visit

- Q. 14 Choose the most appropriate word from the options given below to complete the following sentence.

If you are trying to make a strong impression on your audience, you cannot do so by being understated, tentative or

- (A) hyperbolic (B) restrained
(C) argumentative (D) indifferent

- Q. 15 Choose the word from the options given below that is most nearly opposite in meaning to the given word:

Amalgamate

- (A) merge (B) split
(C) collect (D) separate

YEAR 2011

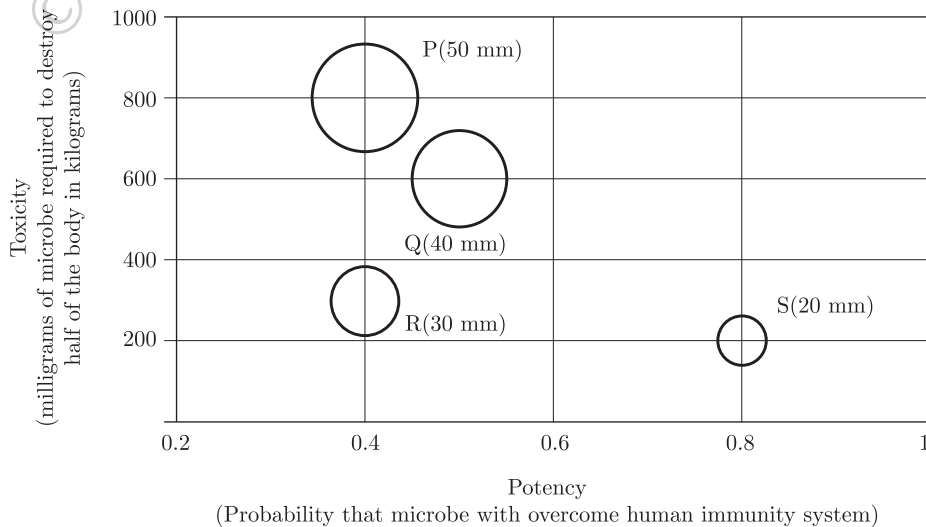
TWO MARKS

- Q. 16 **Few school curricula include a unit on how to deal with bereavement and grief, and yet all students at some point in their lives suffer from losses through death and parting.**

Based on the above passage which topic would not be included in a unit on bereavement?

- (A) how to write a letter of condolence
(B) what emotional stages are passed through in the healing process
(C) what the leading causes of death are
(D) how to give support to a grieving friend

- Q. 17 P, Q, R and S are four types of dangerous microbes recently found in a human habitat. The area of each circle with its diameter printed in brackets represents the growth of a single microbe surviving human immunity system within 24 hours of entering the body. The danger to human beings varies proportionately with the toxicity, potency and growth attributed to a microbe shown in the figure below:



A pharmaceutical company is contemplating the development of a vaccine against the most dangerous microbe. Which microbe should the company target in its first attempt?

- (A) P (B) Q
(C) R (D) S

Q. 18

The variable cost (V) of manufacturing a product varies according to the equation $V = 4q$, where q is the quantity produced. The fixed cost (F) of production of same product reduces with q according to the equation $F = 100/q$. How many units should be produced to minimize the total cost ($V + F$)?

- (A) 5 (B) 4
(C) 7 (D) 6

Q. 19

A transporter receives the same number of orders each day. Currently, he has some pending orders (backlog) to be shipped. If he uses 7 trucks, then at the end of the 4th day he can clear all the orders. Alternatively, if he uses only 3 trucks, then all the orders are cleared at the end of the 10th day. What is the minimum number of trucks required so that there will be no pending order at the end of the 5th day?

- (A) 4 (B) 5
(C) 6 (D) 7

Q. 20

A container originally contains 10 litres of pure spirit. From this container 1 litre of spirit is replaced with 1 litre of water. Subsequently, 1 litre of the mixture is again replaced with 1 litre of water and this process is repeated one more time. How much spirit is now left in the container?

- (A) 7.58 litres (B) 7.84 litres
(C) 7 litres (D) 7.29 litres

YEAR 2012

ONE MARK

Q. 21

The cost function for a product in a firm is given by $5q^2$, where q is the amount of production. The firm can sell the product at a market price of Rs 50 per unit. The number of units to be produced by the firm such that the profit is maximized is

- (A) 5 (B) 10
(C) 15 (D) 25

Q. 22

Choose the most appropriate alternative from the options given below to complete the following sentence:

Despite several _____ the mission succeeded in its attempt to resolve the conflict.

- (A) attempts (B) setbacks
(C) meetings (D) delegations

Q. 23

Which one of the following options is the closest in meaning to the word given below?

Mitigate

- (A) Diminish (B) Divulge
(C) Dedicate (D) Denote

- Q. 24 Choose the grammatically INCORRECT sentence:
(A) They gave us the money back less the service charges to Three Hundred rupees.
(B) This country's expenditure is not less than that of Bangladesh.
(C) The committee initially asked for a funding of Fifty Lakh rupees, but later settled for a lesser sum.
(D) This country's expenditure on educational reforms is very less.
- Q. 25 Choose the most appropriate alternative from the options given below to complete the following sentence:
Suresh's dog is the one _____ was hurt in the stampede.
(A) that (B) which
(C) who (D) whom

YEAR 2012

TWO MARKS

- Q. 26 Wanted Temporary, Part-time persons for the post of Field interviewer to conduct personal interviews to collect and collate economic data. Requirements: High School-pas, must be available for Day, Evening and Saturday work. Transportation paid, expenses reimbursed.
Which one of the following is the best inference from the above advertisement?
(A) Gender-discriminatory (B) Xenophobic
(C) Not designed to make the post attractive
(D) Not gender-discriminatory
- Q. 27 A political party orders an arch for the entrance to the ground in which the annual conventions is being held. The profile of the arch follows the equation $y = 2x - 0.1x^2$ where y is the height of the arch in meters. The maximum possible height of the arch is
(A) 8 meters (B) 10 meters
(C) 12 meters (D) 14 meters
- Q. 28 An automobile plant contracted to buy shock absorbers from two supplies X and Y. X supplies 60% and Y supplies 40% of the shock absorbers. All shock absorbers are subjected to a quality test. The ones that pass the quality test are considered reliable. Of X's shock absorbers, 96% are reliable. Of Y's shock absorbers, 72% are reliable.
The probability that a randomly chosen shock absorber, which is found to be reliable, is made by Y is
(A) 0.288 (B) 0.334
(C) 0.667 (D) 0.720
- Q. 29 Which of the following assertions are CORRECT?
P: Adding 7 to each entry in a list adds 7 to the mean of the list
Q: Adding 7 to each entry in a list adds 7 to the standard deviation of the list
R: Doubling each entry in a list doubles the mean of the list
S: Doubling each entry in a list leaves the standard deviation of the list unchanged
(A) P, Q (B) Q, R
(C) P, R (D) R, S

- Q. 30 Given the sequence of terms, AD CG FK JP, the next time is
(A) OV (B) OW
(C) PV (D) PW

YEAR 2013

ONE MARK

- Q. 31 Which one of the following options is the closest in meaning to the word given below?
Nadir
(A) Highest (B) Lowest
(C) Medium (D) Integration
- Q. 32 Complete the sentence:
Universalism is to particularism as diffuseness is to _____.
(A) specificity (B) neutrality
(C) generality (D) adaptation
- Q. 33 What will be the maximum sum of 44, 42, 40,?
(A) 502 (B) 504
(C) 506 (D) 500
- Q. 34 Were you a bird, you _____ in the sky.
(A) would fly (B) shall fly
(C) should fly (D) shall have flown
- Q. 35 Choose the grammatically INCORRECT sentence:
(A) He is of Asian origin
(B) They belonged to Africa
(C) She is an European
(D) They migrated from India to Australia

YEAR 2013

TWO MARKS

- Q. 36 Find the sum of the expression
$$\frac{1}{\sqrt{1} + \sqrt{2}} + \frac{1}{\sqrt{2} + \sqrt{3}} + \frac{1}{\sqrt{3} + \sqrt{4}} + \dots + \frac{1}{\sqrt{80} + \sqrt{81}}$$

(A) 7 (B) 8
(C) 9 (D) 10
- Q. 37 Out of all the 2-digit integers between 1 and 100, a 2-digit number has to be selected at random. What is the probability that the selected number is not divisible by 7?
(A) 13/90 (B) 12/90
(C) 78/90 (D) 77/90

- Q. 38 After several defeats in wars, Robert Bruce went in exile and wanted to commit suicide. Just before committing suicide, he came across a spider attempting tirelessly to have its net. Time and again, the spider failed but that did not deter it to refrain from making attempts. Such attempts by the spider made Bruce curious. Thus, Bruce started observing the near-impossible goal of the spider to have the net. Ultimately, the spider succeeded in having its net despite several failures. Such act of the spider encouraged Bruce not to commit suicide. And then, Bruce went back again and won many a battle, and the rest is history. Which one of the following assertions is best supported by the above information?
- (A) Failure is the pillar of success
(B) Honesty is the best policy
(C) Life begins and ends with adventures
(D) No adversity justifies giving up hope
- Q. 39 A tourist covers half of his journey by train at 60 km/h, half of the remainder by bus at 30 km/h and the rest by cycle at 10 km/h. The average speed of the tourist in km/h during his entire journey is
- (A) 36 (B) 30
(C) 24 (D) 18
- Q. 40 The current erection cost of a structure is Rs 13200. If the labour wages per day increase by $\frac{1}{5}$ of the current wages and the working hours decrease by $\frac{1}{24}$ of the current period, then the new cost of erection in Rs. is
- (A) 16500 (B) 15180
(C) 11000 (D) 10120

ANSWER KEY

General Aptitude									
1	2	3	4	5	6	7	8	9	10
(B)	(A)	(D)	(C)	(D)	(D)	(C)	(D)	(B)	(B)
11	12	13	14	15	16	17	18	19	20
(A)	(B)	(C)	(B)	(D)	(C)	(D)	(A)	(C)	(D)
21	22	23	24	25	26	27	28	29	30
(A)	(B)	(A)	(B)	(A)	(D)	(B)	(B)	(C)	(A)
31	32	33	34	35	36	37	38	39	40
(B)	(A)	(C)	(A)	(C)	(B)	(D)	(D)	(C)	(B)

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