1. The cost price of a television is Rs 2400 which is 20% below the market price. If it is sold at a discount of 16% on the market price then find its market price, selling price and profit?
   A. Rs 3000, Rs 2520, 5%
   B. Rs 4000, Rs 3520, 6%
   C. Rs 5000, Rs 6250, 7%
   D. None of the above
   Explanation:
   Let, M.P of the television = x.
   According to the question, C.P. = x - 20x/100
   => 2400 = (100x-20x)/100
   => 2400 * 100 = 80x
   '. Market Price i.e. x = (2400*100)/80 = Rs. 3000
   Now S.P = MP - Discount
   = 3000 - 480. (because discount in rs = (16/ 100) *3000 = 480)
   = 2520.
   profit = 2520 - 2400 = 120 i.e. 5%

2. The average age of five girls 11. The oldest among them is 15 years old. What is the average of the others?
   A. 20
   B. 15
   C. 10
   D. none of these
   Explanation:
   Let 'T' be the total age of 5 girls.
   Then, T/5 = 11.
   => T = 55.
   Given, Age of the Oldest girl = 15.
   Then, Total age of other 4 girls will be 55-15=40.
   So, Avg. of other 4 girls 40/4 = 10.

3. What must be added to the two numbers, which are in ratio 5: 12, so that the new ratio becomes 3:4?
   A. 5
   B. 8
   C. 12
   D. 16
   Explanation:
   Let x be the required number.
   Then, According to the question,
   => (5+x)/(12+x) = 3/4
   => 20 + 4x = 36 + 3x.

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4. Today, the age of a father is thrice the age of his son. After 5 years the age of father will be 2.5 times the age of his son. What is the age of son today?
   A. 20 years 
   B. 15 years 
   C. 1 years 
   D. 22 years 

   Explanation: 
   Let the age of son = S years and the age of father = F years. 
   According to the question,
   => F = 3*S.
   => F = 3S.
   After 5 years,
   => (F+5) = 2.5 * (S+5).
   => 3S + 5 = 2.5S + 12.5 [put F=3S]
   => 0.5S = 7.5
   => S = 15
   Hence, the age of son = 15 years.

5. In a school the ratio of boys and girls are in the ration 5:6. 25% of boys will get scholar ship and 20% of girls will get scholar ship what % of students won’t get scholarship?
   A. 71% 
   B. 70% 
   C. 78% 
   D. none of these 

   Explanation: 
   According to the question,
   Boys: Girls => 5x: 6x
   Total no. of students including boys and girls = 5x + 6x = 11x

   25% of boys => 5x*25/100 = 5x/4
   20% of girls => 6x*20/100 =6x/5
   No. of students who are getting scholarship => 5x/4 + 6x/5 = 49x/20
   No. of students who are not getting scholarship = 11x - 49x/20 = 171x/20

   Hence, the percentage of students not getting scholarship => 171x/20/11x * 100
   => 100*171x/220x.
   => 77.7% = 78%(approx.).

6. A and B can together finish a work in 30 days. They worked at it for 20 days and then B let. The remaining work was done by A alone in 20 more days. B alone can do the entire work in option
   A. 48 days
According to the question, 
A+B's 1-day work = 1/30.
A+B's 20 days' work = 20*1/30 = 2/3.
Remaining work left = 1-2/3 = 1/3.
A does 1/3 work in ---> 20 days.
A does 1 work in ---> x days.
=> x = 3 * 20 = 60 days.

A will take 60 days to complete the whole work.
So, A's 1-day work = 1/60.
Therefore, B's 1-day work = (A+B)'s 1-day work - A's 1-day work.
=> 1/30 - 1/60 = 1/60
So, B's 1-day work = 1/60
Hence, B will complete the entire work alone in 60 days.

7. A sum of money at simple interest amounts to Rs. 2240 in 2 years and to Rs. 2600 in 5 years. What is the principal amount?
A. 1000
B. 1500
C. 2000
D. 2500
Explanation:
SI for 3 years = 2600-2240 = 360
SI for 2 years = 360/3 * 2 = 240

8. If a man rows at the rate of 6 kmph in still water and his rate against the current is 4.5 kmph, then the man's rate along the current is:
A. 6 kmph
B. 7.5 kmph
C. 6.5 kmph
D. 8 kmph
Explanation:
Let the rate along the current be x kmph.
Then, (x + 4.5)/2 = 6.
∴ x = 7.5.

9. Rs.900 is divided among Maya, Annie, Saiji so that Maya receives half as much as Annie and Annie half as much as Saiji. Then Saiji's share is:
A. Rs.200
B. Rs.300

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C. Rs.400  
D. Rs.600  

Explanation:

Let Saiji's share is x.

Then, Annie's share = x/2 and Maya's share = x/4.

Therefore, Maya: Annie: Saiji = x/4: x/2: x = 1: 2: 4.

Therefore, Saiji's share = Rs. 900 * 4/9 = Rs.400.

10. A rectangular carpet has an area of 60 sq.m. If its diagonal and longer side together equal 5 times the shorter side, the length of the carpet is:

A. 5m  
B. 12m  
C. 13m  
D. 14.5m  

Explanation:

Let, length= x meters and breadth= y meters  
Then xy=60 and (x^2+y^2) + x= 5  
Therefore, x=60 and (x^2 + y^2) = (5y-x) ^2.  
Or xy=60 and 24y^2-10xy = 0.  
Therefore, 24y^2 - 10 * 60 = 0 or  
=> y^2 = 25  
=> y = 5.  
Therefore, x= (60/5) m= 12m.  
So, length of the carpet = 12m

Robert Bosch Logical Reasoning Test

11. Analogy:

Apostate: Religion ::? ?

A. Potentate: Kingdom  
B. Traitor: Country  
C. Jailer: Law  
D. Teacher: Education  

Explanation:

Apostate -- a person who betrays or not faith in his/her religion  
Traitor -- a person who betrays his country.

12. Analogy:

Embarrassed: humiliated :: frightened:?  
A. terrified  
B. agitated  
C. courageous

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D. reckless
Explanation:
If someone has been humiliated, they have been greatly embarrassed. If someone is terrified, they are extremely frightened.

13. Syllogism:
Statement:
No trunks are ivories.
No toes are trunks
Conclusion:
(1) all toes are ivories
(2) some trunks are ivories
A. only conclusion 1 follows
B. only conclusion 2 follows
C. both 1&2 follows
D. neither 1 nor 2
Explanation:
a) No trunks are ivories. (Universal Negative-UN)  
and,
b) No toes are trunks. (Universal Negative-UN)  
UN + UN will not give any conclusion.

14. Coding-Decoding:
If COMPLETED is coded as MOCELPDET, then DIRECTION will be coded as:
A. RIDTCENOJ  
B. SIDTCENOI  
C. RIDTCENOI  
D. RIETCENOI
Explanation:
In given word, word is divided into three parts like  
COM+PLE+TED, then these parts are written in reverse order as MOC+ELP+DET  
So DIRECTION will be DIR+ECT+ION, which will be RIDTCENOI.

15. Coding-Decoding:
In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?
A. MFEDJJOE  
B. EOJDEJFM  
C. MFEJDJOE  
D. EOJDJEFM
Explanation:
There are 8 letters in the word.  
The coded word can be obtained by taking the immediately following letters of word, expect the first and the last letters of the given word but in the reverse order. That means, in the coded form the first
and the last letters have been interchanged while the remaining letters are coded by taking their immediate next letters in the reverse order.

16. Data-Sufficiency:
How many students are enrolled in Sastri’s Quant class?
(I). If 3 more students sign up for the class and no one drops out, more than 35 students will have enrolled in the class.
(II). If 4 students drop out of the class and no more sign-up, fewer than 30 students will have enrolled in the class.
A. if the question can be answered by using only statement I
B. if the question can be answered by using only statement II.
C. if the question can be answered by using both statements together, but cannot be answered using either statement alone.
D. if the question cannot be answered even by using both statements together.
E. if the question can be answered either statements alone

Explanation:
Statement I alone is not sufficient, but I does imply that at least 33 students are enrolled in the class. Statement II alone is not sufficient, but II does imply that no more than 33 students are enrolled in the class. Although neither statement alone is sufficient, the two statements taken together are sufficient to answer the question that the number of students enrolled in the class is 33.

17. Data-Sufficiency:
Question: Who among P, Q, R, S and T is the lightest?
(I) R is heavier than Q and T but lighter than S.
(II) S is not the heaviest.
A. I alone is sufficient while II alone is not sufficient
B. II alone is sufficient while I alone is not sufficient
C. Either I or II is sufficient
D. Neither I nor II is sufficient
E. Both I and II are sufficient

Explanation:
From I, we have: R>Q, R>T, S>R i.e. S>R>Q>T or S>R>T>Q.
From II, S is not the heaviest. So, P is the heaviest.
Thus, we have: P > S > R > Q > T or P > S > R > T > Q.
Hence, either T or Q is the lightest.

18. Direction & Distance:
Rita drives to the North of her place of stay at A and after traveling 25 km, finds that she has driven in the wrong direction she then turns to her right and travels 2 km and then she again turns to the right and drives straight another 25 km. How much distance has she now to cover to go back to the starting point?
A. 25 km
B. 2 km
C. 4km

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D. 40 km
Answer: B.

19. Find the next term of the series:
22, 21, 23, 22, 24, 23, ____?
A. 22
B. 24
C. 25
D. 26
Explanation:
In this simple alternating subtraction and addition series; 1 is subtracted, then 2 is added, and so on.

20. Find the missing term of the series:
8, 43, 11, 41, __, 39, 17
A. 8
B. 14
C. 43
D. 44
Explanation:
This is a simple alternating addition and subtraction series. The first series begins with 8 and adds 3; the second begins with 43 and subtracts 2.

**Robert Bosch Verbal Ability Test**

It is difficult to reconcile the ideas of different schools of thought on the question of education. Some people maintain that pupils of school should concentrate on a narrow range of subjects which will benefit them directly in their subsequent careers. Others contend that they should study a wide range of subjects so that they not only have the specialized knowledge necessary for their chosen careers but also sound general knowledge about the world they will have to work and live in. Supporters of the first theory state that the greatest contributions to civilization are made by those who are expert in their trade or profession. Those on the other side say that, unless they have a broad general education, the experts will be too narrow in their outlook to have sympathy with their fellows or a proper sense of responsibility towards humanity as a whole.

21. What is the passage about?
A. Reconciliation of two different ideas about education
B. Projecting two different ideas about education
C. Career-oriented education
D. Broad-based education
Answer: B.

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22. According to the passage which one of the following statements is true about broad general knowledge?
A. Without it no one would get a job
B. Specialization is incomplete without it
C. It teaches us about different things
D. It broadens one’s outlook
Answer: D.

23. Supporters of the first theory would not agree with
A. experts have contributed most to the progress in the modern world
B. students should study a few subjects that will help them in their profession
C. people with broad general education have not contributed much to civilization
D. students should not undertake any specialized work
Answer: D.

24. 'School of thought' can best be explained as
A. groups of people who are schooled to think
B. groups of people having different perception on a particular subject
C. groups of people belonging to different schools
D. groups of people whose job is to think
Answer: B.

25. According to the second school of thought education will not be very effective, if students
A. do not have a wide general education
B. have inadequate knowledge of their own work
C. ignore the study of fine arts
D. concentrate on only a few subjects
Answer: A.

26. Choose appropriate prepositions for the given sentence:
The instructions must be followed ________ the semester________ exception.
A. in, with
B. throughout, without
C. at, at
D. with, without
Answer: B.

27. Synonym:
HARBINGER
A. Messenger
B. Steward
C. Forerunner
D. Pilot
Answer: C.

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28. Antonym:
They carried out a desultory conversation, jumping from one subject to another.
A. methodical
B. impolite
C. independent
D. aimless
Explanation:
desultory means unmethodical, unsystematic.
So, opposite of desultory is methodical.

29. Sentence Arrangement:
P: Planed Earth is in urgent need of a healing touch to save it from the impending environment disaster.
Q: Which is why the ‘Earth Day’, Celebrated on April 2 every year, assumes such special significance.
R: The word over ambient standards of air and water pollution are likely to exceed the limits prescribed by the WHO and the impact of air pollution on cities could result in hundreds of thousands of premature deaths and millions of cases of hospitalization.
S: In India alone the cost of pollution when computed in health terms could exceed Rs. 5,000 crore per annum to cure health problems caused by it.
A. RSQP
B. PQSR
C. SQPR
D. SQRP
Answer: A.

30. Error Spotting:
On reaching the railway station (a)/ he was disappointed to learn (b)/ that the train left. (c)/ No error (d)
A. a
B. b
C. c
D. d
Explanation:
Replace with "that the train had left".