Question Paper -4

**(Total 40 questions)**

1) The total age of x and y is 15 years more than the total age of y and z. Z is how many years younger than x?

(a) 15 (b) 30 (c) Data inadequate (d) z is elder than x (e) none

2) Exhausting: Rejuvenating

a) Disturbing: Soothing

b) Cruel: Ruthless

c) Pitiful: Miserable

d) Vexing: Irritating

6) The speed of a boatman in still water is 9 km/hr. If its speed down the stream be 16 km/hr., then speed of the stream is:

a) 5.5 km/hr.

b) 7.5 km/hr.

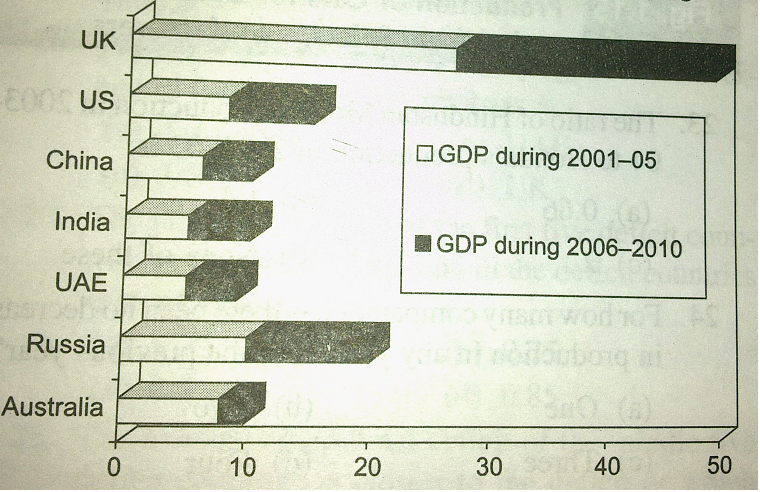
c) 6 km/hr.

d) 7 km/hr.

4) On what day of the week was Shiban born?

1. Shiban celebrated his birthday two days after his friend Amit celebrated his birthday.
2. Shiban’s sister was born on the fifth day of the week and 2 days after Shiban was born.

|  |  |
| --- | --- |
| [A.](javascript:%20void%200;) | I alone is sufficient while II alone is not sufficient. |
| [B.](javascript:%20void%200;) | II alone is sufficient while I alone is not sufficient. |
| [C.](javascript:%20void%200;) | Either I or II is sufficient. |
| [D.](javascript:%20void%200;) | Neither I nor II is sufficient. |
| [E.](javascript:%20void%200;) | Both I and II are sufficient. |

5) Study the following Bar Diagram and answer Q5A-Q5D. 

The above bar chart represents the GDP of different countries during half decades 2001-2005 and 2006 – 2010. All figures in Rs billion.

Q5A: Which of the countries listed below accounts for the highest GDP during the half decade 2001 to 2005?  
A. Russia B. China C. India D. UAE

Q5B: Which of the countries listed below accounts for the highest GDP during the half decade 2006 to 2010?  
A. UAE B. US C. India D. China

Q5C: Out of every Rs 10,000 spent during the decade 2001-2010, approximately how much was the GDP of Russia during the half decade of 2001-2005?  
A. Rs 700 B. Rs 1,400 C. Rs. 2,800 D. None of these

Q5D: The GDP of UAE is what fraction of GDP of UK for the decade (approximately)?  
A. 1/4th B. 1/5th C. 1/6th D. Data insuffiecient

6) Choose the correct answer that logically follow the main statement.

Either Ramesh is drunk or he is ill.

1. If Ramesh is ill then he is drunk.
2. If Ramesh is drunk the he is definitely not ill.
3. If Ramesh is not drunk then he is definitely ill.
4. Both c and d.
5. None of these.

7) B H M Q T ?

a.X b.U c.W d.V

Q8. Find the value of

(0.75 \* 0.75 \* 0.75 - 0.001) / (0.75 \* 0.75 - 0.075 +0.01)

A. 0.845 B. 1.908 C. 2.312 D. 0.001

9) Arrange sentences in meaningful order

1. The fight against corruption has often been dubbed as the second fight for our independence.
2. Most of us Indians have witnessed or experienced corruption in one form or the other.
3. This fight would be to weed out all forms of corruption from our society.
4. It is unless we, start doing something, only then would this evil be uprooted from our society.
5. Unless we raise our voice against it the government is just going to sit on it.
6. 25413 b) 24135 c) 54321 d)51324

10) Two friends appeared for an examination. One of them secured nine marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:

1. 39,30.
2. 43,34.
3. 42,33.
4. 41,32.

11) How many 5-digit numbers can be formed from the digits 1, 2, 3, 4, 5 and 6 which are divisible by 4 and none of the digits is repeated?  
A. 144 B. 168 C.192 D.NONE

12) How many terms are identical in the two APs 1, 3, 5 ... up to 120 terms and 3, 6, 9 ....up to 80 terms?A. 38         B. 39    C. 40    D. 41    E. 42

13) Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?   
A. 2 : 3 : 4 B. 6 : 7 : 8 C. 6 : 8 : 9 D. None of these

14) In terms of its widespread presence, obesity is a major ill-health in the US. There is no universally accepted standard for obesity. It is defined generally as an excess of adipose tissue (adipose tissue: 脂肪组织), but a common rule of thumb classifies people who are more than 20% above their desirable weight as obese. By this estimation, 30% of men and 40% of women in the US are obese. The occurrence of obesity in future generations can be reduced.

Adipose tissue is a triumph of evolution. Fat yields 9 calories per gram, while protein, like carbohydrates, yields only 4 calories per gram. Fat also contains much less water than protein does. Therefore, fat is much more efficient for storing excess energy than is protein. Primitive humans, with uncertain food sources, had a great need for excess fat, and their bodies adapted accordingly. Modern humans, with a predictable food supply and a sedentary life-style, are burdened by this vestige of evolution. Although they need some adipose tissue to provide insulation and protect internal organs from injury, modern humans need much less than their primitive ancestors did.

In an attempt to shed excess adipose tissue, many Americans turn from one fad diet to another, and a billion-dollar diet industry has grown up to aid them in their efforts. Nevertheless, the five-year cure rate for obesity is very low. In fact, by comparison, cancer is more curable. The reasons for this are psychological as well as physiological.

From a physical standpoint, losing a pound or two a week for a few weeks is not difficult because most of the loss is in the form of (in the form of: 以...的形式) protein and water, and protein carries four times its weight in water. However, protein is also the only source of nitrogen in the body, and when the body loses too much nitrogen, it acts to correct the imbalance by excreting less nitrogen than it takes in. Hence beyond a certain point additional weight loss must come from adipose tissue, which, because of its compactness, takes longer to shed. The body’s tendency to return to nitrogen balance and to protect its energy reserves can be so strong that dieters may stop losing or even gain weight while still expending more calories than they ingest. As a result, they frequently suffer not only from hunger, weakness, and a decreased metabolic rate, but also from depression and inactivity, all of which lead them to abandon their diets. Probably because of numerous psychological factors as well as physiological factors such as increased lipid synthesis, they then tend to regain weight rapidly.

While vigorous attempts to reduce obesity in America should be aimed at all affected, the most successful efforts are likely to be those directed toward children. If the advertising and food industries stop trying to sell high-calorie, nutritionally deficient food to children, and if parents understand that the feeding patterns they impose on their children can determine the adolescent and adult eating habits those children will develop, the future generation may not be as fat as ours is.

1. All of the following statements about protein are supported by the passage EXCEPT:

(A) Gram for gram, foods that are high in protein are lower in calories than foods that are high in fat.

(B) The body gets all of its nitrogen from protein.

(C) Nine grams of protein yield the same number of calories as 4 grams of fat.

(D) Protein is not converted into adipose tissue.（D）

(E) Five grams of protein carry 20 grams of water.

2. The author mentions that “cancer is more curable” (line 27) than obesity in order to

(A) Underscore the point that obesity is the leading disease in the United States

(B) Support the conclusion that it is easier to keep people from becoming obese than it is to cure them once they are

(C) Discourage obese people from trying to lose weight

(D) Demonstrate by analogy that more money should be spent on obesity research（B）

(E) Refute the contention that the causes of obesity are purely physiological

3. The passage contains information that answers which of the following questions?

(A) What percent of the total population in the United States is obese?

(B) What psychological factors cause people to gain weight rapidly once they go off a diet?

(C) What function does nitrogen perform in the body?

(D) How is an individual’s desirable eight determined?（E）

(E) If a snack bar contains 130 calories and 4 grams of fat, what percentage of the calories in the bar comes from fat?

4. The author mentions all of the following as factors that cause obese people to abandon diets EXCEPT (increased lipid synthesis不是放弃的原因，而是增肥的原因)

(A) Depression

(B) Increased lipid synthesis

(C) A negative nitrogen balance

(D) Enervation（B）

(E) A lower metabolic rate

15) As her curiosity and \_\_\_\_\_\_grew, she began \_\_\_\_\_\_ more difficult and distant caves.

1. Enthusiasm… exploring
2. Apathy…finding
3. Verve…examining
4. Energy…avoid
5. Eagerness….surveying

16) The difference between compound interest and simple interest on an amount of Rs. 15,000 for 2 years is Rs. 96. What is the rate of interest per annum ?

1. 8
2. 10
3. 12
4. None of these

17) In each of these questions, two statements are followed by two conclusions A and B. Assume the given statements to be true, even if they are at variance with commonly known facts. Choose the correct alternative from among A, B, C and D given below:

A. If only conclusion A follows.

B. If only conclusion B follows.

C. If both A and B follows.

D. If neither A and B follows.

Statements:

Evaporation causes cooling.

Coke is very cold.

Conclusions:

A. Some of the coke must have evaporated.

B. Coke offered in this restaurant is very cold.

18) Give synonym of Attempt

1. Serve
2. Explore
3. Try
4. Explain

19) Give synonym of TALLOW

A .common

B .visual

C .smear

D .trade

20) Ram and Shyam start driving cars in the same direction ay 36 kmph and 15 m/s respectively. In how many hours will they be 100 km apart??

1. 5 b. 1 c. 6 d. 4

21) In a bowl, there are coins of 50p, 10p and 5p in the ratio of 1: 2 : 3. If there is Rs. 30 in all, how many 5 p coins are there(approximately)?

A.50 B. 105

C.150 D. 200

|  |  |
| --- | --- |
| 4. | 22) Give antonym of  BUSTLE |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | Dance | | [B.](javascript:%20void%200;) | | laziness | | [C.](javascript:%20void%200;) | Rest | | [D.](javascript:%20void%200;) | | fuss | |  | |  | | |

23) “Since wars begin in the minds of men”, so runs the historic UNESCO Preamble, “It is the minds of men that the defence of peace must be constructed.” Wars erupt out when the minds of men are inflamed, when the human mind is blinded and wounded, succumbs to frustration and self-negation. War is the transference of this self-negation into the other negation. He three Indo-Pak wars and the persisting will to terrorise have emanated from this savage instinct to other-negation that is the legacy of the partition carnage and its still bleeding and unhealed wound.

Truncated from its eastern wing in 1971, Pakistan ever since has suffered from a sense of total existential self-negation. Plus the scars left by the total two previously lost wars to India and Kargil fill the Army and the Pakistan psyche with a seething urge to revenge; that India has to be negated, destroyed-in a deep psychological sense, another Hiroshima in the subcontinent is imaginable and possible. Terrorism in Kashmir springs from such deep negating extensible grounds. Like the former Soviet Union, Pakistan came into being as a result of a grand delusion and massive perversion of reality- the so called two-nation theory. Like the former Soviet Union, it stands in danger of crumbling unle4ss it modifies its reality perception and comes to terms with its post-Bangladesh identity within the prevailing subcontinental equation. Failing this, Pakistan is bound to break up, nudging the region to a nuclear nightmare, including possible South Asian Hiroshimas.

With ‘hot pursuits’ and ‘surgical operations’ freely making rounds among the policy elite and the public at large, the national atmosphere looks ominously charged.”On the brink”, headlines The Week adding, “As men and machines are quickly positioned by India and Pakistan, the threat of war looms real”. O which Gen.Mushraff counters, “If any war is thrust on Pakistan, Pakistan’s armed forces and the 140 million people of Pakistan are fully prepared to face all consequences with all their might”. According to Indian Express, “Pakistan has deployed medium range ballistic missile batteries (MRBBs) along the Line of Control (LoC) near Jammu and Poonch sectors in the action that will further escalate the tension between two countries.” And India’s Defence Minister ups the ante, “We could take a nuclear strike, survive and then hit back, Pakistan would be finished”, Mr.Frenandes’s formulation is certainly a tactical super shot, even a strategical super hit inasmuch as this is the very logic of India’s ‘No-first-strike’ doctrine. The Defence Minister obviously has no idea of ethical, phenomenological implication of the abandoning chunks of the population of ransom for potential Hiroshimas and then ‘finishing’ the neighboring country of 140 million in what could be nothing short of an Armsgeddon. Forget these horrendous scenarios. But this does not repudiate the grain of truth foe which India’s civilization stood for and vindicated across the untold millennia of its history? Yet, Mr.Fernandes, the pacifist and Gandhian,is no warmonger. As Defence Minister he had to react at a level with the Pakistanis, with their proclivity to drop nuclear speak whenever that suited them, could have registered the message.

1. According to the passage, Pakistan is bound to disintegrate
2. and it will throw the subcontinent into a nuclear backlash.
3. if it refuses to accept its present identity.
4. if it does not stop fuelling terrorism in Kashmir.
5. I, II and III are correct
6. II and III are correct
7. I and II are correct
8. I and III are correct
9. It can be inferred from the passage that
10. Soviet Union crumbled as a result of the grand delusion of the two nation theory.
11. Soviet Union’s disintegration was due to her failure to accept the reality.
12. Soviet Union also came into being as a result of the two nation theory.
13. The ideological basis of creation of Soviet Union and Pakistan was the same.
14. According to the passage, the reason for terrorism in Kashmir is
    1. Pakistan’s blind faith in terrorism.
    2. Pakistan’s perception of two-nation theory.
    3. Pakistan’s sense of self-negation.
    4. Both (a) and (c).
15. According to the passage,all the following about the Defence Minister is not true
    1. He is not logical.
    2. He is not a Gandhian.
    3. He is a pacifist.
    4. He is not a warmonger,
16. “No-first-strike” doctrine suggests that
    1. India will never strike with a nuclear weapon
    2. India would not intimate a nuclear strike.
    3. India will efficiently deter a nuclear strike with its nuclear weapons
    4. Both b and c.

24) In the following questions choose the word which is the exact OPPOSITE of the given words.

|  |  |
| --- | --- |
|  | WICKET |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | Red | [B.](javascript:%20void%200;) | Window | | [C.](javascript:%20void%200;) | Conclusion | [D.](javascript:%20void%200;) | Arch | |

25) Rating of importance of certain factors to production are given on a scale of 0 to 100, country wise.

| Country | Maintenance of plant | Technology | After sales service | Training |
| --- | --- | --- | --- | --- |
| USA | 80 | 95 | 90 | 95 |
| UK | 80 | 90 | 90 | 90 |
| Germany | 90 | 90 | 90 | 90 |
| Japan | 95 | 80 | 80 | 95 |
| India | 60 | 40 | 70 | 80 |

These factors comprise the "Production Rating Factor(PRF)" of a country. The weights of these factors contribution to PRF are

| Factor | Weight |
| --- | --- |
| Plant Maintenance | 0.3 |
| Technology | 0.4 |
| After sales service | 0.2 |
| Training | 0.1 |

A. The PRF for India is

A. 60 B. 56 C. 72 D. 84

B. If the PRF for UK should be made equal to the PRF for USA, to how much should the training for plant maintenance increased?

A. 88.33 B. 88 C. 87.33 D. 89

C. PRF for which country is the highest?

A. USA B. UK C. Germany D. Japan

D. In the PRF for India which factor makes highest effective contribution?

A. Plant maintenance B. Technology

C. After Sales Service D. Training

E. If only plant maintenance and technology are used to calculate PRF and each factor has equal weight of 0.5, which country will have highest PRF?

A. USA B. UK C. Germany D. Japan

26) How many ways can 4 prizes be given away to 3 boys, if each boy is eligible for all the prizes?

A. 256 B. 12 C. 81 D. None of these

Answers

1) Ans: (a)

Soln: (x+y) – (y+z) = 15

x-z = 15

2) Answer: Option a

3) Answer: (d)  
Explanation:

Speed of the boat downstream = 16 km/hr

Speed of the boat in still water = 9 km/hr

Let the speed of the stream = y km/hr

We have, 16 = 9 + y

y = 16 – 9 = 7 km/hr.

4) Answer and explanation

Answer: Option B

Explanation:

I does not mention the day of the week on the birthday of either Shiban or Amit.

According to II, Shiban's sister was born on Friday and Shiban was born two days before Friday i.e. on Wednesday.

5) A. Russia

A. UAE

D. None of these

B. 1/5th

6) Ans : d

7) Solution: d.V

Series starts with B, then skips 5, 4, 3, 2 and 1 letters to obtain next letter.

8) A. 0.845

9) a) 25413

10) Let their marks be (x + 9) and x. then  
x+9 = (56/100) (x + 9 + x)

=> 25(x + 9) =14(2x + 9)   
=> 3x = 99

=> x = 33, so their marks are 33 and 33 + 9 = 42

11) C.192

12) C. 40

13) A. 2 : 3 : 4

14) Solution:

|  |  |  |  |
| --- | --- | --- | --- |
| 1. 1.D | 2.B | 1. 3.E | 1. 4.B |

15) Enthusiasm… exploring

16) Ans : a

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | |  | | --- | |  | | 15000 | ( | |  |  |  |  |  | | --- | --- | --- | --- | --- | | [ | 1 + | R | ] | 2 | | 100 | | - 1 - | |  | | --- | | 2R | | 100 | | ) | = 96 |  |  |  | |
|  |
| |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | |  | | --- | |  | | 15000 |  | |  | | --- | | (100 + R)2-10000-200R | | 10000 | |  | = 96 |  |  |  | |
|  |
| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  | R2 = | |  | | --- | |  |   96 x 2 | = 64 |  |  |  | |  | 3 |  |  |  | |
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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  |  | |  | | --- | |  |    R = 8. |  |  |  | |  |  |  |  | |
|  |
| |  |  |  | | --- | --- | --- | |  |  | Rate = 8%. | |

17) [Option B]

18) Ans.C

19) Answer : Option C

20) Soln :

Ans : a

Speed of Ram = 36 kmph

Speed of Shyam = 15 × 18/5 = 54 kmph

* For every one hour Shyam covers 18 km more than Ram
* Time taken for them to be 100 km apart = 100/18 = 5 hours

21) Answer: Option B

Explanation:

Let the number of 50p, 10p and 5p coins be m, 2m, 3m respectively.

Then, sum of their values = Rs.50m +10 x 2m+ 5 x 3m = Rs. 85m

100 100 100 100

85m = 30 m = 30 x 100 = 35.

100 85

Hence, the number of 5 p coins = (3 x 35) = 105.

22)  ANSWER : option D

23) Answers.

1. (c)
2. (b)
3. (c)
4. (d)
5. (b)

24) Answer : option C

25) 1) B. 56

2) A. 88.33

3) C. Germany

4) A. Plant maintenance

5) C. Germany

26) c.81