CPC 1 Aptitiude/LR/English

1) Eight friends A, B, C, D, E, F, G and H like different stones – lapis,sapphire, ruby, pearl, topaz, opal, zircon and diamond. All of them are seated around a square table (two on each side) facing the centre. C sits third to the right of B. B likes ruby. G is sitting second to the left of F. F is not an immediate neighbor of C or B .The one who likes lapis in an immediate neighbor of F. Three people sit between B and the person who likes opal. B, C and also their immediate neighbor do not like pearl. Only one person sits between the person who likes pearl and D. The persons who like topaz and diamond are immediate neighbor of each other. C likes neither diamond nor topaz. Only one person sits between A and the person who likes sapphire. A does not like pearl or topaz. E does not like pearl.

1. Which of the following is true regarding H?
a) H like the opal.
b) F and C are immediate neighbors of H.
c) One person sits between H and D.
d) E sits second to the right of H

2. Who amongst the following likes topaz?
a) C b) B c) F d) E

3. How many person sit between B and the person who likes F, when counted in anti clock wise direction starting from B?
a) None b) One c) Two d) Five

4. Which of the following is true?
a) B likes opal.
b) There are three person between C and the person who likes zircon.
c) The person who likes lapis is an immediate neighbor of F.
d) One person sits between H and G.

5. If diamond is related to F, H is related to sapphire, in the same way topaz is related to?
a) D b) zircon c) diamond d) ruby

6) Swapnil is running at 9 kmph alongside a railway track is 240 meters ahead of the engine of a 120 meters long train running at 45 kmph in the same direction. In how much time will the train pass Swapnil ?
A) 48 sec B) 36 sec C) 18 sec D) 72 sec

7) Three cars leave A for B in equal time intervals. They reach B simultaneously and then leave for Point C which is 240 km away from B. The first car arrives at C an hour after the second car. The third car, having reached C, immediately turns back and heads towards B. The first and the third car meet a point that is 80 km away from C. What is the difference between the speed of the first and the third car ?

1) 60 kmph 2) 20 kmph 3)40 kmph 4)80 kmph

8) A train is traveling at 48 kmph . It crosses another train having half of its length , traveling in opposite direction at 42 kmph, in 12 seconds. It also passes a railway platform in 45 seconds. What is the length of the platform ?
A) 500 B) 400 C) 360 D) 480

9) Car A trails car B by 50 meters. Car B travels at 45km/hr. Car C travels from the opposite direction at 54km/hr. Car C is at a distance of 220 meters from Car B. If car A decides to overtake Car B before cars B and C cross each other, what is the minimum speed at which car A must travel?

A) 36 km/hr B) 45 km/hr C) 67.5 km/hr
D) 18 km/hr

10) A train for Trichy leaves for every 4 hrs 20 min from Chennai station. An announcement was made that train left 37 mins ago and next train comes at 17:00hrs. At what time was the announcement made ?

A) 13:17 hrs B) 13:07 hrs C) 13:37 hrs
D) 13:27 hrs

Choose the word most similar in meaning to the given word.

11) **Condescend**
a.Blame **b.**Resist **c.**Trick
d.Act Superior

12) **Friable**
a.Ductile **b.**Spurious **c.**Fragile **d.**Rigid

13) **Nadir**
a.Passable **b.**Apex **c.**Bottom **d.**Tolerable

14) **Rescind**
a.Change **b.**Revoke **c.**Repeat
d.Reconsider

15) **Incisive**
a.Mousy **b.**Sharp **c.**Inarticulate
d.Incoherent

Choose the word most nearly opposite to the given word.

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16) **Insidious**
a.Repellant **b.**Honest **c.**Charming **d.**Delicious

17) **Ignominious**
a.Laudable **b.**Ominous **c.**Dishonest **d.**Terrible

18) **Candid**
a.Unkind **b.**Blunt **c.**Valid **d.**Dishonest

19) **Flaunt**
a.Regard **b.**Sink **c.**Hide **d.**Propose

20) **Impediment**
a.Assistance **b.**Obstacle **c.**Hindrance **d.**Handicap

21) A car of length 4m wants to overtake a trailer truck of length 20m travelling at 36km/hr within 10 seconds. At what speed should the car travel?

A) 12 m/s B) 14.8 m/s C) 12.4 m/s D) 7.6 m/s

22) Two passenger trains start at the same hour in the day from two different stations and move towards each other at the rate of 16 kmph and 21 kmph respectively. When they meet, it is found that one train has traveled 60 km more than the other one. The distance between the two stations is ?

A) 387 kms B) 242 kms C) 145 kms D) 444 kms

23) How many seconds will a 500 m long train take to cross a man walking with a speed of 3 km/hr in the direction of the moving train if the speed of the train is 63 km/hr?

A) 25 B) 30 C) 40 D) 45

24) When Mirnal increases his speed from 20 Km/hr to 25 Km/hr, he takes one hour less than the usual time to cover a certain distance. What is the distance usually covered by him?

A) 125 km B) 100 km C) 80 km D) 120 km

25) Two stations A and B are 128 kms apart on a straight line. One train starts from A at 7 a.m and travels towards B at 20km per hour speed Another train starts from B at 8 a.m. and travels towards A at a speed of 28 Km per hour at what time will they meet?

A) 9 a.m B) 10 a.m C) 10:15 a.m
D) 9:30 a.m

26) A boat takes 19 hours for travelling downstream from point A to point B and coming back to a point C which is at midway between A and B. If the velocity of the stream is 4 kmph and the speed of the boat in still water is 14 kmph, what is the distance between A and B ?

A) 180 km B) 160 km C) 140 km D) 120 km

27) Abhishek travels from A to B, a distance of 200 Km at the speed of 40 Km/hr. At the same time, Chandu starts from point C at a speed of 20 Km/hr along a roadwhich is perpendicular to AB. Find the time in which Abhishek & Chandu will be closer to each other?

A) 1.5 hr B) 3.33 hr C) 5 hr D) 4 hr

28) Mrinal went downstream for 28 km in a motor boat and immediately returned. It took Mrinal twice as long to make the return trip. If the speed of the river flow were twice as high, the trip downstream and back would take 672 minutes. Find the speed of the boat in still water and the speed of the river flow.

A) 12 km/hr, 3 km/hr B) 9 km/hr, 3 km/hr
C) 8 km/hr, 2 km/hr D) 9 km/hr, 6 km/hr

29) A boat takes 2 hours to travel from point A to B in still water. To find out its speed upstream, which of the following information is/are required?

A. Distance between point A and B.
B. Time taken to travel downstream from B to A.
C. Speed of the stream of water.

A) Only A and B B) Only B and C
C) All are required
D) Any one pair of A and B, B and C or C and A is sufficient

30) Two trains A and B are 100 m and 150 m long and are moving at one another at 54 Km/hr and 36 Km/hr respectively. Arun is sitting on coach B1 of train A. Calculate the time taken by Arun to completely cross Train B.

A) 10 s B)6 s C) 4 s D)8 s

31) Ronit rows in still water with a speed of 4.5 kmph to go to a certain place and comes back. Find his average speed for the whole journey, if the river is flowing with a speed of 1.5 kmph?

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A) 2 kmph B) 4 kmph C) 6 kmph D) 8 kmph

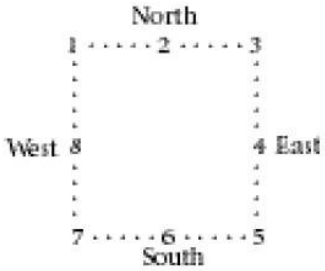
32) Shaloni's downstream swimming rate is thrice of her upstream swimming rate. If she covers 12 km upstream in 2.5 hours, what distance she will cover in 5 hours downstream?

A) 72 km B) 36 km C) 56 km D) 42 km

33) Cities M and N are 600km apart. Bus A starts from city M towards N at 9AM and bus B starts from city N towards M at the same time. Bus A travels the first one-third of the distance at a speed of 40kmph, the second one-third at 50kmph and the third one-third at 60kmph. Bus B travels the first one-third of the total time taken at a speed of 40kmph, the second one-third at 50kmph and the third one-third at 60kmph. When and where will the two buses cross each other?

A) 300 kms from M B) 280 kms from M
C) 305 kms from M D) 295 kms from M

A square parking lot has exactly eight lights—numbered 1 through 8—situated along its perimeter as diagramed below.



The lot must always be illuminated in such a way that the following specifications are met:

1.At least one of any three consecutively numbered lights is off.
2.Light 8 is on.
3.Neither light 2 nor light 7 is on when light 1 is on.
4.At least one of the three lights on each side is on.
5.If any side has exactly one of its three lights on, then that light is its center light.
6.Two of the lights on the north side are on.

34) Which one of the following could be a complete and accurate list of lights that are on together?

A) 1, 3, 5, 7 B) 2, 4, 6, 8
C) 2, 3, 5, 6, 8 D) 3, 4, 6, 7, 8
E) 1, 2, 4, 5, 6, 8

35) Which one of the following lights must be on?

A) light 2 B) light 4 C)light 5
D) light 6

36) If light 1 is off, which one of the following is a light that must also be off?

A) light 3 B) light 4 C) light 5
D) light 6 E) light 7

37) Which one of the following statements must be true?

A) If light 2 is on, then light 6 is off.
B) If light 3 is on, then light 2 is on.
C) If light 4 is on, then light 3 is off.
D) If light 5 is off, then light 4 is on.
E) If light 6 is off, then light 1 is on.

38) If light 5 is on, which one of the following could be true?

A) Light 1 is off and light 6 is off.
B) Light 1 is on and light 7 is on.
C) Light 2 is off and light 4 is on.
D) Light 2 is off and light 6 is off.
E) Light 6 is on and light 7 is on.

39) If light 4 is on, each of the following statements must be true EXCEPT:

A) Light 1 is on. B) Light 2 is on.
C) Light 5 is off. D) Light 6 is on.
E) Light 7 is off.

40) Suppose that it is no longer part of the specifications that two lights on the north side be on. If all of the other original specifications remain the same, and if exactly one light on the north side is on, which one of the following statements could be false?

A) Light 1 is off. B) Light 2 is on.
C) Light 3 is off. D) Light 4 is on.
E) Light 5 is on.