Refresher-2 (Clock, Syllogism, Average, Alligation & mixture)

Q1. The average of five numbers A, B , C, D and E is 150. If the average of the first three numbers A, B and C is 130, then the average of the last two numbers D and E is:

(a) 160 (b) 180 (c) 120 (d) 140

Q2. The average height of 23 boys is 1.2 m. When 3 boys leave the group, then the average height increases by 0.15 m. What is the average height of the 3 boys who leave?

(a) 0.5 m (b) 0.2 m (c) 0.45 m (d) 0.6 m

Q3. Three numbers are in the ratio of ½ : 2/3 : 3/4 . If the difference between the smallest and largest numbers is 36, find the numbers :

(a) 60, 72, 96 (b) 72, 84, 96 (c) 72, 84, 108 (d) 72, 96, 118 (e) None of these

Q4. A clock with only dot markings 3, 6, 9 and 12 positions has been kept upside down in front of a mirror. A person reads the time in the reflections of the clock as 12 : 30 the actual that will be

(a) 6 O' clock (b) 03 : 45 (c) 12 O'clock (d) 12 : 30

Direction for questions (5-14): In question, some statements are given, followed by two conclusions I and II.You have to consider the statements to be true, even if they seem to be at variance fromcommonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements. Indicate your answer.

Q5. **Statements:** All tubes are cubes.
No cube is the sky.
No bird is the sky.
Conclusions: I. No tube is the bird.
II. All birds being cubes is a possibility.
A. If only conclusion I follow B. If only conclusion II follow
C. If neither conclusion I nor conclusion II follows D. If both the conclusions follow
E. If either conclusion I or conclusion II follows.

Q6. **Statements:** No dancers are actors.
Some actors are artists.
No artist is artisan.
Conclusions: I. Some artists are not dancers.
II. Some artisans are not actors.
A. If only conclusion I follow B. If only conclusion II follow
C. If neither conclusion I nor conclusion II follows D. If both the conclusions follow
E. If either conclusion I or conclusion II follows.

Q7. **Statement:** All rivers are seas.

All lakes are seas.

Some seas are not oceans.

Conclusions: I. Some rivers are not lakes.

II. Some oceans may not be seas.

A. If only conclusion I follow   B. If only conclusion II follow

C. If neither conclusion I nor conclusion II follows   D. If both the conclusions follow

E. If either conclusion I or conclusion II follows.

Q8. **Statements:** Some plates are knives.

Some knives are bottles.

Many bottles are bowls.

Conclusions: I. Some plates are bowls.

II. Not a single plate is a bowl.

A. If only conclusion I follow   B. If only conclusion II follow

C. If neither conclusion I nor conclusion II follows   D. If both the conclusions follow

E. If either conclusion I or conclusion II follows.

Q9. **Statements:** All radios are electric goods.

All table lamps are electric goods.

Conclusions: I. Some radios are table lamps.

II. Some table lamps are radios.

A. If only the conclusion I follow.   B. If only conclusion II follows.   C. If either I or II follows.

D. If neither I nor II follows.   E. If both I and II follow

Q10. **Statements:** No man is a monkey.

John is a man.

Conclusions: I. John is not a monkey.

II. John may or may not be a monkey.

A. If only the conclusion I follow.   B. If only conclusion II follows.   C. If either I or II follows.

D. If neither I nor II follows.   E. If both I and II follow

Q11. **Statements:** A graduate is a man.

This thief is a graduate.

Conclusions: I. This thief is a man.

II. Some men are thieves.

A. If only the conclusion I follow.   B. If only conclusion II follows.   C. If either I or II follows.

D. If neither I nor II follows.   E. If both I and II follow

Q12. **Statements:** Only first-divisioners are admitted.

Ram is a first-divisioner.

Conclusions: I. Ram is admitted.

II. Only Ram is admitted.

A. If only the conclusion I follow.   B. If only conclusion II follows.   C. If either I or II follows.

D. If neither I nor II follows.   E. If both I and II follow

Q13. **Statements:** Men are sinners.
Saints are men.
Conclusions: I. Saints are sinners.
II. Sinners are saints.
A. If only the conclusion I follow.   B. If only conclusion II follows.   C. If either I or II follows.
D. If neither I nor II follows.   E. If both I and II follow

Q14. **Statements:** No wire is pin.
Some pins are mugs.
Conclusions: I. All mugs being wires is a possibility.
II. Some mugs are not wires.
A. Only I follow   B. Only II follows   C. If either I or II follows
D. If neither I nor II follows   E. If both I and II follow

Q15. At what time between 5 and 6 are the hands 8 minute spaces apart?
A. 24 min past 5   B. 30 min past 5   C. 36 min past 5   D. 20 min past 5

Q16. A watch which gains uniformly is 6 min slow at 5 p.m. on Monday. On the following Monday at 9 am, it was 10 min 40 seconds fast. When was it correct?
A. 8 : 36 pm. on Thursday   B. 2 : 36 am on Thursday
C. 2 : 36 pm. on Thursday   D. 8 : 36 am on Thursday

Q17. At what angle are the hands of a clock inclined at 30 minutes past 8?
A. 95°   B. 75°   C. 92°   D. 97.5°

Q18. The average marks of a class of 35 children is 35. The marks of one of the students, who got 35, was incorrectly entered as 65. What is the correct average of the class?
A. 28.20   B. 34.14   C. 38.14   D. 42.21

Q19. A student finds the average of ten 2 digit numbers. While copying numbers, by mistake, he writes one number with its digits interchanged. As a result his answer is 1.8 less than the correct answer. The difference of the digits of the number, in which he made mistake, is:
A. 6   B. 4   C. 3   D. 2

Q20. Acid and water are mixed in a vessel A in the ratio of 5 : 2 and in the vessel B in the ratio 8 : 5. In what proportion should the quantities be taken out from the two vessels so as to form a mixture in which the acid and water will be in the ratio of 9 : 4?
A. 7 : 4   B. 7 : 2   C. 2 : 7   D. 2 : 3

Answer key

1	B	5	B	9	D	13	A	17	B
2	B	6	A	10	A	14	B	18	B
3	E	7	B	11	E	15	C	19	D
4	A	8	E	12	D	16	B	20	B