

# Proctored Mock CAT 6

## Answers and Explanations

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1	c	2	d	3	b	4	c	5	a	6	b	7	d	8	d	9	b	10	b
11	b	12	a	13	c	14	d	15	c	16	b	17	a	18	b	19	b	20	c
21	b	22	d	23	a	24	b	25	c	26	d	27	d	28	c	29	c	30	b
31	c	32	c	33	b	34	d	35	a	36	d	37	b	38	d	39	c	40	b
41	b	42	a	43	d	44	b	45	c	46	a	47	d	48	b	49	d	50	c
51	b	52	c	53	b	54	c	55	b	56	b	57	a	58	d	59	b	60	c

**For questions 1 and 2:**

1. c Change in the net profit in 07 – 08 over the previous year =  $[3,009 - 7,806] = 4,797$   
Change in Total Revenue =  $[38,053 - 39,715] = 1,662$

So the answer is  $\frac{4797}{1662} \times 100 = 288.63\%$

2. d The total expenditure  
in 04 – 05 =  $36,090 - 10,183 = 25,907$   
in 05 – 06 = 31,237  
in 06 – 07 = 31,909  
in 07 – 08 = 35,044  
in 08 – 09 = 35,237  
So the increase in the total expenditure over the previous year is the highest in 05 – 06. The increase is 20.6%.
3. b Only two shopkeepers A and D remain on the same side of the lane after relocation.  
D must be at the lower-right corner and A must be in the middle of the upper side. The following two arrangements are possible:

F A E

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C B D

E A F

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B C D

So C would be opposite either A or F.

4. c **From Statement A:**  
The only conclusion that can be derived is that A must be 2 years old. The ages of other four people would be any four values among 5, 7, 13, 19, 31, 43.

**From Statement B:**

The ages of B, C, D and E would have multiple possibilities like:

11, 13, 17 and 19

7, 19, 31 and 43 etc.

So the age of E cannot be determined on the basis of this statement.

**Combining Statement A and Statement B:**

The only possible cases for the ages of B, C, D and E are:

7, 31, 19 and 43

7, 19, 31 and 43

The age of E would be 43 years.

5. a Only Batsman 1 has scored more runs than Batsman 2 after playing exactly 50 matches.

6. b There are only two such batsmen, Batsman 1 (Rank 1) and Batsman 5 (Rank 5).

7. d  $n^n > 1$  for all  $n > 1$   
 $n^n < 1$  for all  $n < 1$  ( $n \neq 0$ )

**From Statement A:**

$n = n^3$  is possible only for  $n = -1$  or  $1$ .

For  $n = 1$ ,  $n^3 = n^2$ .

Hence  $n = -1$ . So  $n^n < 1$ .

Statement A alone is sufficient to answer the question.

**From Statement B:**

$n^3 - 6n^2 + 11n - 6 < 0$

$(n - 1)(n - 2)(n - 3) < 0$

$\Rightarrow n \in (-\infty, 1) \cup (2, 3)$

But it is given that  $n$  is an integer.

So, the above reduces to:

$n < 0$

So,  $n^n < 1$ .

Statement B alone is sufficient to answer the question.

**For questions 8 to 10:**

**Team – 1**

Player	Possible Positions	Deduced Positions
A	P-0 / P-90	P-0
B	P-45 / P-180	P-180
C	P-90	P-90
D		P-135
E	P-45 / P-90	P-45
F	P-0 / P-Base	P-Base

**Team – 2**

Player	Possible Positions	Deduced Positions
P	P-45 (if T is at P-Base) / P-135	P-135
Q	P-Base / P-0	P-0
R	P-45 (if A plays at P-90) / P-Base	P-Base
S		P-90
T	P-Base / P-180	P-180
U	P-90 (if E plays at P-90)	P-45

8. d As Team-1 has scored 3 goals against Team-2 and conceded 2 goals, the players of Team-1 must have rotated twice in counter-clockwise direction and that of Team-2 thrice. So the players at position P-90 are A and R for Team-1 and Team-2 respectively.

9. b The players of a team come back to their initial positions (the ones at the start of the match) after conceding six goals. As Team-1 concedes 31 goals, the players must have come back to their initial positions 5 times.

10. b Since the difference in points scored is a multiple of 6, A and Q must be at P-Base for their respective teams at the moment. So S must be playing at P-45.

11. b If the 2nd hour has 4 minutes then the valid times would be 1:00, 1:01, 1:02 and 1:03 and there would be no 1:04. Since 1:04 is a valid time, the 2nd hour is either 5 or 6 minutes long.

Thus the options for the number of minutes in the various hours are:

1<sup>st</sup> hour of the day - 1, 2, 3, 4, 5, 6 min

2<sup>nd</sup> hour of the day - 5, 6 min

3<sup>rd</sup> hour of the day - 4, 5, 6 min

4<sup>th</sup> hour of the day - 2, 3, 4, 5, 6 min

5<sup>th</sup> hour of the day - 3, 4, 5, 6 min

6<sup>th</sup> hour of the day - 4, 5, 6 min

Solving this we can see that the 5th hour has 3 minutes.

12. a **From the main statement:**

The number of cars can be:

1 red, 4 white

or 1 red, 3 white, 1 black

or 1 red, 2 white, 2 black.

But '1 red, 4 white' cars is not a possible case because then in every possible arrangement at least one car will have both cars of same colour adjacent to it.

**From Statement A:** The possible number of cars is 1 red (R), 1 black (B) and 3 white (W).

And the possible arrangements are:

P1	P2	P3	P4	P5
W	B	R	W	W
W	W	B	R	W
W	R	B	W	W
W	W	R	B	W

In each arrangement a white car is parked at P<sub>1</sub>.

So the question can be answered using statement A alone.

**From Statement B:** The possible arrangements are RBBWW or WBBRW and many more. Hence, the colour of the car parked at P1 cannot be determined.

So the question cannot be answered using statement B alone.

13. c **Statement 1** cannot be true because if K<sub>1</sub> opens L<sub>3</sub> in the 2nd attempt, then there is no key available to open L<sub>1</sub>.

#### Statement 2

One of the possible cases that satisfies Statement 2:

K<sub>1</sub> → L<sub>1</sub>

K<sub>2</sub> → L<sub>4</sub> failed attempt

K<sub>2</sub> → L<sub>2</sub>

K<sub>3</sub> → L<sub>4</sub>

K<sub>4</sub> → L<sub>3</sub>

Hence, Statement 2 can be true.

**Statement 3** cannot be true because if K<sub>3</sub> opens L<sub>2</sub> in the 3rd attempt then only one key K<sub>4</sub> and one lock L<sub>4</sub> are left which would be opened in the next i.e. the 4th attempt. This is not possible since all the locks have to be opened in exactly 5 attempts.

#### Statement 4

One of the possible cases that satisfies Statement 4:

K<sub>1</sub> → L<sub>1</sub>

K<sub>2</sub> → L<sub>2</sub>

K<sub>3</sub> → L<sub>3</sub> failed attempt

K<sub>3</sub> → L<sub>4</sub>

K<sub>4</sub> → L<sub>3</sub>

Hence, Statement 4 can be true.

#### For questions 14 to 16:

The number of objects in Box 1 and Box 2 must be at least 3 each. There must be at least 2 objects in Box 3 as well. So the number of objects in Box 4 can be either 1 or 2.

The following cases of the distribution of objects are possible:

		Box 1	Box 2	Box 3	Box 4
Number of objects	Case 1	3	3	3	1
	Case 2	4	3	2	1
	Case 3	3	4	2	1
	Case 4	3	3	2	2

14. d As the number of objects in Box 2 and Box 3 are the same, only Case 1 can be followed here.

Statement 2 indicates that the only object in Box 4 would be one of C, D, H and J. But it cannot be C (Statement 1).

Hence, E must be in either Box 1 or Box 2.

Also, A and B cannot be with I in Box 3 (Statement 2 will be violated).

Hence, A and B must be in Box 2. Also, C and F must be in Box 1 with E.

The final distribution would look like:

Box 1	Box 2	Box 3	Box 4
E, C, F	A, B, H/J	I, D, G	J/H

Hence, G and D must be placed together in Box 3 along with I.

15. c The information given in the question indicates that either Case 2 or Case 3 would be valid. Since I is in Box 3 (Statement 3), there must be exactly 1 more object in Box 3. That object cannot be one of C, F, A, B (Statement 1), H, G, J and E (Statement 3). So that object is definitely D.

The only object in Box 4 (third object in 'gift') must be J. C and F must be in Box 1 (Statement 1) and H and G both must be in Box 2 (as C and H cannot be together). The following two ways of distribution are possible:

	Box 1	Box 2	Box 3 (gift)	Box 4 (gift)
Way 1	C, F, A, B	E, G, H	I, D	J
Way 2	C, F, E	A, B, G, H	I, D	J

Statements I and II are always true; Statement III would not be true if distribution is done according to Way 2.

16. b The information given in the question indicates that Case 4 would be valid here.

Both Box 3 and Box 4 must have two objects each. Since E is in Box 1 and exactly one out of C, H, J and D must also be in Box 1, we can conclude that both A and B must be in Box 2.

C and F are either in Box 1 or in Box 4. D must be placed in Box 3 with I as none of C, H and J can be in Box 3.

The following ways of distribution are possible:

	Box 1	Box 2	Box 3	Box 4
Way 1	E, C, F	A, B, H	I, D	G, J
Way 2	E, C, F	A, B, J	I, D	G, H
Way 3	E, G, H	A, B, J	I, D	C, F
Way 4	E, G, J	A, B, H	I, D	C, F

Statements II and IV are definitely true. Statements I and III may or may not be true.

#### For questions 17 to 20:

Since at least one student from each stream does not buy the set of books, the percentage of students buying the set of books can never be 100 in any stream.

If the percentage of students in Science stream buying the set of books is less than or equal to 60 then the total number of students in Science stream will have to be equal to or more than 540. This is not possible because then the number of students from the remaining 3 streams will be less than or equal to 360, which in turn will be less than the number of students buying the sets of books from the other three streams.

If the percentage of students in Science stream buying the set of books is either 70 or 80, then the total number of students in Science stream is not an integral multiple of 10.

Hence, the percentage of students buying the set of books in Science stream must be 90 and the total number of students in Science stream must be 360.

Similarly, the percentage and the total number of students in the other streams can be found out:

	Number of Students	Percentage of students buying the set of books
Science	360	90
Medical	270	80
Arts	180	70
Commerce	90	60

$$p + q = n + s = o + r = m + t = 90$$

$$p + r = n + t = o + s = 80$$

$$q + r = p + s = 70$$

$$q + s = 60$$

Solving the equations, we get:

$$m = 80 \quad q = 40$$

$$n = 70 \quad r = 30$$

$$o = 60 \quad s = 20$$

$$p = 50 \quad t = 10.$$

17. a Since Chemistry books are purchased by the students of Science, Medical and Arts stream only, the total number of Chemistry books bought by the students of Class XII =  $324 + 216 + 126 = 666$

18. b

19. b

20. c The total number of students who buy G4 =  $288 + 162 + 90 + 36 = 576$   
The total number of students who buy E3 =  $216 + 189 + 72 = 477$   
Hence the difference is  $576 - 477 = 99$ .

21. b The value of each interior angle of a regular polygon is  $180 - \frac{360}{n}$  degrees. If this is an integer, then n can only take all odd values which are factors of 360 ( $3^2 \times 5 \times 2^3$ ).

There are 6 odd factors of 360. One of the factors is 1. Since 1 cannot be the number of sides of a polygon, it means that n can take 5 values.

$$22. d \quad S = \frac{1}{\sqrt{1} + \sqrt{5}} + \frac{1}{\sqrt{5} + \sqrt{9}} + \frac{1}{\sqrt{9} + \sqrt{13}} + \dots + \frac{1}{\sqrt{117} + \sqrt{121}}$$

$$\Rightarrow S = \frac{\sqrt{5} - \sqrt{1}}{4} + \frac{\sqrt{9} - \sqrt{5}}{4} + \frac{\sqrt{13} - \sqrt{9}}{4} + \dots + \frac{\sqrt{121} - \sqrt{117}}{4}$$

$$\Rightarrow S = \frac{(\sqrt{5} + \sqrt{9} + \sqrt{13} + \dots + \sqrt{121}) - (\sqrt{1} + \sqrt{5} + \sqrt{9} + \dots + \sqrt{117})}{4}$$

$$= \frac{\sqrt{121} - \sqrt{1}}{4} = \frac{11 - 1}{4} = \frac{5}{2}$$

23. a If the five cities are arranged like five beads in a necklace, we can achieve the desired condition.

Hence, the answer is  $\frac{(5-1)!}{2!} = 12$ .

24. b One such number is 1 which has no factor other than itself.

If the number has only one prime factor i.e. it is of the form  $p^a$  where  $p$  is a prime number and  $a$  is a natural number, then according to the question:

$$(a+1)^2 = p^a$$

This is possible only if  $a = 2$  and  $p = 3$ . So the number is 9.

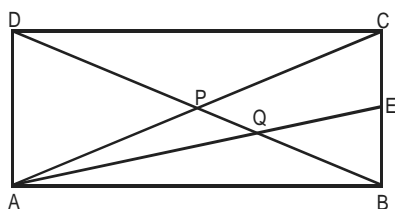
If the number has two prime factors then it would be of the type  $p^a \times q^b$ , where  $p$  and  $q$  are two distinct prime numbers. Then according to the question:

$$(a+1)^2(b+1)^2 = p^a \times q^b$$

This is possible only if  $p$  and  $q$  are both 3. Since they are different, this is not a valid case. So there would not be such case with two or more prime factors.

So there are only two such integers - 1 and 9.

25. c



If the area of the rectangle ABCD is 24, then the area

$$\text{of } \triangle ABC = \frac{24}{2} = 12.$$

As BP is the median of  $\triangle ACB$ ,

$$\text{Area of } \triangle ABP = \frac{12}{2} = 6$$

Also, since P and E are the midpoints AC and BC respectively, Q is the centroid of  $\triangle ABC$ .

Therefore, BQ : QP = 2 : 1.

$$\text{So area of } \triangle APQ = \left(\frac{1}{3}\right) \triangle ABP = \left(\frac{1}{3}\right) \times 6 = 2.$$

26. d A contains 401 elements in all, whose sum is zero. So 2 elements, whose sum is either 1 or -1, must be left out to form the subsets.

If the sum is 1 the elements would be (0, 1) (-1, 2) (-2, 3).....(-199, 200) i.e. 200 ways.

If the sum is -1 the elements would be (-1, 0) (-2, 1) (-3, 2) .....(-200, 199) i.e. 200 ways.

The total number of subsets is 400.

27. d Let  $y = |x - 2| + |x - 5| - |7 - 2x|$ .

$$\text{When } x = 1 \quad y = 0$$

$$x = 2 \quad y = 0$$

$$x = 3 \quad y = 2$$

$$x = 4 \quad y = 2$$

$$x = 5 \quad y = 0$$

$$x = 6 \quad y = 0$$

$$x = 7 \quad y = 0$$

$$x = 8 \quad y = 0$$

The value of  $y$  would be 0 for all values of  $x$  except  $x = 3$  and  $x = 4$ .

So value of  $y$  cannot be 96 for any integer value of  $x$ .

28. c The value would be minimum if the values of  $a_1, a_2, a_3, \dots, a_8$  are -8, 8, -8, ..., 8.

So the minimum possible value of the expression is -512.

29. c On the  $n^{\text{th}}$  day, Prince saves

$$= (n^2 + 2) - (n + 14)$$

$$= n^2 - n - 12$$

On the 12th day, he would save Rs. 120 i.e. more than Rs.100 for the first time.

30. b Let  $x = I$ , where  $I$  is an integer.

According to the question:

$$2I + 5 = 9x$$

$$\Rightarrow 2I + 5 = 9I$$

$I = 5/7$  which is not possible since  $I$  is an integer.

Now, let  $x = I + f$ , where  $I$  is an integer and  $0 < f < 1$ .

$$2I + f + 5 = 9(I + f)$$

$$\Rightarrow 2(I + 1) + 5 = 9I + 9f$$

$$\Rightarrow f = \frac{7 - 7I}{9}$$

$$\Rightarrow 0 < \frac{7 - 7I}{9} < 1$$

$$\Rightarrow \frac{-2}{7} < I < 1$$

$$\Rightarrow I = 0$$

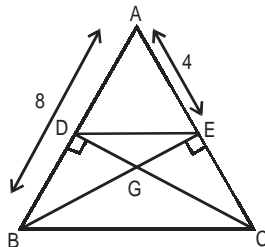
$$\text{If } I = 0, x = \frac{7}{9}.$$

Hence, there is only 1 real solution.



31. c If the smaller number is  $4k$  then the larger number must be  $4k + 4 = 4(k + 1)$ .  
Now,  $k$  and  $k + 1$  are always co-prime.  
So, the L.C.M. =  $4 \times k \times (k + 1)$ .  
Maximum possible value of  $k$  such that the L.C.M. is a three-digit number is  $k = 15$ .  
So the smaller number is  $4 \times 15 = 60$ .

32. c



$\square DECB$  is a cyclic quadrilateral.

$$\angle ADE = \angle ACB$$

$$\angle AED = \angle ABC$$

Therefore,  $\triangle ADE$  is similar to  $\triangle ACB$ .

$$\therefore \frac{\text{Area of } \triangle ADE}{\text{Area of } \triangle ACB} = \left(\frac{4}{8}\right)^2 = \frac{1}{4}$$

$$\therefore \text{Ratio of area of } \square DECB \text{ to area of } \triangle ABC = \frac{3}{4}$$

33. b Let  $f(x) = kx$ , where  $k$  is a constant.  
So  $g(x) = 2k$  for  $x \geq -2$ .  
 $= -2k(x + 1)$  for  $x < -2$ .

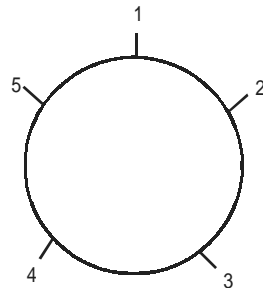
34. d The 6 digit numbers in Binary System are from 100000 to 111111. There are 5 digits after the first digit. Each digit can be filled by either "0" or "1". So in effect there are 32 numbers. And so there would be  $32 \times 5 = 160$  digits. Since both "0" and "1" are equally probable in any position, the number of "0"s must be  $(1/2) \times (160) = 80$ .

Similarly, in the numbers from 10000 to 11111, the number of "0"s would be  $(1/2) \times (16)(4) = 32$ .  
For numbers from 1000 to 1111 it is  $(1/2) \times (8)(3) = 12$ .  
For numbers from 100 to 111 it is  $(1/2) \times (4)(2) = 4$ .  
And for 2 digit numbers it is 1.

So in all there are 129 zeroes.

35. a As there are 5 A's, the middle letter i.e. the 6<sup>th</sup> letter should be A only. Out of the first 5 places, 2 should have A's and 3 should have B's. The last 5 places are arranged accordingly.  
Hence, the answer is  ${}^5C_2 = 10$ .

36. d The ant starts from point 5.



1st Movement  $5 \rightarrow 1$

2nd Movement  $1 \rightarrow 2$

3rd Movement  $2 \rightarrow 4$

4th Movement  $4 \rightarrow 1$

3 Movements

5th Movement  $1 \rightarrow 2$

6th Movement  $2 \rightarrow 4$

7th Movement  $4 \rightarrow 1$

3 Movements

and so on

$\vdots$

2010 movements would be  $(1 + 3 \times 669 + 2)$  movements.

So the final movement would be  $2 \rightarrow 4$ .

So after 2010 movements the ant would be at point 4.

37. b In two years there can be a maximum of 731 days i.e. 104 weeks and 3 extra days. So the maximum possible sum of the number of Tuesdays and Wednesdays would be  $104 \times 2 + 2 = 210$ .
38. d Let Mrs. Choudhari's age be  $F$  and Mr. Choudhari's age be  $M$ . Let the ages of their children be  $a - 1, a, a + 1$ .  
According to the question:  
 $a - 1 + F = 67$  ... (1)  
 $a + a + 1 + M = 92$  ... (2)  
 $M - F = 5$  ... (3)  
From this we get:  
 $M = 55, F = 50$   
Sum =  $F + M = 105$ .

39. c Let the base radius be  $r$  and the total height of the cone (without cut) be  $nr$  (where  $n$  is a constant).

$$V = \frac{1}{3} \pi r^2(nr) = \frac{n}{3} \pi r^3$$

Let the radius at the beginning of the 1st day be  $r_1$ .

$$\text{So, } \frac{n}{3} \pi r_1^3 = V - \frac{2V}{3} = \frac{V}{3} = \frac{n}{9} \pi r^3$$

$$\Rightarrow r_1 = \frac{r}{3^{1/3}}$$

$$\text{Area at the beginning of the 1st day} = A_1 = \pi r_1^2 = \frac{\pi r^2}{3^{2/3}}$$

Volume lost to evaporation on the 1st day

$$= V_1 = \frac{2V}{3} - \frac{V}{2} = \frac{V}{6}$$

It is also given that:

$$\frac{V_1}{A_1} = \text{constant} = K \text{ (say)}$$

Similarly, radius at the beginning of the 2nd day

$$= r_2 = \frac{r}{2^{1/3}}$$

$$\text{Area at the beginning of the 2nd day} = \frac{\pi r^2}{2^{2/3}}$$

Volume lost to evaporation on the 2nd day

$$= KA_2 = \frac{K \pi r^2}{2^{2/3}} = \frac{V_1}{A_1} \frac{\pi r^2}{2^{2/3}} = \frac{V}{6} \left( \frac{3}{2} \right)^{2/3}$$

40. b Let the speed of the escalator be  $s$  steps/second.

Since Mohit moves at 3 steps/sec, he will take 30 seconds to reach the bottom; and in 30 seconds the escalator will take  $30s$  steps. So the total number of steps in the escalator =  $90 + 30s$ .

Since Sonal moves at 1 step/sec, she will take 60 seconds to reach the bottom; and in 60 seconds the escalator will take  $60s$  steps. So the total number of steps in the escalator =  $60 + 60s$ .

$$\text{So } 90 + 30s = 60 + 60s$$

$$\text{Hence, } s = 1.$$

$$\text{So the number of steps in the escalator} = 120.$$

41. b The options for the first blank are very close in meaning. Clearly, there is something about the publishers' attitude that worries authors. This indicates that we need a somewhat negative word for the second blank. If the publishers are not publishing books that do not 'excite' or 'stimulate' the market it does not

explain the writers' concern. 'Titillate' which means 'to arouse, tease, interest, or excite pleasurably and often superficially' carries a negative connotation and fits here. You can also take a clue from "not bold enough".

42. a This question essentially boils down to a choice between options (a) and (d). Option (b) can be eliminated, as 'monitor' would be idiomatically incorrect in the first blank. Option (c) would also be incorrect, as we need an adverb in the second blank and 'stealthy' is an adjective. The first word in both options (a) and (d) can fit the first blank. However, in the second blank, between 'surreptitiously' and 'slyly', surreptitiously would be more appropriate as it means 'by clandestine means or secretly' whereas slyly also carries the additional connotation of 'cunningly' which is not indicated in the paragraph.
43. d Option (d) is the only one where the words fit the sentences idiomatically.
44. b The answer can be inferred from the last line in the passage "*She was expressing something more than just the thrill of a concert. She was saying that the Communists were truly gone. That we were finally free to do as we pleased.*"
45. c All the other options are mentioned in the passage. Options (a) and (d) can be inferred from "*Czechoslovakians had been urged for four decades to sacrifice their inner dreams to the collective happiness of the masses. People who went their own way — rebels — often ended up in jail.*" Option (b) is supported by "*The concert was held in the same stadium where the Communist government used to hold rallies and organize parades. My classmates and I had spent endless hours in that stadium, marching in formations that, seen from the stands above, were supposed to symbolize health, joy and the discipline of the masses.*"
46. a Options (c) and (d) were the reasons stated by the communists to oppose 'The Rolling Stones'. From the author's tone these do not seem to be the actual reasons why the band was opposed. Also, the passage does not give us any information to substantiate these claims. Option (b) is not completely supported by the passage. The author mentions that the band was unlike mellow Czechoslovakian music. But this cannot be inferred as being a reason for the communists to oppose it. In fact, 'traditional Czech themes' is too broad a categorization. They are not mentioned anywhere in the passage. Option (a) can be inferred from these lines in the passage. "*Czechoslovakians had been urged for four decades to sacrifice their inner dreams to the collective happiness of the masses. People who went their own way — rebels — often ended up in jail. That night in August, waiting for the Rolling Stones to come on stage, we felt like rebels.*"



47. d The correct usage is 'runaway inflation'.
48. b Since we are talking about a specific key, the correct usage should have been 'in the key of C major'.
49. d The passage starts the discussion with the information that China has now become the world's second-biggest economy but the writer chooses to discuss the repercussions of this for Asia. He/she goes on to discuss the relations between India and China and cautions that these relations could become very important. Thus, option (d) is the best choice. Option (a) comes the closest but it is too broad in scope to convey the central theme of the passage. The implications of China becoming the second biggest economy could have been discussed in any way but the passage has an Asian perspective which the option neglects.
50. c Option (c) can be inferred. Refer to the lines - "*In terms of size and population, each is a continent—and for all the glittering growth rates, a poor one.*" Option (a) cannot be inferred as the passage does not mention whether India has also dominated its neighbours. Option (b) can also be eliminated as the passage only mentions India being paranoid about China. Option (d) is also incorrect as it is not mentioned in the passage whether India is also viewed as a threat by Western countries.
51. b The writer starts discussing how there will be a contest between China and India. However, he/she later points out that "*In the short term its other foreign relationships may matter more, even in Asia: there may, for instance, be a greater risk of conflict between rising China and an ageing but still powerful Japan. Western powers still wield considerable influence.*" Thus, when the author says, "So caveats abound" he/she is saying that the contest between India and China may not be that important. Option (b) expresses that.
52. c Sentence A is incorrect as it has a subject-verb agreement error. It should be "infection that *leaves* people susceptible". In statement B there should be an article before "role in the disease". Statement C is similarly missing a determiner before 'link', "study suggests that this link is real".
53. b Statement A is incorrect. 'Bursted' is an incorrect word. It should be 'burst'. Statement D is incomplete as it needs a determiner before 'headwind'. It should have been 'a strong headwind'.
54. c Option (c) is supported by the passage. Refer to these lines in the third paragraph "*Too often, they also confirm that the hardest hit are always the poor*". Option (a) cannot be inferred as the passage simply says that certain images fail to move us. We cannot infer that human beings are apathetic. Option (b) is not mentioned anywhere in the passage. Option (d) is also out of the scope of the passage as the passage is concerned with photo-reportage. It does not discuss documentaries.
55. b According to the passage "*the images that shake us most present their audience with conundrums, bringing into our sightline paradoxical juxtapositions.*" If we look at the example of the pictures of the Israeli soldier, the author again mentions, "*we are faced at once with the intensely familiar and the totally extraneous and abhorrent.*" Option (b) would therefore be the most effective image.
56. b Option (b) best expresses the central idea in the passage. The passage analyses why certain types of images fail to evoke sympathy in us and what types of images will be more effective. Option (a) is not suitable as the author does not address the question of whether photo-reportage is effective or not. He/she seems convinced that it is not effective.
57. a Statement B begins the discussion on palliative care. Statements D and E take the idea further by describing what it includes. We can therefore narrow down options to (a) and (c). They differ only with regard to the placement of statement C. Statement C describes 'Hospice care', or intensive palliative care which might include completely abandoning medical treatment. Therefore, it cannot be put together with statements D, E and A as they clearly include medical care.
58. d The crucial link to solve this para-jumble is the pair (B-A). Statement B is clearly the opening sentence as it introduces both the person (Welles) as well as the place (Hollywood). That leaves us with options (a) and (d). Statement A should come after statement B as it begins the narrative "From the moment he arrived there". Therefore, BAECD is the correct order.
59. b Statements (C-E) and (A-B) form mandatory pairs. Statements C and E describe the author's opinion on the use of colour. Statements A and B talk about Al Hirschfeld and his artwork. Statement D should come after statements (A-B) as it gives an example of the 'spare' artwork mentioned in B.
60. c Statements (A-E) outline the objective – tackling demand for drugs. Statements C, D and B describe the example of Portugal where drug use has been decriminalized.