Unproctored Mock-2 2011

1. Five sentences are given below, labeled A, B, C, D and E. They need to be arranged in a logical order to form a coherent paragraph/passage. From the given options, choose the most appropriate one.
    A. Capping it all was a row about the legitimacy of holding election events in government property.
    B. Not a problem, the Labour party insisted, for this was a PFI hospital and thus commercial property.
    C. Gordon Brown then set out his manifesto in front of a peculiar mixture of party supporters and journalists, some of whom were jeered for asking impertinent questions.
    D. The stage seemed set for a typical, if rather embarrassing, New Labour event.
    E. In a Birmingham hospital, Soul Man blasted out while the likes of Pat McFadden and Bob Ainsworth fumbled in choreographed order towards their seats.
    (a) DEACB   (b) DECAB   (c) EBADC   (d) EDCAB

2. Five sentences are given below, labeled A, B, C, D and E. They need to be arranged in a logical order to form a coherent paragraph/passage. From the given options, choose the most appropriate one.
    A. Far worse than even in some poor African countries.
    B. This remains an area of grave concern: opening the cages will not solve the problems of basic education and health so public private partnerships may be needed.
    C. Literacy, infant mortality, life expectancy, poverty and every other social indicator was always far worse in socialist India than in Asian miracle economies.
    D. So, the socialist cage gave Indians neither economic growth nor social justice.
    E. Vast sums of spent on health and education were wasted; teachers and health staff had an absenteeism rate of 18 % to 58 % but were protected from disciplinary action by strong trade unions.
    (a) EDCAB   (b) BACED   (c) CAEDB   (d) EDBCA

3. Five sentences are given below, labeled A, B, C, D and E. They need to be arranged in a logical order to form a coherent paragraph/passage. From the given options, choose the most appropriate one.
    A. Hakim Ali argued against the use of tobacco: "It is not necessary for us to follow the Europeans, and adopt a custom, which is not sanctioned by our own wise men without experiment or trial."
    B. Here instinct worked better than reason but worked well enough!
    C. The fact that fact may not be infallible, especially in the presence of uncertainty, is well illustrated by an episode regarding the then newly arrived practice of smoking tobacco.
    D. Armed with that argument , Akbar tried smoking, but happily for him , he took an instant dislike of it and never smoked again.
    E. Akbar ignored this argument on the ground that "we must not reject a thing that has been adopted by the people of the world, merely because we can't find it in our books; or else how shall we progress."
    (a) CEBDA   (b) CAEDB   (c) CADEB   (d) AEBDC

Directions for questions 4 to 6: The passage given below is followed by a set of three questions. Choose the most appropriate answer to each question.

Okay, I'm getting tired of it now. If 'A Lion Among Men' were the second book in "The Wicked Years," I would have probably liked it as much as I liked the actual second book in "The Wicked Years." It's a similar formula: take a not-terribly-sympathetic minor character and flesh him out in context. It's the Cowardly Lion's backstory this time. We saw Brrr (did Baum name him that?) in a couple of brief cameos in Wicked, and now it's an illumination of the life lived in between being a motherless cub and a surprised, chucked-aside adult member of the Dorothy team, as well as some events after. More engagingly, Maguire also fleshes out several of the bizarre bit players that have been circling the margins of the story till now.

And really, more of this and less of that, please. It starts off well, with a heretofore rare Yackle point of view, a scene from the scarred eyes of the old bat that's been pestering the characters with prophetic catcalls for a couple of books now. She demands her fellow nuns to lower her into the crypt, to hasten the end of the burden of her life and sweep her out after a year. The suicide is a near-comical, near-chilling failure. Deliciously macabre, ("wicked"), which is not my go-to place for entertainment, but a hell of an entrance in this case. The other secondary characters are almost this good too, but soon enough we're with the Lion again, and his personal history gets the, ...Lion's share of print. Some new folds in the character are revealed, and it wasn't badly done, but it more colored in the outline of his character than expanded it. And it costs us readers 200 pages of retreading old backstory, even while the author is telegraphing a larger plot and doing nothing about it. Now that these Oz books are a committed series instead of an entertainingly revisionist standalone, now that it's a story arc in other words, there's an entirely different pacing at play. Or maybe it was all fine, and it was just too soon to get back in.

The history of the Cowardly Cub picks up after his escape from the University lab, and he finds himself in the wilderness, subsisting without meat, and, Frankenstein-like, without language. He picks up the art of words by spying on humans, and boy, he's quick with that. The author isn't about to let inexperience get in the way of a few good puns or a little witty banter. Like Shelley's creature, or like old Quasimodo, the young Lion craves acceptance, and commits love straightaway, which, due to his disconnectedness from the world, has brutish results. Neither does he fit in with Oz's disenfranchised talking Animals, and his life flits between the spheres, from an uncomfortable society Animal, to an uncomfortable outcast. Poor Brrr isn't quite as likable as he might be. He has a tendency for vanity, self-absorption and conflict-avoidance, but it's clear they'd have only ever been venial sins were he not pushed around by circumstances. The tragedies aren't so much that people suffer for his failures to act, but rather that he keeps ending up in situations where his inaction matters. A hard thing to illustrate.

4.   Which of the following is not used by the author as a justification or reason why the novel 'A lion among men' becomes boring or less interesting for him?
     (a) The fact that the books of the "The Wicked Years" fall into a series which is maintained in a committed fashion instead of creating something entirely new.
     (b) The author builds a larger plot which could have been developed well instead of the lion "Brr's" backstory.
     (c) The new aspects in the personal history of the lion do not add anything significant to the depth of the lion's character.
     (d) The lion "Brr.." is a character with brief cameos in earlier novels, who has been made the "major character" in the present novel.

5. All of the following can be inferred from the passage **except:**
   1. Brr feels like an outcast basically due to his being a motherless cub.
   2. People do not suffer when Brr fails to act, but at the same time Brr keeps ending up in situations where his actions have adverse consequences.
   3. The lion receives exaggerated importance to the detriment of secondary characters.
   4. Brr's tendency for vanity, self-absorption and conflict avoidance would not have been a sin had he not been pushed around by circumstances.
   (a) 1 and 2   (b) 2 and 3   (c) 1 and 3   (d) 1, 3 and 4

6. Which of the following is NOT a part of the story in the novel "A lion among men" according to the author?
   (a) A suicide attempt which gives a gruesome yet humorous feel.
   (b) Humour brought out in spite of constraints.
   (c) A readily likeable protagonist who evokes immediate sympathy due to his being an outcast.
   (d) A protagonist who is surprisingly quick to acquire linguistic skills despite his circumstances.

7. A paragraph is given below from which the last sentence has been deleted. From the given options, choose the one that completes the paragraph in the most appropriate way.

   What's interesting is that very little of the outrage focuses on the assassination itself. By now, the West has accepted that Israelis will track down and assassinate terrorists no matter where in the world they hide. And, in the post 9/11 era, few people seem to mind. It is widely accepted that terrorists can rarely be brought to justice and convicted by courts of law. _____

   (a) Last month an 11-member hit team dispatched by Israel's Mossad travelled to Dubai and assassinated Mahmoud al-Mabhouh, a Hamas military commander.
   (b) All this has lessons for India.
   (c) So, an assassination often seems like the most effective option.
   (d) America infiltrates terror groups, encourages them to fight with each other, kidnaps and whisks away important terrorists.

8. A paragraph is given below from which the last sentence has been deleted. From the given options, choose the one that completes the paragraph in the most appropriate way.

   As society often reminds us, a woman never really has a home to call her own. As a young girl she lives in her father's home and as a married lady, she occupies her husband's. So, which is the home she can rightfully claim as hers? The answer is obvious – the one she buys for herself. More and more women are making this crucial decision and putting down their own money for a roof over their heads. _____
   (a) From sweepers to surgeon, women in the workforce are increasingly breaking away from past tyrannies and asserting their right to live life on their own terms.
   (b) It frees them from that ghastly insecurity of staying in relationships that may not be in their interest.
   (c) 'My house...my card...my pc...my money....'— the operative word here is 'my'.
   (d) This new equation is not restricted to 'people like us' – this change is cutting across all divides.

9.   A paragraph is given below from which the last sentence has been deleted. From the given options, choose the one that completes the paragraph in the most appropriate way.

Here are a few scenes from a revolution: In early February, Barack Obama ended a six-month press-conference drought by taking questions from YouTube. When a madman crashed his plane into a Texas office building a couple of weeks later, the White House responded on its blog.

(a) In response, Obama's advisers have had to remake the rules of presidential p.r.
(b) But the White House has proved to be a harder perch from which to dominate the conversation.
(c) During the 2008 campaign, Obama's team had been able to exploit new technologies as no political campaign had before.
(d)   And during the bipartisan summit on health reform, press secretary Robert Gibbs used Twitter to keep score.

Directions for questions 10 to 12: The passage given below is followed by a set of three questions. Choose the most appropriate answer to each question.

Germany's impressive flexibility is the consequence of old virtues combined with new ones. The old consensus-building management system helped employers keep unions on side when costs needed to be held down. The famous Mittelstand (small and medium-sized firms, often family-owned) went through its operations, step by step, judging what to do in Germany, what to send abroad and what to outsource.

At the same time, economic policy took a new, liberalising, direction. The Schröder government introduced reforms to the labour market and welfare systems in 2003-04; spurred on by those, and by competitive pressures from Europe's single currency, German business ruthlessly held down real wages. Unit labour costs fell by an annual average of 1.4% in 2000-08 in Germany, compared with a decline of 0.7% in America and rises of 0.8% and 0.9% in France and Britain respectively. Although last year's recession hit Germany hard, its economy is in much better shape now than it was a decade ago—a point that should be noted in France, where President Nicolas Sarkozy has taken to railing against outsourcing, and in southern Europe, which bends over backwards to preserve overgenerous wages and restricted labour markets.

Germany is rightly proud of its ability to control costs and keep on exporting. But it also needs to recognise that its success has been won in part at the expense of its European neighbours. Germans like to believe that they made a huge sacrifice in giving up their beloved D-mark ten years ago, but they have in truth benefited more than anyone else from the euro. Almost half of Germany's exports go to other euro-area countries that can no longer resort to devaluation to counter German competitiveness.

While Anglo-Saxons were throwing money around, Germans kept saving. Domestic investment has not kept pace. The result of Germans' prowess at exporting, combined with their reluctance to spend and invest, has been huge trade surpluses. Germany's excess savings have been funnelled abroad—often into subprime assets in America and government bonds in such countries as Greece. It would be absurd to maintain that a prudent Germany is responsible for Greece's profligacy or Spain's property bubble (though a few heroic economists have argued this). But it is true that, within a single-currency zone, habitual surplus countries tend to be matched by habitual deficit ones.

Imbalances cannot be sustained for ever, whether they are deficits or surpluses. Yet surplus countries tend to see themselves as virtuous and deficit countries as venal—the implication being that the burden of adjustment should fall on the borrowers. Germany's response to the troubles of Greece, Spain and other euro-area countries has followed just such a line. A bail-out for Greece, once taboo, is now being debated— and German ministers have even come out in favour of a putative European Monetary Fund. But the idea that Germany should itself seek to adjust, through lower saving and higher consumption and investment, still seems unacceptable to Angela Merkel's government.

10. The author would agree with which of the following?
    A. People of Germany should save less and spend more so that the surplus of Germany reduces.
    B. It is Germany's exports that have been responsible for the economic downslide of Spain and Greece.
    C. The quality of goods exported from Germany is very high and countries used to go for the devaluation method in order to restrict the flow of German goods into their country.
    (a) Only A   (b) B and C   (c) A and C   (d) A and B

11. Which of the following cannot be inferred from the passage ?
    (a) Germany has favoured helping the deficit euro –area countries with bail-out plans as it believes itself to be partly responsible for their state of affairs.
    (b) Germany has favoured bail-out plans and other moves to help the deficit euro- area countries in line with its policy that these countries are solely responsible for their state of affairs.
    (c) Germany has not resorted to any internal adjustments to remedy its huge trade surplus and low consumption as it refuses to accept any responsibility for the state of affairs in its neighbouring countries.
    (d) Countries with surplus of money tend to have a positive view of themselves and a negative view of countries with deficit.

12. All of the following can be inferred from the passage **except:**
    (a) Germany's flexibility is a result of its old consensus–building management system and its new liberalising trade policies.
    (b) France is adopting a negative stance against outsourcing as a result of the recession.
    (c) As a result of the recession, Southern Europe is considering limiting   its overgenerous wages and opening up its restricted labour markets.
    (d) Germany's policy of holding down real wages has contributed significantly to its superior economic condition.

13. The word given below has been used in sentences in four different ways. Choose the option corresponding to the sentence in which the usage of the word is **incorrect or inappropriate**.

    Lay
    (a) Bombers lay waste to enemy cities during wars.
    (b) We will have to lay over in Paris on our way to London.
    (c) The army was supposed to lay siege on the city till the enemy surrendered.
    (d) The experts studied the lay of the land to determine if the location was suitable for the new production facility.

14. The word given below has been used in sentences in four different ways. Choose the option corresponding to the sentence in which the usage of the word is **incorrect or inappropriate**.

Fall
(a) Credulous people fall prey to swindlers
(b) Politicians fall over themselves to please their voters during elections.
(c) I had to fall back on my savings when I was fired.
(d) Many underprivileged people fall in the cracks of our Healthcare system.

Directions for questions 15 to 17: The passage given below is followed by a set of three questions. Choose the most appropriate answer to each question.

I did my first degree in Oxford. In my final examination, I was asked about my future plans. I replied, if you give me a first class degree, I will go to Cambridge. If I only get a second, I will stay in Oxford. They gave me a first. I arrived in Cambridge as a graduate student in October 1962. I had applied to work with Fred Hoyle, the principal defender of the steady state theory and the most famous British astronomer of the time. I say astronomer because cosmology was at that time, hardly recognized as a legitimate field, yet that was where I wanted to do my research, inspired by having been on a summer course with Hoyle's student, Jayant Narlikar. However, Hoyle had enough students already, so to my great disappointment, I was assigned to Dennis Sharma, of whom I had not heard. But it was probably for the best. Hoyle was away a lot, seldom in the department, and I wouldn't have had much of his attention. Sharma, on the other hand, was usually around and ready to talk. I didn't agree with many of his ideas, particularly on Mach's principle, but that stimulated me to develop my own picture.

When I began research, the two areas that seemed exciting were cosmology and elementary particle physics. Elementary, particles was the active, rapidly changing field that attracted most of the best minds, while cosmology and general relativity were stuck where they had been in the 1930s. Feynman has given an amusing account of attending the conference on general relativity and gravitation in Warsaw in 1962. In a letter to his wife, he said, "I am not getting anything out of the meeting. I am learning nothing. Because there are no experiments, this field is not an active one, so few of the best men are doing work in it. The result is that there are hosts of dopes here and it is not good for my blood pressure. Remind me not to come to any more gravity conferences!"

Of course, I wasn't aware of all this when I began my research. But I felt that elementary particles at that time, was too like botany. Quantum electro dynamics, the theory of light and electrons that governs chemistry and the structure of atoms, had been worked out completely in the 40s and 50s. Attention had now shifted to the weak and strong nuclear forces between particles in the nucleus of an atom, but similar field theories didn't seem to work. Indeed, the Cambridge school, in particular, held that there was no underlying field theory. Instead, everything would be determined by unitarity, that is, probability conservation, and certain characteristic patterns in the scattering. With hind sight, it now seems amazing that it was thought this approach would work, but I remember the scorn that was poured on the first attempts at unified field theories of the weak nuclear forces. Yet it is these field theories that are remembered and the analytic S matrix work is forgotten. I'm very glad I didn't start my research in elementary particles. None of my work from that period would have survived.

Cosmology and gravitation, on the other hand, were neglected fields that were ripe for development at that time. Unlike elementary particles, there was a well defined theory, the general theory of relativity, but this was thought to be impossibly difficult. People were so pleased to find any solution of the field equations, they didn't ask what physical significance, if any, it had. This was the old school of general relativity that Feynman encountered in Warsaw. But the Warsaw conference also marked the beginning of the renaissance of general relativity, though Feynman could be forgiven for not recognizing it at the time.

15. Why was cosmology not a popular field for research?
    1. Not much development had occurred in the field of cosmology and general relativity after the 1930s.
    2. It was extremely difficult and its physical significance was not recognized.
    3. There was nothing that could be learnt as it was an inactive field and there were no experiments being conducted.
    (a) Only 1   (b) 1 and 2   (c) 1and 3   (d) 2 and 3

16. Which of the following is a suitable title for the passage?
    (a) Revival of Cosmology
    (b) Cosmology and Elementary Particle Physics in mid 1900s
    (c) My life in Physics
    (d) Revival of general relativity

17. Which of the following statements is/are true according to the passage?

    1. Cambridge was wrong in criticizing field theories in elementary particle physics.
    2. Gravitation and Theory of Relativity was ignored because of lack of physical evidence.
    3. Hoyle would have been better guide for the author had he (Hoyle) been more often available at the campus.
    (a) Only 1   (b) 1 and 2   (c) 1 and 3   (d) Only 3

18. Four sentences are given below, labeled A, B, C and D. They need to be arranged in a logical order to form a coherent paragraph/passage. From the given options, choose the most appropriate one.

    A. The greatest turbulence never destroyed all elements of the old order.
    B. Unlike America or Australasia, Europe is an old continent, in the sense that it has a long and continuous history of some two thousand years.
    C. Even when it suffered severe changes and considerable disintegration, as during the barbarian invasion of the fifth century, enough of its past always survived to provide real continuity.
    D. Beneath the patchwork suggested by a political map showing the division of Europe into states, there was a vast substratum of historical heritage and continuity.
    (a) BDCA   (b) DABC   (c) ABCD   (d) BCAD

19. Given below are four sentences or parts of sentences that form a paragraph. Identify the sentence(s) or part(s) of sentence(s) that is/are incorrect in terms of grammar and usage. Then, choose the most appropriate option.

1. The Georgian windows in Bishop Terrick's dining room looks out on to the gardens of Fulham Palace.
2. This building, once the summer retreat of the Bishops of London, is now a museum and event venue.
3. Today it's host to musicians who patiently peer out of one of the windows.
4. From the outside they're framed through clouds of wisteria and look suitably romantic.

(a) Only 1   (b) 2 and 3   (c) 1 and 4   (d) 1 and 2

20. Given below are four sentences or parts of sentences that form a paragraph. Identify the sentence(s) or part(s) of sentence(s) that is/are incorrect in terms of grammar and usage. Then, choose the most appropriate option.

1. The movie begins with Elia Suleiman as grown man sitting alone in a taxi from an airport being driven at night by an Israeli cabbie.
2. A storm blows up and the surrounding countryside was cloaked in rain and fog.
3. Briefly illuminated by flashes of lightning, the country is suddenly unfamiliar to both driver and passenger.
4. The cab stops besides the road and both men, ignoring the law, light cigarettes.

(a) 1, 2 and 4   (b) 1 and 2   (c) 1 and 4   (d) All are incorrect

Directions for questions 21 to 24: Answer the questions on the basis of the information given below.

The following tables show the batting performance of the Australian Cricket Team in a match. Table 1 indicates the score of the team at the fall of each wicket (from 1 to 10). Table 2 gives the runs scored by the 11 batsmen and the order in which they appeared in the batting line up.

Fall of Wicket	Total Score
1	25
2	34
3	42
4	57
5	62
6	75
7	82
8	86
9	99
10	110

S. No.	Batsman	Runs Scored
1	Hayden	28
2	Gilchrist	7
3	Ponting	8
4	Symonds	4
5	Hussey	20
6	Hodge	3
7	Lee	18
8	Johnson	5
9	White	0
10	Clark	11
11	Williams	6

<center>Table - 1</center> <center>Table - 2</center>

Additional Information:

- At any point there are two batsmen on the field, till the fall of the 10th wicket. Whenever the team loses a wicket, the new batsman comes as per the batting order. E.g. If one of the openers gets out, the no. 3 batsman takes the field.

- A partnership between any two batsmen is the number of runs scored while both of them are batting.

21. How many batsmen lost their wicket between Hayden's and Hussey's dismissal?
    (a) 0 (b) 1 (c) 2 (d) More than 2

22. How many runs were scored by the batsman who was the 9th to be dismissed?
    (a) 11 (b) 18 (c) 0 (d) Cannot be determined

23. What was the percentage contribution to the second highest partnership of the batsman to be dismissed first in that partnership?
    (a) 33.33% (b) 61.53% (c) 71.43% (d) None of these

24. The Australian total comprised only 'Singles' and 'Fours'. The number of Fours scored cannot exceed
    (a) 27 (b) 24 (c) 21 (d) 20

Directions for questions 25 to 27: Answer the questions on the basis of the information given below.

The following data pertains to the profiles of 100 students who have appeared for the 'Selection Process' of a B-School, ISW College in the year 2009.

1. Each student has written exactly one of the two tests LAT or BAT, and every one of them has at least one of the two features - Good Academic Record (GAR) or Extra Curricular Activities (ECA).
2. No student who has written LAT has both GAR and ECA.
3. Sixty percent (60%) of the students who have appeared for the Selection Process have written LAT, of which 40% have Work Experience.
4. Fifty percent (50%) of the students who have appeared for the Selection Process have Work Experience, of which 30 students have GAR.
5. The number of students who have written BAT and also have both Work experience and GAR is 20.
6. The number of students who have written LAT and also have GAR is 25.
7. The number of students who have ECA but have no Work Experience is 35.

Note: The questions that follow are for the year 2009 only.

25. Out of all the students who have appeared for the Selection Process of ISW College, how many have written BAT and have Work Experience and GAR, but no ECA?
     (a) 10   (b) 15   (c) 20   (d) Cannot be determined

26. Out of all the students who have appeared for the Selection Process of ISW College, what is the maximum possible number of students who have GAR and who have also written BAT but have no Work Experience?
     (a) 10   (b) 12   (c) 14   (d) Cannot be determined

27. Out of all the students who have appeared for the Selection Process of ISW College, what is the total number of students who have written LAT and have ECA?
     (a) 31   (b) 35   (c) 28   (d) Cannot be determined

28. The question given below is followed by two statements, A and B. Mark the answer using the following instructions:
     Mark (a) if the question can be answered by using one of the statements alone, but cannot be answered by using the other statement alone.
     Mark (b) if the question can be answered by using either statement alone.
     Mark (c) if the question cannot be answered even by using both the statements together.
     Mark (d) if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.

     Q. There are six brothers Steven, Gerrard, Wayne, Rooney, Frank and Lampard. Each brother has a different age. If Steven is the oldest then who is the youngest among the six brothers?

     A. Rooney, who is not the youngest brother, has the same number of brothers younger than him as the number of brothers who are younger than Frank but older than Lampard.
     B. Wayne has at least 3 brothers older than him. The number of brothers older than Wayne is the same as the number of brothers younger than Gerrard.

Directions for questions 29 to 31: Answer the questions on the basis of the information given below. The following table shows the sales figures of the four brands of laptops - HP, Compaq, IBM and Sony in the various regions of the world. The figures are given either in absolute numbers or as percentage of the total sales in the region. Assume that no other brand of laptops is present in the given regions. Based on the given table, answer the questions that follow.

	HP	Compaq	IBM	Sony
North Asia	4960	18%	14%	480
East Europe	19%	630	22%	17%
West Europe	32%	13%	19%	2160
North America	4260	9%	12%	8%
South America	5%	1260	990	20%
East Africa	225	484	517	128
West Africa	180	26%	900	2250
South Asia	450	4050	1350	35%
Australia	25%	32%	14%	754

29. What is the total number of laptops sold by IBM across all the regions combined?
    (a) 7431   (b) 12680   (c) 8451   (d) 7831

30. The ratio of laptops sold in South Asia, West Africa and East Europe is
    (a) 3 : 6 : 1   (b) 3 : 6 : 2   (c) 6 : 3 : 1   (d) 3 : 2 : 1

31. Which of the following options is/are true?
    I.   Total sales of Laptops in South America is 3000 units.
    II. Sales of IBM in East Africa is 25% more than sales of HP in West Africa.
    III. The ratio of sales of Compaq in North America to the sales in South America is 3 : 7.
    (a) Only I   (b) I and II   (c) I and III   (d) II and III

32. Four friends James, Cliff, Lars and Dave decide to watch a movie together. Each of them arrives at the movie theatre at a different time. It is also known that:
    1. If James arrives before Cliff then Lars definitely arrives before Dave.
    2. If Cliff arrives before Lars then James definitely arrives before Dave.

    If James arrives before Lars then who cannot be the second person to arrive?
    (a) James   (b) Cliff   (c) Lars   (d) Dave

33. The question given below is followed by two statements, A and B. Mark the answer using the following instructions:
    Mark (a) if the question can be answered by using Statement A alone, but cannot be answered by using Statement B alone.
    Mark (b) if the question can be answered by using Statement B alone, but cannot be answered by using Statement A alone.
    Mark (c) if the question cannot be answered even by using both the statements together.
    Mark (d) if the question can be answered by using either statement alone.
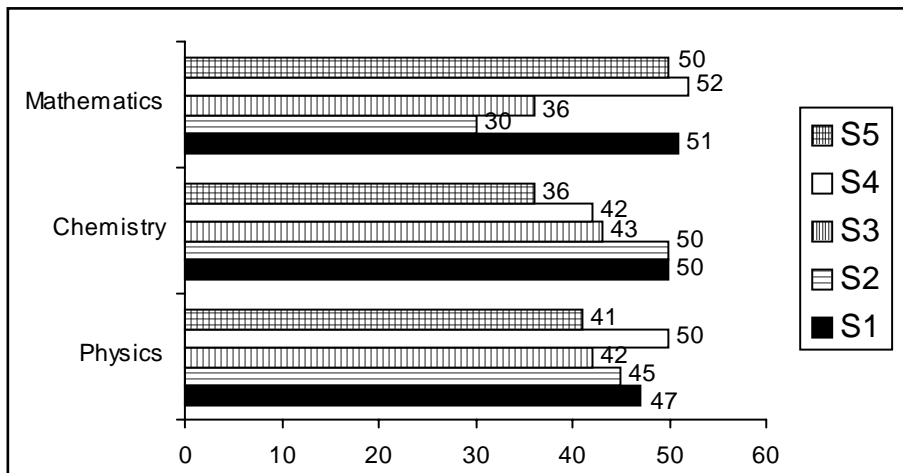
    Q. What is the value of 'x'?
    A.   'x' is a real number and 'x' satisfies the equation $|x - 1.5| + |x - 2.5| + |x - 3.5| = 2$.
    B.   'x' is a natural number and 'x' satisfies the equation $|x - 5| + |x - 10| + |x - 15| + |x - 20| = 20$.

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34. There are four persons Kurt, Cobain, Jim and Morrison out of whom two always lie and the other two always speak the truth. Each of the four persons makes a statement which is given below.
Kurt: Cobain lies.
Cobain: Jim lies.
Jim: Kurt speaks the truth.
Morrison: Exactly two out of Kurt, Cobain and Jim lie.
Who can be the liers?
(a) Kurt and Cobain (b) Cobain and Morrison
(c) Kurt and Jim (d) Either (b) or (c)

Directions for questions 35 to 37: Answer the questions on the basis of the information given below.
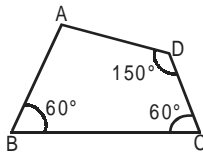
The bar graph given below shows the marks obtained by five students - Anup, Himanshu, Sudip, Vishal and Rohan in three subjects - Physics, Chemistry and Mathematics. The five students are disguised as S1, S2, S3, S4 and S5, in no particular order. Rohan's total score in all the three subjects combined was 4 marks more than that of Himanshu. Anup obtained 50 marks in Chemistry.

35. Who is disguised as S3?
(a) Himanshu (b) Vishal (c) Sudip (d) Cannot be determined

36. Given below are two Statements based on the data provided in the question. Choose the most appropriate option.

I. Sudip obtained the lowest marks in Chemistry among the five students.
II. Himanshu's total score in all the three subjects combined was more than that of Sudip.

(a) If Statement I is true, then Statement II is definitely true.
(b) If Statement II is true, then Statement I is definitely true.
(c) If Statement I is false, then Statement II is definitely false.
(d) None of the above options is correct.

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37. Given below are two statements based on the data provided in the question. Choose the most appropriate option.

I. Himanshu obtained the highest marks in Mathematics among the five students.
II. Rohan's total score in all the three subjects combined was the highest.

(a) If Statement I is true, then Statement II is definitely true.
(b) If Statement II is true, then Statement I is definitely false.
(c) If Statement I is false, then Statement II is definitely true.
(d) More than one of the above options are correct.

38. Six people P, Q, R, S, T and V are standing in a row facing North. Further information is given below:
   1. There are exactly 3 people between Q and S. One of them is T.
   2. V and T are on the same side of S and there are exactly 2 people between them.
   3. P is to the left of V but to the right of R.
   How many people are there between R and V?
   (a) 1   (b) 3   (c) 4   (d) 5

39. The question given below is followed by two statements, A and B. Mark the answer using the following instructions:
   Mark (a) if the question can be answered by using either statement alone.
   Mark (b) if the question can be answered by using one of the statements alone, but cannot be answered by using the other statement alone.
   Mark (c) if the question cannot be answered even by using both the statements together.
   Mark (d) if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.

   Q. Out of 300 members of a sports club, where facilities of only three games are in place, 140 members play Cricket, 130 members play Hockey and 150 members play Football. Each member plays atleast one out of the three games mentioned. How many members play only Hockey?

   A. All the members who play both Hockey and Football play Cricket also.
   B. For every five members who play atleast two games, there are three members who play all the three games.

40. Five people A, B, C, D and E stay in five different rooms of GMVN Hotel. Their rooms lie in a row and are numbered serially from '101' to '105'. The number of C's room is smaller than that of E's room which in turn is smaller than that of A's room. Moreover, the difference between the room numbers of E and C is the same as the difference between the room numbers of A and E. D is in room number 104 and his room is not next to E's room. What is E's room number?
   (a) 102   (b) 101   (c) 105   (d) Data Insufficient

41. Kamla fasted on 1st, 3rd, 6th, 10th, 15th...... day of the year 2010 and she continued fasting in this pattern thereafter. Bimla fasted on 1st, 4th, 8th, 13th, 19th..... day of the year 2010 and maintained the pattern thereafter. When would they fast together again?
(a) 23rd December, 2010
(b) 13th September, 2010
(c) 21st December, 2010
(d) Never

42. In the X-Y plane two distinct lines are drawn parallel to the line $3y - 4x = 15$, each at a distance of 3 units from the given straight line. What are the lengths of the line segments of these two lines lying inside the circle $x^2 + y^2 = 25$?
(a) 6 and 8
(b) 0 and 8
(c) 0 and 10
(d) 8 and 10

43. How many numbers are there between 0 and 1000 which on division by 2, 4, 6, 8 leave remainders 1, 3, 5, 7 respectively?
(a) 21
(b) 40
(c) 41
(d) 39

44. If 'a' is one of the roots of $x^5 - 1 = 0$ and $a \neq 1$, then what is the value of $a^{15} + a^{16} + a^{17} + \ldots\ldots a^{50}$?
(a) 1
(b) 5a
(c) 35
(d) None of these

45. If 'n' is a natural number then the greatest integer less than or equal to $\left(5 + \sqrt{19}\right)^n$ is

(a) even.
(b) odd.
(c) even when 'n' is even and odd when 'n' is odd.
(d) even when 'n' is odd and odd when 'n' is even.

46. A welder can finish job A and job C in 10 days and 20 days respectively. A blacksmith can finish job B and job C in 15 days and 10 days respectively. On the first day, two welders begin work on job A and a day later three blacksmiths begin work on job B. What is the least time required to complete all the three jobs?

(a) $\dfrac{33}{4}$ days
(b) $\dfrac{37}{4}$ days
(c) $\dfrac{31}{4}$ days
(d) None of these

47. In the given figure ABCD is a quadrilateral with BC = 4 cm and AD = 2 cm.

What is the length of AB (in cm)?

(a) $4 - \dfrac{1}{\sqrt{3}}$
(b) $\dfrac{4\sqrt{3} - 2}{\sqrt{3}}$
(c) $\dfrac{2\sqrt{3} + 1}{2}$
(d) $\dfrac{2\sqrt{3} - 1}{2}$

48. Vijay, Saral and Himanshu visited a shop to buy a certain article and each one of them bought atleast one unit of the article. The shopkeeper gave a discount of 20% to Vijay, two successive discounts of 20% and 25% to Saral and three successive discounts of 20%, 25% and 40% to Himanshu. After selling 'x' units of the article he calculated that he had given an overall discount of 50%. If $8 \leq x \leq 20$, then how many values of 'x' are possible?
(a) 5   (b) 7   (c) 0   (d) None of these

49. ABCD is a parallelogram. E is a point on AB such that AE : BE = 2 : 3. A line EF is drawn parallel to AD and it meets CD at F. G is a point on BC such that GB : GC = 1 : 4. What is the ratio of the area of $\triangle DEC$ to the area of $\triangle EFG$?
(a) 3 : 5   (b) 10 : 3   (c) 25 : 12   (d) None of these

50. In how many ways can 4 distinct balls be distributed into 3 identical boxes?
(a) 14   (b) 17   (c) 11   (d) 6

51. 'X' is the largest sum of rupees which can never be paid using any number of coins of denominations Rs.4, Rs.8, Rs.13 and Rs.18. What is the sum of the digits of 'X'?
(a) 9   (b) 10   (c) 11   (d) None of these

52. When '2' is added to each of the three roots of $x^3 - Ax^2 + Bx - C = 0$, we get the roots of $x^3 + Px^2 + Qx - 18 = 0$. A, B, C, P and Q are all non-zero real numbers. What is the value of $(4A + 2B + C)$?
(a) 10   (b) – 10   (c) 11   (d) Cannot be determined

53. On 1st January, 2000 the average age of a family of 6 people was 'A' years. After 5 years a child was born in the family and one year after that the average age was again found to be 'A' years. What is the value of 'A'? (Assume that there are no other deaths and births.)
(a) 25   (b) 35   (c) 37   (d) 39

54. Two different solutions of honey, milk and water are mixed with each other three times in varying proportions. The concentration of honey and milk in the three resulting solutions are found to be (10%, 16%), (12%, 12%) and (16%, x%) respectively. What is the value of x?
(a) 4   (b) 7   (c) 8   (d) 10

55. [x] = Greatest integer less than or equal to x
{x} = x − [x]
How many real values of x satisfy the equation 5[x] + 3{x} = 6 + x?
(a) 0   (b) 1   (c) 2   (d) More than 2

56. Fifty white marbles are placed in a row. What is the minimum number of black marbles that need to be placed between the white marbles such that each marble (white or black) has at least one neighbour of the other colour?
(a) 24   (b) 49   (c) 25   (d) 48

57. If $\log_5 \log_4 \log_3 (x^2 - 11x + 1) = 0$ (where x > 0) then what is the value of x?
(a) 16   (b) 13   (c) 20   (d) 8

58. In how many ways can 2700 be written as a product of 8 distinct integers?
   (a) 6 (b) 0 (c) 4 (d) More than 6

59. Page and Plant are running on a track AB of length 10 metres. They start running simultaneously from the ends A and B respectively. The moment they reach either of the ends, they turn around and continue running. Page and Plant run with constant speeds of 2m/s and 5m/s respectively. How far from A (in metres) are they, when they meet for the 23rd time?

   (a) 0 (b) 10 (c) $\dfrac{40}{7}$ (d) $\dfrac{60}{7}$

60. The midpoints of the four sides of a regular hexagon are joined to form a rectangle. What is the ratio of the area of the rectangle to that of the hexagon?

   (a) 1:2 (b) 1:3 (c) $1:\sqrt{3}$ (d) $1:\sqrt{2}$

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