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T.B.C.: KMIAS-C- TP/ MOCK TEST-1

Test Booklet Series

TEST BOOKLET
GENERAL STUDIES
PAPER - II

A

Time Allowed: Two Hours

Maximum Marks: 200

I N S T R U C T I O N S

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET DOES NOT HAVE ANY UNPRINTED OR TURN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission discrepancy will render the Answer Sheet liable for rejection.**
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. **Do NOT** write *anything else* on the Test Booklet.
4. This Test Booklet contains **80** items (Questions). Each item is printed in **English**. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response with you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See direction in the answers sheet.
6. **All** items carry equal marks.
7. Before you proceed to mark in the Answer sheet the response to various items in the Test booklet, you have to fill in some particulars in the answer sheets as per instruction sent to you with your Admission Certificate.
8. After you have completed filling in all responses on the answer sheet and the examination has concluded, you should hand over to Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
9. Sheet for rough work is appended in the Test Booklet at the end.
10. **Penalty for wrong answers:**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPER.
(i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
(ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
(iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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Directions for the following 4 (Four) items: Read the following Two passages and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage – 1

The glade was pear-shaped, roughly a hundred yards long and 50 yards wide, with a stagnant pool of rain-water in the centre of it. Deer and other animals used this as a drinking-place. Curious to see the tracks round it, I left the path, which skirted the left-hand side of the glade and passed close under a cliff of rock which extended up to the road. As I approached the pool I saw the pug-marks of the tigress in the soft earth at the edge of the water. She had approached the pool from the same direction as I had, and evidently disturbed by me, had crossed the water and gone into the dense tree and scrub jungle on the right hand side of the glade. A great chance lost, for had I kept as careful a look-out in front as I had behind I should have seen her before she saw me. However, though I had missed a chance, the advantages were now all on my side and distinctly in my favour.

The tigress had seen me, or she would not have crossed the pool and hurried for shelter, as her tracks showed she had done. Having seen me, she had also seen that I was alone and watching me from cover as she undoubtedly was, she would assume I was going to the pool to drink as she had done. My movements up to this had been quite natural and if I continue to make her think I was unaware of her presence, she would possibly give me a second chance. Stooping down and keeping a very sharp look-out from under my hat, I coughed several times, splashed the water about and then, moving

very slowly and gathering dry sticks on the way. I went to the foot of the steep rock. Here I built a small fire, and lit a cigarette. By the time the cigarette had been smoked the fire had burnt out. I then lay down and pillowing my head on my left arm placed the rifle on the ground with my finger on the trigger.

1. The author did not see the tigress before she saw him because

- (a) He did not keep a careful look-out behind
- (b) He was not aware of her presence near the pool
- (c) He did not keep a careful look-out in front
- (d) He crossed the pool and disappeared in to the jungle

2. The author coughed and splashed the water in order to

- (a) make the tigress believe that he was unaware of her presence
- (b) keep a sharp look-out
- (c) Make the tigress think that the author was aware of her presence
- (d) Make the tigress to move away from her hiding place

Passage – 2

The State claims authority over individual, but when the State is viewed as an instrument of society, it is essential that authority of the State is made to depend on the function it performs. In other words, when the state is regarded as means and the individual as the end, the State cannot be armed with absolute authority over individual. If the State claims authority, the individual must claim rights. It is foolhardy to claim that individual cannot have rights

against the State. It is important to note that the benefits that automatically flow from the existence of the State do not constitute rights. Rights comes into picture only when authority of State is sought to be limited.

3. Which of the following is true in light of the above passage?

1. Rights are not correlative to duties of individual
2. There is no rights, when authority of State is unlimited
3. Concept of rights provides a tool to analyse relation between individual and the State

Select correct answer using the code below:

- (a) 1 & 2 only
- (b) 1 & 3 only
- (c) 2 only
- (d) 2 & 3 only

4. On the basis of above passage following assumptions have been made:

1. Absence of rights makes the happiness of individual depend on the will of the powers-that-be
2. Rights belong to the sphere of conflicting claims between individual and the State

Which of these assumptions is/are valid?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

5. What is the sum of all two-digit numbers formed by using digits 1, 2, 3, 4 and 5(with repetition)?

- (a) 820
- (b) 725
- (c) 825
- (d) 660

6. There is a company named as "TRADES" which have 800 employees, is planning to hire 100 additional employees at the beginning of the next fiscal year. Currently, only 10% of the company's employees have a college degree. How percentage of the additional employees to be hired should have a college degree in order to double the number of employees having college degrees?

- (a) 60%
- (b) 70%
- (c) 100%
- (d) 80%

7. A bicycle wheel of radius 35 cm makes n revolutions in moving 11 km. What is the value of n? (Take $\pi = 22/7$)

- (a) 50
- (b) 100
- (c) 500
- (d) 5000

8. In a three-digit number, the digit at the hundred's place is two times the digit at the unit's place and the sum of the digits is 18. If the digits are reversed, the number is reduced by 396. The difference of hundreds and tens digit of the number is

- (a) 5
- (b) 2
- (c) 1
- (d) 4

9. A school is organizing a sports day, and there are 720 students participating. The event organizer wants to split the students into equal groups, with each group having at least 2 students and having a whole number of participants. What are the possible group sizes?

- (a) 30
- (b) 24
- (c) 29
- (d) 10

10. Out of a total of 120 musicians in a club, 5% can play all the three instruments, guitar, violin and flute. It so happens that the number of musicians who can play any two and only two of the above instruments is 30. The number of musicians who can play the guitar alone is 40. What is the total number of those who can play violin alone or flute alone?

- (a) 42
- (b) 43
- (c) 44
- (d) 45

Directions for the following 3 (Three) items: Read the following Three passages and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage – 1

August 27, 2011 will be written in the history of India. Finally, the Indian Parliament has passed a resolution including the major points laid down by the team of Anna Hazare. The deadlock or the crisis is over for the time being. It includes the covering of lower-level bureaucracy by the Lokpal, formation of Lokayuktas at the State level and the introduction of a Citizens' charter. Many have proclaimed this day to be a milestone for Indian democracy. It has refuted the allegation that public awareness and political education is at a lower level in India. The journey has not been easy. This is one of the rarest occasions when the common man has been watching the proceedings of our legislature so eagerly, with strong hopes and deep faith.

11. Which of the following does the author consider one of the rarest occasions?

- (a) The introduction of a Citizens' charter
- (b) Resolving the crisis in a peaceful way
- (c) Formation of Lokayuktas at the State level
- (d) Citizen's interest and strong belief in the legislature

Passage – 2

In India, the current focus on the right to privacy is based on some new realities of the digital age. A right is a substantive right only if it works in all situations, and for everyone. A right to free expression for an individual about her exploitation, for instance, is meaningless without actual availability of security that guarantees that private force cannot be used to thwart this right. The role of the State, therefore, is not just to abstain from preventing rightful free expression, but also to actively ensure that private parties are not able to block it.

12. On the basis of the above passage, the following assumptions have been made:

1. State should have some institutions to ensure its appropriate role in a digital society.
2. State should ensure that private parties do not violate the citizens' right to privacy.
3. Digital economy is not compatible with the idea of not violating the citizens' privacy.

Which of the above assumptions is/are valid?

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

Passage – 3

One of the biggest ironies around water is that it comes from rivers and other wetlands. Yet it is seen as divorced from them. While water is used as a resource, public policy does not always grasp that it is a part of the natural ecosystem. Efforts at engineering water systems are thus efforts at augmenting water supply rather than strengthening the capacities of ecological systems.

13. Which one of the following is the most logical and rational inference that can be made from the above passage?

- (a) Rivers and other wetlands should be protected under Ramsar Convention
- (b) Engineering water systems should be modernised and further augmented
- (c) Wetlands need to be reinforced as your more than just open sources of water
- (d) Water supply should not be free of cost so as to prevent its misuse or overuse

14. A software application is designed to generate large factorial numbers for testing purposes. The application produces numbers in the form of $n! \times m!$ where n and m are positive integers. The developers are interested in knowing how many trailing zeros are present in the product $25! \times 35!$. Calculate the number of trailing zeros in the product of integers?

- (a) 48
- (b) 35
- (c) 14
- (d) 25

15.Directions: Read the following information carefully and answer the questions given beside.

1. $A@B$ means A is not greater than B.
2. $A!B$ means A is greater than B.
3. $A*B$ means A is not less than B.
4. $A\%B$ means A is less than B.
5. $A\#B$ means A is neither greater nor less than B

Statements : $M!H$, $K\%M$, $G\#H$

Conclusion-1: $H\#K$

Conclusion-2: $M * G$

Which one of the following is incorrect in respect of the above Statement and the Conclusions?

- (a) Only Conclusion-1 follows from the Statement.
- (b) Only Conclusion-2 follows from the Statement.
- (c) Both Conclusion-1 and Conclusion-2 follow from the Statement.
- (d) Neither Conclusion-1 nor Conclusion-2 follows from the Statement.

16.N is a series in A.P and if the common difference is 1, then consider the following statements followed by a question:

Statement I: The 5 times of the 5th term of N is equal to 9 times the 9th term of N

Statement II: The 9 times of the 9th term of N is equal to 15 times the 15th term of N

Question: What is 14 times of the 14th term of the series N?

Which one of the following is correct in respect of the above Statements and the Question?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together.

17. What is the remainder when $41 \times 67 \times 73 \times 82 \times 91 \times 95$ is divided by 100

- (a) 10
- (b) 12
- (c) 90
- (d) 70

18. On a triangle ABC, on the side AB, 5 points are marked, 6 points are marked on the side BC and 3 points are marked on the side AC (none of the points being the vertex of the triangle). How many triangles can be made by using these points?

- (a) 90
- (b) 333
- (c) 328
- (d) None of these

19.If ‘-’ stands for division, ‘+’ for multiplication, ‘÷’ for subtraction and ‘×’ for addition. Which one of the following equations is correct?

- (a) $6 + 20 - 25 \div 9 \times 1 = 62$
- (b) $24 - 20 \div 12 \times 8 + 1 = 57$
- (c) $6 \div 20 \times 12 + 7 - 1 = 70$
- (d) $6 + 20 - 5 \div 7 - 1 = 38$

20.A bottle contains spirit and water in the ratio 1:4 and another identical bottle contains spirit and water in the ratio 4: 1. In what ratio should the mixtures in the two bottles be mixed to get a new mixture in which the ratio of spirit to water is 1:3?

- (a) 5:1
- (b) 6:1
- (c) 10:1
- (d) 11:1

21.Find the sum of the number of sides and number of diagonals of a hexagon.

- (a) 210
- (b) 15
- (c) 6
- (d) 9

Directions for the following 3 (Three) items: Read the following Three passages and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage – 1

Those NGOs that actually carry out developmental work in the field are stuck within programs specified by planners in developmental agencies and donor institutions. New ideas that deviate from those already specified by planners seldom

qualify for any funding. Thus, project proposals are prepared to reflect the requirements set by these planners in terms of methodology and outcomes. There is little initiative from the ground up, and no real feedback. Demonstrating compliance on paper ends up more important than actually getting the job done effectively.

22.Which of the following is the most logical, significant and rational inference that can be made from the above passage?

- (a) Recipients of development funds spend significant time preparing reports for the planners to qualify for continued funding, and less time worrying about what benefits the poor
- (b) Recipients of development funds carry out development works giving it lowest levels of priority since they are under obligation to prove high standards of financial propriety
- (c) Recipients of development funds focus on research regarding development economics for the poor intensely, despite being aware of their ideas getting rejected often by financiers Recipients of the development funds have to build-up methodological excellence and effective outcome delivery to get encouragement for new ideas from financiers
- (d) Recipients of the development funds have to build-up methodological excellence and effective outcome delivery to get encouragement for new ideas from financiers

Passage – 2

Many ecosystem services are ‘public goods’ or ‘common goods’: they are often open access in character and non-rival in their consumption. In addition, their benefits are felt differently by people in different places and over different timescales. However, private and public decisions affecting biodiversity rarely consider benefits beyond the immediate geographical area. They can also overlook local public benefits in favour of private benefits, even when local livelihoods are at stake, or focus on short-term gains to the detriment of the sustained supply of benefits over time.

23. Which one of the following statements best reflects the crux of the passage?

- (a) we must prevent private sector participation in decisions involving biodiversity.
- (b) we should not rely on ecosystem services which are limited and unsustainable.
- (c) we should learn from nature and stop its consumption for our developmental needs.
- (d) we should approach biodiversity in an inclusive, global and sustainable manner.

Passage – 3

Geothermal energy is the energy produced by the internal heat of the earth, which is concentrated in areas where there are volcanoes or geysers, known as geothermal reservoirs, which can produce clean energy indefinitely. The heat or thermal energy is transferred to the surface, and the force generated by the steam is used to power a turbine that moves an electric generator, in a plant within or near a producing field. Given the environmental vulnerability of Central America and the impacts that climate change is already causing, with

phenomena such as increasingly long droughts, it is vital for the region to depend less on hydropower generation and to make greater efforts to develop geothermal energy.

24. With reference to the above passage, the following assumptions have been made:

- 1. Central America has a good geothermal energy potential.
- 2. Climate change can potentially make hydro power generation unreliable.

Which of these assumptions is/are valid?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

25. Consider the following including the Question and the Statements:

There are 5 members P, B, R, D, T in a family.

Question: What is the relation of T to B?

Statement-1: P and B are a married couple.

Statement-2: D is the father of R.

Statement-3: T is D's son.

Statement-4: P and R are sisters.

Which one of the following is correct in respect of the above Questions and Statements?

- (a) Statement-1, Statement-2 and Statement-3 are sufficient to answer the Question.
- (b) Statement-1, Statement-3 and Statement-4 are sufficient to answer the Question.
- (c) All four statements together are sufficient to answer the Question.
- (d) All four statements are not sufficient to answer the Question.

Read the following information and answer the four (4) items that follow:

Let the distribution of number of scooters of companies *X* and *Y* sold by 5 showrooms (*A, B, C, D* and *E*) in a certain year be denoted by *S1* and the distribution of number of scooters of only company *X* sold by the five showrooms in the same year be denoted by *S2*.

Showroom	A	B	C	D	E	Total number of scooters sold
<i>S1</i> (in %)	1 9	2 1	1 5	3 3	1 2	6400
<i>S2</i> (in %)	2 4	1 8	2 0	3 0	8	3000

26. Number of scooters of company *Y* sold by showroom *E* is what percent of the number of scooters of both companies sold by showroom *C*?

- (a) 52
- (b) 54
- (c) 55
- (d) 56

27. Number of scooters of both the companies sold by showroom *B* is what percent more than the number of scooters of company *X* sold by showroom *A*?

- (a) $78 \frac{2}{3}$
- (b) $83 \frac{1}{3}$
- (c) $86 \frac{2}{3}$
- (d) $88 \frac{1}{3}$

28. What is the average number of scooters of company *Y* sold by the showrooms *A, C* and *E*?

- (a) $461 \frac{1}{3}$
- (b) $431 \frac{1}{3}$
- (c) $426 \frac{1}{3}$
- (d) $416 \frac{1}{3}$

29. What is the difference between the number of scooters of both companies sold by showroom *A* and total number of scooters of company *X* sold by showrooms *B* and *E* together?

- (a) 416
- (b) 426
- (c) 432
- (d) 436

30. 'A' and 'B' have pocket money in the ratio of 3:4. After the day's work, 'A' earned Rs.600 while 'B' earned Rs.500. However, 'A' spent Rs.150 and 'B' spent Rs.100 during the day. If they have equal amount of money at the end of the day, then the pocket money 'A' had in the morning is:

- (a) Rs.150
- (b) Rs.200
- (c) Rs.250
- (d) Rs.100

31. Consider the following statements:

- I. 61 divides $107^{100} - 76^{100}$
- II. 100 divides $67^5 + 33^5$

Which of the statements given above is/are correct?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

Directions for the following 5 (FIVE) items: Read the following Two passages and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage – 1

Disappearance of soil cover has had a dramatic impact on the landscape and ecology of the earth, but a key consequence of that transformation has largely been overlooked: a massive loss of soil carbon into the atmosphere. The importance of soil carbon — how it is leached from the earth and how that process can be reversed — is the subject of intensifying scientific investigation, with important implications for the effort to slow the rapid rise of carbon dioxide in the atmosphere. The world's cultivated soils have lost between 50 and 70 percent of their original carbon stock, much of which has oxidized upon exposure to air to become CO₂. Now, armed with rapidly expanding knowledge about carbon sequestration in soils, researchers are studying how land restoration programs might help put carbon back into the soil.

Absent carbon and critical microbes, soil becomes mere dirt, a process of deterioration that's been rampant around the globe. Many scientists say that regenerative agricultural practices can turn back the carbon clock, reducing atmospheric CO₂ while also boosting soil productivity and increasing resilience to floods and drought. Such regenerative techniques include planting fields year-round in crops or other cover, and agroforestry that combines crops, trees, and animal husbandry. Recognition of the vital role played by soil carbon could mark an important if subtle shift in the discussion about global warming, which has been

heavily focused on curbing emissions of fossil fuels. But a look at soil brings a sharper focus on potential carbon sinks. Reducing emissions is crucial, but soil-carbon sequestration needs to be part of the picture as well. The top priorities, are restoring degraded and eroded lands, as well as avoiding deforestation and the farming of peatlands, which are a major reservoir of carbon and are easily decomposed upon drainage and cultivation.

32. Which of the following statements is correct in light of the above passage?

- (a) Soil carbon saving will mitigate the global warming levels
- (b) Soil carbon loss will increase the temperature of globe
- (c) Soil carbon saving will neither mitigate global warming nor rise the same
- (d) Both A and B are correct

33. Why soil carbon conservation is crucial in view of the author?

1. The amount of carbon emission prevented by saving soil carbon is more than the carbon emission prevented by reducing fossil fuel usage at gross level
2. While the carbon levels in soil is lesser than atmospheric quantity, per unit of soil can host more carbon than equivalent unit of atmosphere

Select correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

34. On the basis of above passage, following assumptions have been made:

1. Poor promotion of Agri-forestry led to loss of soil carbon
2. Soil carbon conservation has potential to make agriculture a healthy enterprise

Which of the above assumptions is/valid?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

35. Which of the following can be the most logical, scientific and crucial corollary that can be made from the above passage?

- (a) Productivity of soil is largely dependent on its microbial composition
- (b) Cropping intensity needs to be improved to conserve more soil carbon
- (c) Cattle and poultry farming can help us save more soil carbon
- (d) Soil carbon conservation has its pros and cons

Passage – 2

A worrisome fact about 21st century Civil Society organisations of India is that, these campaigns have been successful only when the Supreme Court has intervened on the issue. The problem is that whereas the Court has adopted a pro-active stance on social rights, it has dismissed the demands of movements that demand a radical restructuring of power relations in the country. For instance, in the 1980s the Narmada Bachao Andolan foregrounded the plight of the thousands of people who

had been displaced by the building of the gigantic Sardar Sarovar Project on the river Narmada in Western India. The movement had approached the Supreme Court, and requested stoppage on work on the dam. However, in October 2000, the Court by a majority of one permitted the raising of the height of the dam to 90 metres. The ruling not only resulted in the displacement of thousands of more families, it mounted a serious setback to critiques of big development projects as environmentally unsound and as socially hazardous.

36. Which of the following is the most crucial and rational inference that can be made from the above passage?

- (a) Non-party power politics in India is successful due to support of judiciary and social movements
- (b) Judiciary has complemented government in sidelining critics of development projects
- (c) Too much reliance on judicial interventions can tame the agenda of civil society
- (d) Civil society has remained a non-starter owing no efforts in demanding power distribution towards weaker sections

37. In an artificial language, some words are translated as given below (not in order):

- ‘lu ja ka hu’ means ‘we people study material’,
- ‘fa ka la ju’ means ‘we score maximum selection’,
- ‘La fu ja ju’ means ‘study score the selection’ and
- ‘Ju lu na fu’ means ‘selection of the material’.

What is the code of 'people' in this code language?

- (a) hu
- (b) lu
- (c) ka
- (d) Ja

38. If a and b are positive integers such that $(4a + 3b)$ is a multiple of 11, then which of the following will also be divisible by 11?

- (a) $9(a + b)$
- (b) $7ab$
- (c) $4(a + 3b)$
- (d) $7a + 8b$

39. The difference between the compound interest and simple interest on a certain investment at 10% per year for 2 years is Rs. 100. Find the value of the investment.

- (a) Rs. 8000
- (b) Rs. 9000
- (c) Rs. 10000
- (d) Rs. 12000

40. Consider the following statements in respect of two integers p and q (both > 1) which are relatively prime:

1. Both p and q may be prime numbers.
2. Both p and q may be composite numbers.
3. One of p and q may be prime and the other composite.

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

41. There are seven pairs of black shoes and five pairs of white shoes. They all are put into a box and shoes are drawn one at a time., what is the minimum number of shoes required to be drawn out to get at least 1 pair of correct shoes (either white or black)?

- (a) 12
- (b) 7
- (c) 13
- (d) 18

Directions for the following 4 (Four) items: Read the following Two passages and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage – 1

While most people agree that the Golden Age of comic books began with the introduction of Superman in 1938 in Action Comics #1, there is less agreement about when exactly the Golden Age ended. There is general consensus, however, about the factors that brought the Golden Age to a close: the rise of the horror comic book in the late 1940s and the resulting backlash against comic books in the early 1950s. Superhero comic books reached their peak of popularity in the early 1940s amongst public who eagerly read about Superman, Batman and The Spirit. Gradually, the people sought more adult content though they still wanted to read comic books. William Gaines of EC Comics was happy to meet the market demand with such grim and gritty titles as "Weird Fantasy" and "The Crypt of Terror". The creators of superhero comic books, not wanting to be left behind, responded by matching their protagonists against darker criminals in more violent encounters.

These darker comic books aroused the anger of child psychologist Fredric Wertham, who believed that comic books were leading the nation's youth into crime, violence and drug abuse. Wertham's book, "The Seduction of the Innocent", was a national best-seller that helped bring about congressional investigations into the corrupting influence of comic books. The Senate Committee that reviewed the Wertham's charges decided to create the Comics Code Authority, a regulatory body that prohibited books from mentioning sexuality, alcohol, drugs, criminal behaviour or any themes related to horror genre. These had a numbing effect on the industry. EC Comics was nearly driven out of comics business and the other major players cancelled many of their prominent titles. The comics business did not recover until the Marvel revolution of the early 1960s ushered in the Silver Age.

42. Which of the following can be inferred to be the central message of Fredric Wertham's "The Seduction of the Innocent"?

- (a) Adults reading violent comic books were as likely to be corrupted by them as young people were.
- (b) Comic books were leading the nation's youth into crime, violence and drug abuse.
- (c) Creating a regulatory board to censor the comic book industry would drive the worst offenders out of the business
- (d) Comic books would never be able to convey stories of any serious literary merit

43. Which of the following statements can be made about the content of "Weird Tales" and "The Crypt of Terror"?

- (a) Their adult-oriented content was not suitable for young readers
- (b) Their grim and gritty content was a marked response to the demands of the reading public
- (c) They frequently depicted violence and criminal behaviour, but shied away from sexuality and drug abuse.
- (d) Their sales surpassed those of previous best-selling titles such as Superman or Batman

44. According to the passage, what may be inferred about the comic book companies of the Silver Age?

- (a) They achieved commercial success because of the popularity of characters such as Spiderman, the Hulk and the Fantastic Four
- (b) They failed to succeed because of the numbing effect of the Comics Code Authority regulations
- (c) Marvel Comics was the only major comic book company to survive from the Golden Age into the Silver Age
- (d) They were able to create popular comic books despite the regulations of the Comics Code Authority

Passage – 2

For a believer in science, blossoming of flower is not a miracle since science tells him how that happens. But at the most fundamental level, it's a miracle that there's a universe at all. It's a miracle that it has order, fine-tuning that allows the possibility of complexity, and laws that follow precise mathematical formulas. Contemplating this, an open-minded observer is almost forced to

conclude that there must be a “mind” behind all this, to me that qualifies as a miracle.

45. The passage seems to imply that,

- (a) Science and faith can actually be mutually enriching and complementary
- (b) There is a profound truth that lies outside of scientific explanation
- (c) Humans should dissociate from science beyond a point
- (d) Religion can give answer to questions unanswered by science

46. Directions: In each of the following questions, a question is followed by two statements numbered I and II. You have to decide whether the information provided in the statements is sufficient to answer the question.

Question: In a certain code language, directions are renamed. What is the new name for "North"?

Statements:

- I. South-east is called East, and North-west is called West.
- II. South-west is called South, and North-east is called North.

Which one of the following is correct in respect of the above Question and the Statements?

- (a) If statement I alone is sufficient to answer the question, but statement II alone is not sufficient.
- (b) If statement II alone is sufficient to answer the question, but statement I alone is not sufficient.
- (c) If both statements I and II together are sufficient to answer the question, but neither alone is sufficient.
- (d) If each statement alone is sufficient to answer the question.

47. If in a certain code 'MOTHER' is written as 'NNUGFQ', then how would 'FAMILY' be written?

- (a) GZMHNX
- (b) GZNHMY
- (c) GZHNMX
- (d) GZNHMX

48. When the square of the sum of two numbers are added to the square of their difference, we get 416. The difference between the square of the sum and square of the difference is 384. What are the numbers?

- (a) 18 and 24
- (b) 12 and 16
- (c) 8 and 12
- (d) 10 and 12

49. Rodney and Rowan set out to meet each other from two places 200 km apart. Rodney travels 20 km the first day, 19 km the second day, 18 km the third day and so on. Rowan travels 8 km the first day, 10 km the second day, 12 km the third day and so on. When will they meet?

- (a) 9th day
- (b) 8th day
- (c) 7th day
- (d) 6th day

50. Consider the following Statements and Conclusions:

Statements:

- I. No Pen is a shirt.
- II. Some trousers are Pens.
- III. All belts are shirts.

Conclusions:

- I. No Pen is a trouser.
- II. All Pens being trousers is a possibility.

Which of the above conclusions is/are drawn from the statements?

- (a) Only Conclusion-I
- (b) Only Conclusion-II
- (c) Either Conclusion-I or Conclusion-II
- (d) Both Conclusions-I and Conclusion-II

51. Find the 207th term from the Right end of the following series

Z, Z, Y, Y, Y, X, X, X, X, W, W, W, W, W, ..., A?

- (a) H
- (b) I
- (c) J
- (d) M

Directions for the following 4 (Four) items: Read the following Two passages and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage – 1

The Intergovernmental Panel on Climate Change's (IPCC) latest report indicates that the Caribbean states are expected to be heavily impacted by climate change. Most if not all states depend on the fisheries and the regional tourism industry - which grew from

four million visitors in 1970 to an estimated 25 million visitors today - earns an estimated 25 billion dollars in revenue and supports about six million jobs. The findings of the IPCC's report is further strengthened by that of the Caribbean Marine Climate Change Report Card (2017) which stated: "The seas, reefs and coasts on which all Caribbean people depend are under threat."

52. With reference to the above passage, the following assumptions have been made:

- 1. Fish can be as badly affected by climate change as any human being.
- 2. Climate change can have adversarial effects on tourism industry.

Which of these assumptions is/are valid?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Passage – 2

India's higher education in a web of qualifying and competitive exams, regulatory agencies and professional bodies. All this is in the name of upholding standards. There is the excessively bureaucratic national system of accreditation and rankings for institutions. This led to thousands of research papers in worthless journals and hundreds of crores spent on exotic research areas. The new National Education Policy (NEP) claims that the purpose of higher education is to "enable personal accomplishment and enlightenment, and productive contribution to society". But what is this in concrete terms, for students? Should a "good" student

be able to write a newspaper article on a local issue, or conduct a study? Should IITs analyse the social issues in their cities? Can the state rely on its colleges for research on serious developmental issues like water security? Should the nation expect that elite institutions will work to improve the social welfare? These questions have never been answered. Instead, national competitive exams such as the JEE, NEET and GATE have become the de facto standards for education. The problem is, they adversely impact the overall development of our youth. They encourage coaching and intervene in the state's ability to provide doctors and engineers from the local population. They distort the meaning and practice of science. This standardisation is merely "world-class" and not based on any study of what the states need. Pedagogically, it is known that students learn better when presented with real-life problems in a familiar context. And yet the case study on local problems has been absent in the curricula.

53. Which of the following is the most rational and crucial inference that can be made from the above passage?

- (a) The bureaucratised national system of regulating education eroded the autonomous growth of institutions
- (b) Often the education policy deviates from imparting right form of science
- (c) There have been few efforts to evolve standards and link them with concrete social goals
- (d) Proliferation of coaching institutions and suppression of youth's aspirations are twin defects of the present regulatory set-up

54. On the basis of above passage, following assumptions have been made:

- 1. Setting standards in higher education requires us to connect societal needs and professions with training and research
- 2. The present regulatory standards are not in line with standards that match global level of excellence

Which of these assumptions is/are valid?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

55. Which of the following is false in light of the above passage?

- (a) Disconnect of curricula and teachers with the real world is the real dilution of standards
- (b) The new NEP continues to live in the same exalted evidence-free world of national curricula and nationalised testing
- (c) Deglobalisation of education curricula is the need of the hour
- (d) Future of students is bogged down by a higher education system and a scientific bureaucracy which is structurally flawed

56. Last year the age of R was three times that of V. At present, the age of R is double that of V. How old is R?

- (a) 8 years
- (b) 6 years
- (c) 5 years
- (d) 4 years

57. $777^{555} + 555^{777}$ is divisible by

- (a) 2 and 3 Only
- (b) 2 and 37 Only
- (c) 3 and 37 Only
- (d) 2, 3 and 37

58. A certain number of men can complete a piece of work in 60 days. By what percent should the number of men be increased so that the work can be completed in 50 days?

- (a) 10%
- (b) $(50/3)\%$
- (c) 20%
- (d) 25%

59. The area of a rectangle is 500 Sq Units., The length and breadth of the rectangle are positive integers. How many such rectangle shapes are possible?

- (a) 12
- (b) 15
- (c) 6
- (d) 8

60. Between 3 and 4 O'clock, both hour hand and minute hand will coincide past 3 O'clock between

- (a) 15-16 minutes
- (b) 16-17 minutes
- (c) 17-18 minutes
- (d) 18-19 minutes

61. $15 \times 14 \times 13 \times \dots \times 3 \times 2 \times 1 = 12^m \times n$ Where m and n are positive integers, then what is the maximum value of m?

- (a) 7
- (b) 6
- (c) 5
- (d) 4

Directions for the following 2 (Two) items: Read the following Two passages and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage – 1

MSME Act, 2006, the classification of MSMEs is defined in terms of investment in plant and machinery for the manufacturing enterprises and equipment for the services enterprises. However, since 2006, there has been major transitions in the economy. Increasing domestic and global competition, technological obsolescence, change in manufacturing strategies, lack of access to infrastructure and logistic facilities, fund shortages and inadequate linkages to domestic and international markets together with uncertainty are key challenges for MSMEs. This demands a key policy change.

62. Which of the following is the most logical and crucial corollary that can be made from the above passage?

- (a) Industrial policy of government should be tweaked in interests of MSMEs
- (b) Technological deficit is the main reason for downfall of MSMEs
- (c) We should redefine the small enterprise in a way that will foster their global competitiveness
- (d) Cluster development of MSMEs with access to diverse facilities can strengthen Indian MSMEs

Passage – 2

Asset allocation is the most important investment decision we will ever make and sadly, most of us do not give that decision the importance it deserves. We are adamant about seeking predictability with our future. We tend to think of investing in risky assets as extremely volatile and value eroding. We also dislike fluctuating returns and the loss of control of investment.

We think our money is best left idle, unproductive but safe. There is no asset that is risk-free. We could lose our jobs, our homes can lose value, our banks can go bankrupt, our bonds can default, the government can collapse and companies we chose fondly may cease to exist. But we cannot live life assuming that all these extreme events are waiting to happen and all at the same time. All these extreme forms of risks we know will not manifest at the same time.

63. Which one of the following statements best implies the suggestion given by the author of the passage?

- (a) Distribute your wealth across different kinds of assets so that your risks would be minimised
- (b) Risk-taking behaviour should be a necessary component of your personality if you want to generate wealth
- (c) While making investments, find a trustworthy asset management organisation which would manage your wealth for you
- (d) You should know that investing your money is a risky business

64. Consider the Question and two Statements given below:

Question: Is the number Y greater than 40?

Statement I : Y is an even number, multiple of 11.

Statement II : Y is a multiple of 45.

Which one of the following is correct in respect of the Question and the Statements?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together.

65. What is the unit digit in the expansion of $(723)^{12 \times 34 \times 56}$

- (a) 3
- (b) 1
- (c) 9
- (d) 7

66. One morning Sujata started to walk towards the Sun. After covering some distance she turned to the right then again to the right and after covering some distance she again turned to the right. Now in which direction is she facing?

- (a) North
- (b) South
- (c) North-East
- (d) South-West

67. The average marks of 40 students in a class is 59 and after removing the highest mark, the average of the remaining 39 students is 58. What is the highest mark in the class?

- (a) 98
- (b) 99
- (c) 97
- (d) 100

68. A question is given followed by two statements I and II. Consider the Question and the Statements and mark the correct option.

Question: The largest of five different integers is 8 and least is 2. What is the average of these integers?

Statement-I: The sum of all the 5 integers is a multiple of 5

Statement-II: The number of odd integers is odd

Which one of the following is correct in respect of the above Question and the Statements?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together.

69. The cost price of 10 candles is the same as the selling price of 'n' candles. If a Profit of 25 % is incurred, what is the approximate value of 'n'?

- (a) 2.5
- (b) 8
- (c) 10
- (d) 20

70. Consider the following statement.

Statement: $A = x\%$ of y and $B = y\%$ of x

Conclusion-I: A is greater than B

Conclusion-II: B is greater than A

Which of the above conclusions is/are true?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

71. A traffic light changes every 90 seconds, cycling through yellow, green and red. If it is green at 12:00 PM, what color will it be at 12:10:31 PM?

- (a) Green
- (b) Yellow
- (c) Red
- (d) Cannot be determined

Directions for the following 2 (Two) items: Read the following Two passages and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage – 1

Paternity leave is not as utilised as maternity leave. Even where men have access to paid paternity leave, they might still cut their leaves short to avoid being perceived as less dedicated employees. One recent survey of highly educated professional fathers, found a substantial portion took less than the full amount of paid leave available. They cited work pressures as a factor in the length of leave they took. Other studies have found that fathers who reduce their work hours or leave work for family reasons may incur a “flexibility stigma.”

72. According to the author, which of the following are responsible for poor usage of paid paternity leave?

1. Male breadwinner norms
2. Work culture
3. Professionalism

Select correct answer the code given below:

- (a) 1, 2 & 3
- (b) 3 only
- (c) 2 & 3 only
- (d) 1 & 2 only

Passage – 2

The growth of the mobile payment industry is incredible and very much required for the country's progress. But, what do we need to do is to prioritise the security of sensitive data. We may need further regulatory impetus to address critical issues such as trust-deficit of users, security of transactions, privacy concerns, and streamline the grievance redressal mechanism. Payment solutions that leverage the UPI architecture offer a more secure gateway. This type of infrastructure complements the standards set by NPCI.

73. Which of the following is the central focus of the passage?

- (a) Perils of excess indulgent into technological advancements like cashless economy
- (b) Need to take confidence building measures between payment service providers and government
- (c) Companionship between innovation and security
- (d) None of the above

74. How many pairs of letters are there in the word 'CREATIVE' which have as many letters between them in the word as in the alphabet?

- (a) 1
- (b) 3
- (c) 2
- (d) 4

75. For any choices of values of Y and X, the 6-digit number of the form YYYXXX is divisible by:

- (a) 3 only
- (b) 3 and 37 Only
- (c) 2 and 37 Only
- (d) 3, 37 and 111

76. A Question is given followed by two statements I and II. Consider the Question and the statements.

Question: Is the product of two consecutive natural number is greater than 92

Statement I: Difference between the square of the larger number and the larger number is 90.

Statement II: The smaller of the two numbers when added to a square even integer and divided by 2 gives 6.5.

Which one of the following is correct in respect of the above Question and the Statements?

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together.

77. In a swimming competition, the players were asked to swim 9 km upstream and then swim back to the point of starting. The winner of the competition could complete the task in 1 hour and 30 minutes. If the speed of the current of the river water was 8 km/hr, the speed of the winner is:

- (a) 16 km/hr
- (b) 20 km/hr
- (c) 14 km/hr
- (d) 18 km/hr

78. In a row where all are facing north, Priya is 15th from the left end and Garima is 19th from the right end. They interchange their positions, and Ram who sits 24th from the left end sits at the 5th place to the left of Priya's new position. How many people were there in the row?

- (a) 36
- (b) 42
- (c) 47
- (d) 56

79. 380 mangoes are shared among 85 children, some of whom are boys and others girls. Each boy receives 4 mangoes, and each girl gets 5. How many boys are there?

- (a) 25
- (b) 35
- (c) 45
- (d) 40

80.If P, Q and R are three distinct integers, where P is even and positive, and Q and R are odd and positive, then consider the following statements:

Statement I: The value of $\{(Q - P)^2 \times R\}$ is definitely ODD.

Statement II: The value of $\{(Q^2 + P^2) - R^2\}$ is definitely odd.

Which among the following statements is/are correct?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

SPACE FOR ROUGH WORK

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