

## **UCEED QUESTION PAPER (2015)**

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#### Paper Specific Instructions

- 1. The examination is of 3 hours duration. There are a total of 100 questions carrying a total of 300 marks. The entire paper is divided into three sections, **A**, **B** and **C**. All sections are compulsory. Questions in each section are of different types.
- 2. Section A (60 marks) contains a total of 20 Numerical Answer Type (NAT) questions. For these NAT type questions, the answer is a real number that needs to be entered using the virtual keyboard on the monitor. No choices will be shown for these questions. There is NEGATIVE marking for this section. Each correct answer will be awarded 3 marks and each wrong answer will be awarded -1 marks. Questions not attempted will result in zero mark. Questions 1-20 belong to this section.
- 3. Section B (90 marks) contains a total of 30 Multiple Select Questions (MSQ). Each MSQ type question may have one or more than one correct choice(s) that are correct out of the four given choices. The candidate gets 3 marks only if ALL the correct answers, and no wrong answers are selected. There is NO NEGATIVE or PARTIAL marking for this section. Questions not attempted will be given zero marks. Questions 21-50 belong to this section.
- 4. Section C (150 marks) contains a total of 50 Multiple Choice Questions (MCQ). Each MCQ type question has four choices out of which only one is the correct answer. There is NEGATIVE marking for this section. Each correct answer will be awarded 3 marks and each wrong answer will be awarded -1 marks. Questions not attempted will be given zero marks. Questions 51-100 belong to this section.
- 5. Calculators, charts, graph sheets, tables, cellular phone or other electronic gadgets are **NOT** allowed in the examination hall.
- 6. A Scribble Pad will be provided for rough work.



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## **Section A: Numerical Answer Type Questions**

This section contains a total of 20 Numerical Answer Type (NAT) questions. For these NAT type questions, the answer is a real number that needs to be entered using the virtual keyboard on the monitor. No choices will be shown for these questions. There is NEGATIVE marking for this section. Each correct answer will be awarded 3 marks and each wrong answer will be awarded –1 marks. Questions not attempted will result in zero mark.

1. Count the number of circles in the given figure.



2. Shown here are different types of leaves. Count how many types of leaves there are.





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3. Count the number of squares in the given figure.



4. Shown here are letters of an alphabet, from A to Z. How many of these letters, if flipped along the horizontal axis, can still be read as capital letters?



5. Count the number of fonts used in the given set of words.

spectrum auctions display holdings industry maximum performance operators programme reduction benchmark natural fiscal cartelisation withdrawn utilized emerged contributed designer allegations total compensation mango farmers sugar.



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6. The five most recent cricket scores of four teams are as follows:

Team 1	Team 2	Team 3	Team 4
255	301	309	288
278	282	319	301
291	269	279	322
268	299	312	310
308	279	316	289

Based on this information, identify the team with the most consistent performance (least variance in scores), and write its average.

#### 7. Count the number of spelling mistakes in the given passage.

They may perhaps have nothing to retract from thier past lives; they could publish a signed account of everything they have ever said or done; but they are consceintious creatures, feeble descendants of doctrinaires, and their wisdom is negative and sterile. We do not recieve wisdom, we must discover it for ourselves, after a journey through the wilderness which no one else can make for us, which no one can spare us, for our wisdom is the point of view from which we come at last to regard the world. The lives that you admire, the atitudes that seem noble to you, have not been shaped by a paterfamilias or a schoolmaster, they have sprung from very different beginings, having bee influenced by everything evil or comonplace that prevailed round about them.

8. Shown below are three types of interlocking rods. There are total 12 rods, of which 6 are type A, 2 are type B and 4 are type C respectively. What is the maximum length that can be achieved by connecting the rods appropriately?





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9. The given figure is made of letters L, T, H, I, E and F, set in different orientations. Find the total number of occurrences of capital letter T in the figure.



10. Shown below, to the left, are three types of pencils: A, B and C. Find the total number of type A pencils in the figure on the right, which shows various pencils pointing in either of the two directions, up or down.





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11. Count the total number of parallelograms in the given figure.



12. Imagine letters are extruded into three dimensional objects, as shown in the figure on the left (the letter A). If the word LOVE (shown on the right) were to be extruded, how many surfaces would it have?



LOVE

13. Count the number of unique patterns in the given grid.





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14. In photography, f-numbers represent lens aperture. Write the missing f-number in the sequence below.

f/2.8, f/3.2, f/3.5, f/\_\_, f/4.5, f/5.0, f/5.6

15. Given below are eight pieces of a puzzle. Arranged correctly they form a four digit number. What is the number formed after the correct arrangement?



16. The following excerpt is from an article on Indonesian Shadow Puppet Theatre:

"Muslim Indonesia is a fascinating story of tolerance and absorption, a relaxed compromise between religions, unlike any of the other multi-faith societies. *Wayang Kulit*---'skin theatre'---is an ancient Indonesian art of shadow theatre. Historically, performances in the Theatre of Shadows featured Hindu epics and lasted throughout the night. Light from an oil lamp behind the puppeteer's head cast the shadows from the puppets onto a white sheet. Some members of the audience---usually the women and children---sit on the shadow side of the screen, while the men would sit on the favoured other side, where the features and colours of the puppets could be seen. The puppeteer, known as a *dalang*, would not only control the puppets, but also conduct the accompanying music, performed by a gamelan orchestra".

The following statements have been derived based on both explicit and implicit reading of the above passage:

- I. Indonesian society accorded pre-eminence to women and children.
- II. Modern Wayang Kulit probably uses electric lights to cast shadows.
- III. Wayang Kulit had Islamic origins.
- IV. Gamelan is a traditional ensemble music of Java and Bali in Indonesia.
- V. The puppets are made of fabric for easy manipulation by the *dalang*.

How many of the above statements are FALSE?



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17. Shown below is a belt and pulley arrangement. How many pulleys are rotating clockwise?



18. Two views of the same solid object are shown below. Count the number of surfaces the solid object has.



19. Count the number of cubes in the given figure. No cube has been removed from parts of the figure that are not visible.





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20. A, B, C, D, E and F are six robots. Each robot can contact some other robots, though none of the robots can contact all the robots. The rules of contacting are as follows:

B can contact E and can be contacted by C

D can be contacted by A, E and F

F can contact C

D can contact C and E

F can be contacted by A

A robot can receive a message from other robots that can contact it and can relay the message to another robot it is allowed to contact.

What is the minimum number of robots that are required between robot A and robot B, to send a message from robot A to robot B?



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## **Section B: Multiple Selection Questions**

This section contains a total of 30 Multiple Select Questions (MSQ). Each MSQ type question may have one or more than one correct choice(s) that are correct out of the four given choices. The candidate gets 3 marks only if ALL the correct answers are selected, and no wrong answers. There is NO NEGATIVE or PARTIAL marking for this section. Questions not attempted will be given zero marks.

21. Which of the following statements is/are TRUE?

- A. Jacques Lacan was a French psychoanalyst and psychiatrist.
- B. Claude Lévi-Strauss is called the father of structural anthropology.
- C. Michel Foucault was a French writer who wrote, "Being and Nothingness".
- D. Ferdinand de Saussure was a Swiss linguist and semiotician.

22. Which of the four figures shown on the right exactly fit the figure shown on the left?



- A. Land II
- B. II and III
- C. I and IV
- D. None of the above options
- 23. Which of the following statements is/are TRUE?
  - A. Ellora caves contain Hindu Shaivaite sculptures.
  - B. Elephanta caves contain only Hindu Vaishnavaite sculptures.
  - C. Ellora caves contain only Hindu Shaivaite sculptures.
  - D. Elephanta caves contain Hindu Shaivaite sculptures.

24. Which of the given figures can be drawn without either lifting the pen or retracing any line?





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- A. None of the figures
- B. Figures I, II and III
- C. Figure IV
- D. All of the figures
- 25. The triangular shape (at left) is broken into several parts. Choose the correct set of parts from the figures (on the right) to put the triangle together again.



26. The given heart shape (on top) is made of different parts put together. Which of the shapes in the options can be constructed using all the parts of the given heart shape?



- 27. Which of the following statements is/are TRUE?
  - A. Ustad Mansur was a painter during the reign of Jahangir, and he is well known for depicting plants and animals.
  - B. The painting of "Emperor Jahangir Weighs Prince Khurram" in the Tuzk-e-Jahangiri is attributed to Manohar Das.
  - C. Govardhan was a painter during the reigns of Akbar, Jahangir and Shah Jahan. He was one of the illustrators of the Baburnama.
  - D. Nainsukh was a court painter during the reign of Aurangzeb, and he is well known for painting several of Aurangzeb's portraits.
- 28. A square with four sets of symbols in it (shown below, at left) is to be divided into four equal parts such that each part has all four symbols in it. Which of the four shapes shown below (at right) fulfill(s) the condition?



P

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- 29. Which of the following statements is/are TRUE?
  - A. The Lion Capital of Ashoka found in Sarnath is carved out of granite rock.
  - B. The Ellora caves are carved in granite rock.
  - $\overset{\mbox{C.}}{\_}$  The descent of the Ganges in Mahabalipuram is carved out of granite rock.
  - D. The Ajanta caves are carved in basalt rock.
- 30. Which of the options is/are simple rotations of the given figure?





31. Which of these paintings is/are by Paul Klee?





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- 32. Which of the following terms relate(s) to printmaking?
  - A. Serigraphy
  - B. Lithography
  - C. Cartography
  - D. Etching
- 33. Which of the following statements is/are TRUE?
  - A. Kuntaka was a Kashmiri Sanskrit poetician and literary theorist who is known for his work Vakroktijivitam in which he postulates the Vakrokti Siddhanta.
  - B. Abhinavagupta was a Kashmiri aesthetician well known for his commentary on the Natya Shastra and for introducing the Shanta Rasa.
  - C. Mammata Bhatta was the author of Dhvanyaloka, and is credited with creating "Dhvani Theory".
  - D. Anandavardhana was a Sanskrit rhetorician from Kashmir, and is credited with writing the Kavya Prakasa a work on poetry and rhetoric.
- 34. Shown below are three objects in 3D --- one cube and two right-angled prisms. Assume that they can be merged into each other to form one 3D object. From the options given below, choose the possible object(s) that can be formed by this merging.





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35. Shown below are steps in creating a pattern. From the options given below, identify the element(s) that can be repeated in order to create this pattern.



36. Which of these paintings is/are by Anjali Ila Menon?



С

D

37. A person has six daughters, P, Q, R, S, T and U, who live in four metros. They are a Pilot, Accountant, Diplomat, Banker, Commando, and Teacher.

Three daughters are married.

S, who lives in Mumbai, is a Diplomat.

Those staying in Kolkata are the Commando and the Accountant.

One of the two Mumbaiites is married, while two of the unmarried ones live in Kolkata and Delhi respectively.

- The Teacher lives in Chennai.
- T, the Accountant, is married.
- U lives in Mumbai and P, in Delhi.
- Q is a Commando, and Commandos do not marry.

Which of the following assertions is/are TRUE?

- A. If the Banker is unmarried, then the pilot is P.
- B. R is the teacher, and lives in Chennai.

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- C. Q is unmarried.
- D. If the Diplomat is married, then so is the Banker.

38. Select the statement(s) about the Indus Valley Civilization that is/are TRUE?

- A. At its peak, the Indus Valley Civilization encompassed nearly 200,000 Square Miles.
- B. Stone seals from the Indus Valley Civilization have been found as far afield as Greece and Macedonia.
- C. The largest of the Indus Valley cities, such as Harappa and Mohen-jo-Daro, had populations of a 100,000 people and more.
- D. Despite the existence of highly ordered cities in the Indus Valley, there is no evidence of kings or pharaohs or any leader at all.
- 39. Read the following paragraph and answer the question related to it.

The Green Revolution has arguably been the most striking technological triumph of the 20th century in the realm of food production and land yields. Yet, there are serious concerns about its ill-effects on the environment. Which of the following concerns is/are TRUE?

- A. The disruption of the Nitrogen cycle by the massive use of chemical fertilizers is unsustainable for the environment.
- B. The Green Revolution has unequivocally been the most striking technological triumph of the 20th century in the realm of food production.
- C. Large monocultures of crops brought about by the Green Revolution are susceptible to sudden destruction by pests and disease.
- D. Increasing the supply of food through the Green Revolution would encourage the appearance of more and more new individuals, leading to worldwide famine as the human population becomes limitless.
- 40. Read the following paragraph and answer the question related to it.

There are many subtleties to designing with audio in order to create useful, non-intrusive experiences that offer instruction, information, and feedback when users interact with everyday devices, such as mobile phones, cars, toys etc. If audio might play a part in your design, what are some considerations, with specific regard to cognitive loads on users and aesthetics of interaction that you must keep in mind? Pick all that apply.

- A. Audio is linear, time-sensitive, and transient, therefore good design must limit the number of audio menu options.
- B. Users will often listen to all choices before picking one, and a long list limits their ability to remember them all. So it is necessary to keep choices pertinent and parsimonious.
- C. Using jargon in instruction enhances user experience, since it enables users to create shortcuts more easily, and to utilize the offered functionality of a device in wider and deeper ways.



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- D. It is good to differentiate between a novice user and an expert user by keeping track of the number of interactions that the user has with the device, and tailoring an audio experience for first-time users, while playing shortened prompts to expert users.
- 41. Read the following paragraph and answer the question related to it.

Anaximander, in the sixth century BCE, had a theory of evolution, and maintained that men are descended from fishes. This was philosophy because it was a speculation unsupported by detailed evidence, but Darwin's theory of evolution was science, because it was based on the succession of forms of life as found in fossils, and upon the distribution of animals and plants in many parts of the world. A man might say, with enough truth to justify a joke: 'Science is what we know and philosophy is what we don't know.' But it should be added that philosophical speculation as to what we do not yet know has shown itself a valuable preliminary to exact scientific knowledge. The guesses of the Pythagoreans in astronomy, of Anaximander and Empedocles in biological evolution, and of Democritus as to the atomic constitution of matter, provided the men of science in later times with hypotheses which, but for the philosophy consists, at least in part, in the framing of large general hypotheses which science is not yet in a position to test; but when it becomes possible to test the hypotheses they become, if verified, a part of science, and cease to count as 'philosophy'.

Which of the following statements is/are TRUE of the paragraph above?

- A. Even though Anaximander had a theory of evolution in the sixth century BCE that seems untenable to our modern minds, the author explains how philosophical speculation is rigorous enough to have spawned scientific hypotheses that have often proved entirely plausible and empirically provable in later times.
- B. Anaximander's philosophical speculation on the theory of evolution, as far back as the sixth century BCE, is implausible given the evidence that supports Darwin's theory of evolution, and the tone of the passage seems to suggest that the author finds such idle conjecture as being---at best---immaterial to the trajectories of actual science.
- C. Even though Anaximander had a theory of evolution in the sixth century BCE that seems untenable to our modern minds, the author explains that philosophy is often the source of the large frameworks that inform and inspire scientific imagination.
- D. Between the speculations of Pythagoreans in astronomy, Anaximander and Empedocles in biological evolution, and Democritus on the atomic constitution of matter, the author bemoans the loss of later advances in scientific understanding---though based on these conjectures---from being considered as also belonging to philosophy.



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42. Identify which of the options given below can be folded to make the 3D object in the picture shown below.



43. Shown below are four structures made with rigid elements. They are joined to each other at red points by screws that allow elements to move. Identify the structure/s that is/are NOT rigid.



44. Which of the statements is/are TRUE with respect to the picture shown below?



A, B - structural members of stool, C - Fishing wire, D - Umbrella fabric, E - Socks

- A. A and B need to be strong in tension, and C and E in compression.
- B. C needs to be strong in tension, and A and D in compression.
- C. C and D need to be strong in tension.
- D. B needs to be strong in compression, and all others need to be strong in tension.

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45. Which of the statements is/are TRUE about the FIVE symbols given below?



- A. All are musical notes.
- B. Two are not musical notes.
- C. Only one is not a musical note.
- D. At least three are musical notes.
- 46. Shown below are three panels with cutouts in three shapes. From the given pairs of blocks, identify which pairs will PASS THROUGH all the cutouts.



- A. Only pair A
- B. Only pair C
- C. Only pairs A & C
- D. All pairs A, B and C
- 47. Which of the materials given below was/were used for writing on in ancient India?
  - A. Coconut Leaves
  - B. Palm Leaves
  - C. Bamboo Leaves
  - D. Birch Bark

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48. Shown are logos of different Companies/Organisations. Select the option(s) that identifies (identify) the designers of the logos.



- A. Sudarshan Dheer, Ray and Kesavan
- B. R K Joshi, Benoy Sarkar,
- C. Yeshwant Chaudhary, Vikas Satwalekar
- D. Sudarshan Dheer, R K Joshi
- 49. Below are two patterns created by a repetition of circles. For each of the patterns, identify the configuration of circles from which it has been created, from the set of options given below and then answer the question that follows.



#### Which of the following statements is/are TRUE?

- A. I can be created from 3 and 4; and II can be created from 5 and 6
- B. I can be created from 1 and 2; and II can be created from 5, 6 and 7
- C. I can be created from 4; and II can be created from 6
- D. I can be created from 4 and 5; and II can be created from 6 and 7  $\,$



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50. Shown below are schematic diagrams of a single arm of a 3-fold umbrella. Identify the correct representation/s.





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## **Section C: Multiple Choice Questions**

This section contains a total of 50 Multiple Choice Questions (MCQ). Each MCQ type question has four choices out of which only one is the correct answer. There is NEGATIVE marking for this section. Each correct answer will be awarded 3 marks and each wrong answer will be awarded –1 marks. Questions not attempted will be given zero marks.

- 51. If the following terms were to be written in the sequence: Subphylum, Class, Order, Family and Genus, which one would be correct?
  - A. Mammalia Vertebrata Felidae Carnivora Panthera
  - B. Vertebrata Mammalia Felidae Carnivora Panthera
  - C. Mammalia Carnivora Vertebrata Felidae Panthera
  - D. Vertebrata Mammalia Carnivora Felidae Panthera



53. Choose the colour that should replace the question mark.





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54. Pick an option from the right which will correctly complete the colour pattern on the left.



55. Choose the option that would replace the question mark to correctly complete the pattern.





56. Choose the figure that should replace the question mark.







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57. Choose the set of colours which is present in this painting.





58. Look carefully at the sentence given below. It is written in a specific font. From the options, choose the letter which belongs to the same font family.





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59. Which of the options would replace the missing block?

δ	क	a	द	व	क	ਠ	द	व	ਠ
व	द	व	क	δ	द	व	δ	क	व
a	क	Я	द	व	ਠ	क	व	द	व
ਠ	द	q	ਠ	क	व	द	व	क	ਠ
व	ਠ	क	व	द	व	क	ਠ	द	व
क	व	द	व	क	ਠ	द	व	ਠ	क
द	व	क	ਠ	द	व	ਠ	क	व	द
क			व	ਠ	क	व	द	व	क
द			क	व	द	व	क	ਠ	द
ਠ	क	व	द	व	क	ਠ	द	व	ਠ
व	द	व	क	ਠ	द	व	ਠ	क	व
	ю   а   ю   а   ю   а   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ю   ∞   ∞   ∞   ∞	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ठ   क   व     व   ८   ८     व   ८   ८   ८     ठ   ८   ८   ८     व   ८   ८   ८   ८     व   ८   ८   ८   ८   ८     व   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८   ८	b   a   a     a   a   a   a     a   a   a   a     a   a   a   a     a   a   a   a     b   a   a   a     a   b   a   a     b   a   a   a     b   a   a   a     b   a   a   a     b   a   a   a     b   a   a   a     b   a   a   a     b   a   a   a     c   b   a   a     c   a   a   a     c   a   a   a     c   a   a   a     c   a   a   a	b   a   c   a     a   a   a   b   b     a   a   a   a   a     a   a   a   a   a     b   a   a   a   a     b   a   a   a   a     a   b   a   a   a     b   a   a   a   a     a   a   a   a   a     a   a   a   a   a     a   a   a   a   a     a   a   a   a   a     a   a   a   a   a     a   a   a   a   a     a   a   a   a   a     a   a   a   a   a     a   a   a   a   a     a   a   a   a   a	b   c   c   c     a   c   a   b   c   c     a   c   a   b   c   c   c     a   c   c   a   b   c   c   c     a   c   c   c   c   c   c   c     b   c   c   c   c   c   c   c     c   c   c   c   c   c   c   c   c     c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c	b   a   c   a   b     a   a   a   b   c   a     a   a   a   a   c   a   a     a   b   c   a   a   a   a   a     a   b   c   a   a   a   a   a     b   a   a   a   a   a   a   a     b   a   a   a   a   a   a   a     a   a   a   a   a   a   a   a     a   a   a   a   a   a   a   a     a   a   a   a   a   a   a   a     a   a   a   a   a   a   a   a     a   a   a   a   a   a   a   a     a   a   a   a   a	b   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c	b   b   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c   c



60. Find the odd one out among the letters below.



61. Given below is are three matrices with dots, the dots are arranged using a particular logic. Identify the logic and choose the option that matches the logic of the matrices.





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62. Choose the option that follows the logic of the hatch sequence shown below.



63. Identify the stamp used for printing the sample (in blue) from the options given below.



64. Choose the pattern that completes the sequence shown below.

	+ [ =	- # %	/ ) x	÷	+ ] =	- # %	\ ( x	+ - / → ] # ( = % x	→ ?	
+ [ =	- # %	/ ( x		+ [ =	- # %	\ ) x		+ - \ [ # ) = % x	+ – ] # = %	\ ) x
	Α				в			с	D	



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- 65. In pigment colors, if Green is Blue, Yellow is Green, Blue is White and Red is Yellow, what is the complementary color of White and Green?
  - A. Orange
  - B. Purple
  - C. Red
  - D. Green
- 66. A square piece of paper is folded down into a triangle (as shown), after which a cut is made at a corner (again, as shown). Choose the option that shows the correct cut when the paper is unfolded.



67. The shapes below correspond to different numbers. Choose the option that replaces the question mark.





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68. Choose the option that follows the logic of the sequence shown below.



69. Shown are symbols used for different functions. Identify the correct description sequence from the given choices.



- A. Chemical weapon, Computing, Cosmology, Death
- B. Chemical Bonds, Computing, Aliens, War Zone
- C. Isotopes, Computing, Biohazard, Devil Spirits
- D. Chemical weapon, Radioactive, Biohazard, Toxic
- 70. Shown below are images that have different visual features. Identify the correct sequence of visual features associated with these images from the given choices.









- A. Translational Symmetry, Asymmetric Repetition, Fractal Image, Fibonacci Series
- B. Tessellation, Translational Repetition, Symmetric Repetition, Fractal Image
- C. Fibonacci Series, Tiled Fractals, Figure and Ground Image, Spiral Symmetry
- D. Radial Symmetry, Tessellation, Fractal Image, Rotational Repetition



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- 71. Given below are steps in a typical design process, but they seem to be mixed up. What is the most logical sequence of these steps?
  - I. Build a business out of the idea that is designed.
  - II. Building prototypes to test ideas and get feedback.
  - III. Analysis of the findings, looking for insights and find opportunities for design.
  - IV. Finding a need and locating a problem to solve and trying to understanding the problem by conducting research.
  - V. Product and technology development.
  - VI. Ideation and coming out with initial concepts.
    - A. I, IV, VI, V, III, II
    - B. IV, VI, III, II, V, I
    - C. <sub>IV</sub>, III, VI, II, V, I
    - D. VI, IV, III, II, I, V
- 72. Given below is a write-up on the discovery of the Mouse. But the sentences seem to be mixed up. What is the correct logical sequence of these sentences?
  - I. We use the mouse not just because Doug Engelbart invented it, but because it turned out to be the pointing device that performed best for pointing and clicking on a display, outperforming light pens, cursor keys, joysticks, trackballs, and everything else that was tried in early tests with users.
  - II. Years later, when he was searching for a device to select objects on a computer screen, he remembered those notes, and together with Bill English, he built the first mouse.
  - III. He was bored at a conference, and wrote in his notebook about putting two wheels at right angles to track movement on a plane.
  - IV. The mouse won because it was the easiest to use.
  - V. When he was a student, he was measuring the area under some complex-shaped curves, using a device with wheels that would roll in one direction and slide sideways in the axis at ninety degrees.
  - VI. Doug Engelbart tells the story of how he invented the mouse.
    - A. I, IV, VI, V, III, II B. VI, V, III, II, I, IV C. VI, I, IV, III, V, II
    - D. IV, I, VI, V, III, II

73. Read the following statements related to the earth's environment

- I. Water vapour, and not carbon dioxide, is the most prevalent greenhouse gas in the earth's atmosphere.
- II. Besides China and the United States, India and Brazil are the highest greenhouse emitting countries.
- III. Although about 70% of the Earth is covered by water, and there's more beneath the surface, only about 5% of earth's water is fresh, liquid and found above ground.



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IV. Globally birth rates are fluctuating, people are living longer and the total population is increasing.

Which of the above statements are TRUE?

- A. I&II
- B. ||&|||
- C. 111 & IV
- D. |&|V

74. Read the following statements related to the economy

- I. Rebuilding efforts in the wake of natural disasters can give a boost to the economy.
- II. An increase in consumer spending is most likely to cause a decrease in employment.
- III. Carbon trading helps reduce carbon emissions mainly because low polluters buy excess permits to pollute and high polluters are fined by the carbon regulator.
- IV. Economic growth of a nation increases the demand for labour, thereby raising income levels.

Which of the above statements is/are TRUE?

- A. I&II
- B. ||&|||
- C. IV only
- D. None of the above options
- 75. Read the following design context:

The city of Mumbai is facing a severe shortage of parking spaces. The problem is acute in south Mumbai where land is expensive and undeveloped land almost non-existent. A panel of experts consisting of city and town planners, transportation engineers and designers, economists, historians and policy makers has studied the problem carefully and has recommended a set of measures:

- I. Start a free public bicycle program in which people are encouraged to use public transport for longer distances and shared common bicycles for shorter distances.
- II. Allow people to download a mobile App which will allow vehicle owners to book parking spots up to one week in advance.
- III. Ban vehicles with even registration numbers on the even days of the month, and odd registration numbers on odd days of the month.
- IV. Make parking prohibitively expensive.
- V. Build more multi-storied and underground parking complexes.
- VI. Declare the whole of south Mumbai as a heritage district to prevent any further construction and limit vehicle entry by imposing toll.
- VII. Design self-parking vehicles.
- VIII. Create a car pooling mobile App that will connect people to share cars and reduce the number of cars on the road.
  - IX. Make the roads more pedestrian-friendly.

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X. Institute a parking pricing mechanism which dynamically adjusts the cost of parking based on demand and supply.

Identify FOUR recommendations that will make the most impact in solving the parking problem.

- A. I, IV, VII & X
- B. II, III, V & IX
- C. I, IV, VII & VIII
- D. I, III, V, X
- 76. Identify which option given below can be folded to make the 3D object in the picture shown below.



77. Figures 1 to 5 are views of a cube. From the options given below, choose the sixth view of the cube in the series.





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78. Figure 1 shows an unfolded cuboid. Below it are four options showing four fully-folded cuboids. Identify the cuboid that can be unfolded as Figure 1.



79. The image below shows a 3D object. Only one of the options shows the same object from a different view. Identify it.



80. Read the three statements below and the conclusions deduced from these statements.

#### Statements:

All Surrealists are melted clocks. Some melted clocks are Dalis. All Dalis are macabre works.

#### **Conclusions:**

- (i) Some macabre works are Dalis.
- (ii) Some macabre works are melted clocks.
- (iii) Some Dalis are Surrealist.

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Based on the above, which of the conclusions definitely follows from the statements?

- A. None follows.
- B. Only (i) follows.
- C. Only (i) and (ii) follow.
- D. Only (iii) follows.
- 81. Select the option that best explains how the two statements below are related.

The fiction novel, Gone Girl, by Gillian Flynn, was very popular.

It was on several bestseller lists in the US for over 34 weeks in 2012, and later made into a movie.

- A. The first sentence contradicts the second.
- B. The first sentence explains the meaning of the second.
- C. The second sentence explains why the book is popular.
- D. The second sentence provides evidence for the first.

82. The building shown in Picture 1 can look as it does in Picture 2 if photographed using:



Picture 1



Picture 2



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A. Tilt-Shift LensB. Mirror LensC. USM Lens

D. Stereoscopic Lens

83. Three views of a block with seven different shapes printed on its surfaces are shown below. Find the same block from the options given.



84. The green arrow is pointing at a mark on a DSLR camera body. What does this mark represent?



- A. Infinity Focus
- B. Closed Aperture
- C. Focal Plane
- D. Firmware Reset

85. The image below shows a product designed by Raymond Loewy. Identify the product.



- A. Pencil sharpener
- B. Turbine engine

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- C. Children's toy
- D. Automobile decal
- 86. These are modified images by famous artists. Identify the correct sequence of artists of the original images.



- A. Leonardo da Vinci, Vermeer, Van Gogh, Michaelangelo
- B. Michaelangelo, Vermeer, Van Gogh, Leonardo da Vinci
- C. Michaelangelo, Rembrandt, Van Gogh, Leonardo da Vinci
- D. Leonardo da Vinci, Rembrandt, Van Gogh, Michaelangelo
- 87. These images are made using different art techniques. Identify the correct sequence of techniques from options below.



- A. Oil Paint, Crayon, Watercolour, Pastel
- B. Ink, Acrylic, Oil Paint, Tempera
- C. Watercolour, Crayon, Acrylic, Oil Paint
- D. Tempera, Pastel, Oil Paint, Acrylic
- 88. Given below are steps to tie a shoelace, but the steps seem to be mixed up. What is the correct logical sequence of these steps?
  - 1. Pass one end of the shoelace under the other.
  - 2. Pull tight.
  - 3. Hold one end of each shoelace in each hand.
  - 4. Cross them, making an X.
  - 5. Bend it into a flat loop and pull through, making a bow.
  - 6. Fold one shoelace in half while holding laces taut.
  - 7. Grasp it in the middle after pulling it around the folded end.
  - 8. Wrap the other end around the folded end.





The Correct Order is:

- A. 6, 2, 3, 7, 3, 5, 8
- B. 3, 4, 1, 2, 6, 8, 7, 5
- C. 6, 4, 3, 1, 8, 5, 7, 2
- D. 5, 6, 4, 2, 7, 8, 3, 1
- 89. Given below is a list of sixteen idioms which originated from sports. Each option contains four sports. Identify the option that has all its four sports represented in at least one of the idioms in the list.
  - i. Back to square one
  - ii. Ball in his court
  - iii. Below par
  - iv. Breaking one's duck
  - v. Down to the wire vi.
  - vii. Full court press
  - viii. Going the distance
  - ix. Jump the gun
  - x. Level playing field
  - xi. On the back foot
  - xii. Play it close to one's chest
  - xiii. Pole position
  - xiv. Saved by the bell
  - xv. xvi. Stalemate
  - Throw in the towel Touché
    - A. Boxing, Baseball, Chess, Cricket
    - B. Basketball, Soccer, Horse Racing, Weight Lifting
    - C. Fencing, Poker, Pole Vault, Tennis
    - D. Athletics, Golf, Motor Racing, Snakes and Ladder
- 90. Shown below is an image made from line segments. Identify the element, from the options at right, which is NOT part of the image.







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91. Read the following paragraph and answer the question that follows.

A language reveals the attitudes of the people who use and shape it. And a whole declension of \_\_\_\_\_\_(i)\_\_\_\_\_\_ terminology can be found in the language in which inter-racial relations have been described inside Britain. At first, we were told, the goal was 'integration'. Now this word rapidly came to mean '\_\_\_\_\_(ii)\_\_\_\_\_': a black man could only become integrated when he started behaving like a white one. After 'integration' came the \_\_\_\_\_(iii)\_\_\_\_\_ of 'racial harmony'. Now once again, this sounded virtuous and desirable, but what it meant in practice was that blacks should be persuaded to live peaceably with whites, in spite of all the injustices done to them every day. The call for 'racial harmony' was simply an invitation to shut up and smile while nothing was done about our grievances. And now there's a new catchword: 'multiculturalism'. In our schools, this means little more than teaching the kids a few bongo rhythms, how to tie a sari and so forth. In the police training programme, it means telling cadets that black people are so 'culturally different' that they can't help making trouble. Multiculturalism is the latest token gesture towards Britain's blacks; and it ought to be exposed, like 'integration' and 'racial harmony', for the \_\_\_\_\_\_(iv)\_\_\_\_\_\_ it is.

In the above passage identify the missing words. The table below contains possible words for each blank. Choose one word from each column for the 4 blanks.

(i)	(ii)	(iii)	(iv)
astounding	organization	time	sham
worrisome	consolidation	place	joy
patronizing	assimilation	opportunity	truth
critical	association	concept	law

#### The correct answer is:

- A) astounding, consolidation, time, law
- B) patronizing, assimilation, concept, sham
- C) critical, association, opportunity, truth
- D) worrisome, organization, place, joy



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92. Read the following paragraph and answer the question that follows.

The most \_\_\_\_\_(i)\_\_\_\_ respect in which ideas have helped mankind is numbers. There must have been a time when homo sapiens was a very rare species, subsisting precariously in jungles and caves, terrified of wild beasts, having difficulty in securing nourishment. At this period the biological advantage of his greater intelligence, which was cumulative because it could be handed on from generation to generation, had scarcely begun to outweigh the disadvantages of his long infancy, his lessened \_\_\_\_\_(ii)\_\_\_\_\_ as compared with monkeys, and his lack of \_\_\_\_\_(iii)\_\_\_\_\_ protection against cold. In those days, the number of men must certainly have been very small. The main use to which, throughout the ages, men have put their technical skill has been \_\_\_\_\_(iv)\_\_\_\_\_ the total population. I do not mean that this was the intention, but that it was, in

fact, the effect. If this is something to rejoice in, then we have occasion to rejoice.

In the above passage identify the missing words. The table below contains possible words for each blank. Choose one word from each column for the 4 blanks.

uncertain appetite unshaven extol	(i)	(ii)	(iii)	(iv)
	equivocal	freedom	hirsute	increase
	inconclusive	agility	stubbled	decrease
	indubitable	confidence	feathery	endanger
	uncertain	appetite	unshaven	extol

The correct answer is

- A. uncertain, freedom, stubbled, extol
- B. equivocal, confidence, unshaven, endanger
- C. inconclusive, appetite, hirsute, decrease
- D. indubitable, agility, hirsute, increase
- 93. On the left hand side are pieces of a jigsaw puzzle. Identify the image that can be reproduced using all the pieces shown at left.





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94. Choose the set of operations (not necessarily in order) that can be applied on form A to get form B?



- A. Cut vertically, Taper, Cut at an angle, Bend, Twist
- B. Cut horizontally, Bend, Cut at an angle, Taper, Twist
- C. Cut vertically, Stretch, Twist, Bend, Cut at an angle
- D. Cut vertically, Twist, Stretch, Cut at an angle, Fold
- 95. Identify the most accurate shadow of the object given below. The arrow indicates direction of light.





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96. At left is an empty glass with a straw in it. From the options given, identify the correct representation of the straw when the glass is half-filled with water.



97. If the given flat shape is revolved about the Y axis by 360°, identify the solid shape that will be generated.





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98. Shown below are schematic diagrams of a regular door latch. X represents the door, and Y represents the frame in the wall. Identify which latch can be used for correctly locking the door.



99. Pick a point on the outermost ring of the maze shown below, in order to find your way home. Each point indicates the direction of your next move. Which point on the outermost ring should be your starting point in order to reach home in the fewest steps?



- A. W
- B. N
- C. NE
- D. NW



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100. Shown below is a triangular prism cut into two parts, P and Q. Identify which option represents part P.



END OF THE QUESTION PAPER



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