Mock Test_02

1. Find the highest power of 11 in 111!.
(A) 9 **(B)** 10
(C) 11 **(D)** 12

2. At his usual rowing rate, a man can travel 60 km downstream in a certain river in 2 hours less than it takes him to travel the same distance upstream. But if he doubles his usual travelling speed, then time taken to cover 60 km in downstream is 200/7 minutes less than the time taken by it to cover the same distance in upstream. What is the speed of the current (in km/h)?
(A) 2 **(B)** 8
(C) 6 **(D)** 4

3. A cask whose capacity is 100 litres is completely filled with wine. 10 litres of wine is taken out and replaced by 10 litres of water. Again 10 litres of the mixture is taken out from the cask and replaced with water. What is the final ratio of wine to water in the cask?
(A) 49:51 **(B)** 63:37
(C) 81:19 **(D)** 71:29

4. Roshan bought a trimmer and because of some fault he sold it to Ajay incurring a loss of 20%. Ajay spent ₹160 on repairing and sold it to Salman incurring a loss of 20%. Salman paid ₹1600 for the trimmer. What was the cost price of the trimmer when Roshan bought it?
(A) ₹2100 **(B)** ₹2400
(C) ₹2300 **(D)** ₹2050

5. P borrowed some money from Q at 12% simple interest for 2 years. After 2 years, he again borrowed 2/3rd the amount he had borrowed from Q, from R at 18% simple interest for 2 years. If the total money borrowed by P is ₹7250, find the money repaid by him after 4 years.
(A) ₹9328 **(B)** ₹9238
(C) ₹9388 **(D)** ₹9338

6. A, B and C entered into a business with initial investment of ₹1250, ₹1350 and ₹1230 respectively. After 7 months, A added ₹936 more while B withdrew ₹780. If the total profit earned by all of them at the end of the year is ₹13680, then find the profit share of A.
(A) ₹4120 **(B)** ₹5760
(C) ₹4080 **(D)** ₹5792

7. What is the distance between the lines $3x + 2y = 5$ and $6x + 4y = 20$.
(A) $5/\sqrt{2}$ units **(B)** $\sqrt{5}$ units
(C) $5/\sqrt{13}$ units **(D)** $5\sqrt{13}$ units

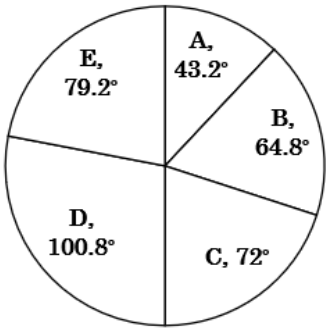
8. (4/3 ÷ 20/7 of 28/5) ÷ (32/5 ÷ 9/2 of 16/3) × (3/4 × 8/3 ÷ 5/9 of 6/5) = k + 7, where 'k' lies between:
(A) -7.0625 and 6.0425 **(B)** -9.0625 and 8.0625
(C) -8.0625 and 7.525 **(D)** -7.0625 and 7.0425

9. The interior angles of a hexagon are in the ratio 3:5:6:7:7:8, and the exterior angles of a pentagon are in the ratio 1:2:3:4:5. Find the positive difference (in degrees) between the measure of the largest interior angle of the pentagon and the measure of the smallest exterior angle of the hexagon.
(A) 94^o **(B)** 140^o
(C) 136^o **(D)** 156^o

10. $(1 + \sin x)/(1 - \sin x) = p^2/q^2$, then secx is equal to:
(A) $1/2 \times (q/p + p/q)$ **(B)** $2p^2q^2/(p^2 + q^2)$
(C) $1/p^2 + 1/q^2$ **(D)** $p^2q^2/(p^2 + q^2)$

11. If x and y are positive numbers, such that $x^2 + y^2 = a$ and $x^2 - y^2 = b$, then 'xy' in terms of a and b equals to:
(A) $\sqrt{(a - b)/2}$ **(B)** $\sqrt{(ab)/2}$
(C) $\sqrt{(a^2 - b^2)/2}$ **(D)** $\sqrt{(b^2 - a^2)/2}$

Direction (12-13): The given pie chart shows the quantity wise distribution of five products (A, B, C, D and E) sold by a company in 2017.



12. If 2030 units of product D were sold in 2017 and the total number of product E sold by the company in 2018 is 40% more than that's sold in 2017, then find the number of units of product E sold in 2018.
(A) 2433 **(B)** 2233
(C) 2844 **(D)** 2744

13. If total number of product B sold by the company is 585, then total number of product A and C together sold by the company is:
(A) 1080 **(B)** 1040
(C) 1020 **(D)** 1050

14. A hemispherical bowl is filled with hot water to the brim. The contents of the bowl are transferred into a cylindrical vessel whose radius is 75% more than its height. The diameter of the bowl is the same as that of the vessel. If the height of the cylindrical vessel is 'x' cm then volume of the hot water in the bowl is:
(A) $505x^3/48$ cm^3 **(B)** $521x^3/48$ cm^3
(C) $539x^3/48$ cm^3 **(D)** $547x^3/48$ cm^3

15. If 'a' is the remainder when 3^{12564} is divided by 5, and 'b' be the remainder when 4^{36} is divided by 6, then find the value of (3a – 2b).
(A) -5 **(B)** 3
(C) -1 **(D)** -3

16. A farmer uses a particular machine for his job which moves along the perimeter of circular area of radius

56 metres in 74 minutes to finish the job. How many minutes more/less will it take him to move along the sides of octagon field of side 27 metres?
(A) 8 minutes **(B)** 15 minutes
(C) 45 minutes **(D)** 28 minutes

17. If (442 – 424 + 242) ÷ 13 + √2304 = x, then {(x/2) + 16} = ?
(A) 40 **(B)** 50
(C) 20 **(D)** 60

18. A shopkeeper sold an article by giving ₹145 discount on the marked price and still gains 24%. If the cost price of the article is ₹1450, then by how much percent the article was marked above its cost price?
(A) 36% **(B)** 42%
(C) 34% **(D)** 40%

19. Rakesh purchased 60 oranges and sold it at as much as profit as the cost price of 20 oranges. Find the profit percentage earned.
(A) (100/3)% **(B)** (162/5)%
(C) 34% **(D)** (55/2)%

20. An article was sold at ₹1677 after giving two successive discounts of ₹14% and ₹22%, respectively, on the marked price. If the article has been marked up by ₹150 above the cost price then find the cost price of the article.
(A) ₹2420 **(B)** ₹2350
(C) ₹2280 **(D)** ₹2500

21. 'A', 'B' and 'C' invested amounts in the ratio of 2:6:5, respectively in a business. After 1 year 'A' added 50% of the amount invested initially, 'B' added 25% of the amount invested initially and 'C' added 40% of the amount invested initially, in their initial investment. After 2 years, the profit received by 'C' is how much percent more/less than the profit received by 'A'?
(A) 130% **(B)** 105%
(C) 120% **(D)** 140%

22. A certain sum when invested at simple interest of 'r%' p.a. becomes 19 times of itself after 24 years. If ₹12,000 was invested at simple interest of (2r/3)% p.a., then the interest earned in 6 years would be:
(A) ₹18,000 **(B)** ₹27,000
(C) Rs, 36,000 **(D)** ₹40,000

23. A milkman mixed two types of milk costing ₹30 per litre and ₹45 per litre in the ratio 7:8, respectively. If the milkman wants to earn a profit of 50% on selling each litre of the mixture, then at what price should he sell each litre of the mixture?
(A) ₹38 **(B)** ₹76
(C) ₹52 **(D)** ₹57

24. 'A' started a business by investing ₹8,000. Six months later, he decided to expand the business and therefore increased is investment by ₹2,000 and also invited 'B' to join him in the business who joined by investing ₹4,000. If at the end of the year, total profit earned from the business was ₹11,11,121, then find the profit share of 'B'.
(A) ₹2,02,220 **(B)** ₹2,20,220
(C) ₹2,02,022 **(D)** ₹2,20,022

25. Which of the following options is correct?
(A) (3/7) > (2/4) > (5/28) **(B)** (3/7) < (5/28) > (2/4)
(C) (2/7) < (5/28)< (3/4) **(D)** (3/4) > (2/7) > (5/28)

26. Find the simplified value of the following expression:
$$\frac{20\% \text{ of } 260+18\div3\times2-4}{6\times4+12 \text{ of } 3}$$
(A) 1 **(B)** 8
(C) 2 **(D)** -2

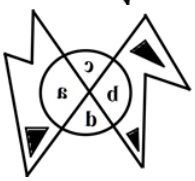
27. A mixture of 50 litres contains only milk and water in the ratio of 3:2, respectively. If 20 litres of the given mixture is replaced with 20 litres of milk, then find the ratio of quantity of milk to that of water in the resultant mixture.
(A) 13:12 **(B)** 19:6
(C) 5:13 **(D)** 13:7

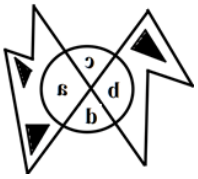
28. If $\tan^2 = 3$, $0^o \leq < 90^o$ then, find the value of sec + sin(/2).
(A) (5/2) **(B)** (1/2)
(C) (3/2) **(D)** 1

29. AD is a median of the triangle ABC. If BC = 8 cm, AC = 12 cm and AD = 16, then find the length of side AB.
(A) 12 cm **(B)** 24 cm
(C) 20 cm **(D)** 10 cm

30. If the height of a tetrahedron is $2\sqrt{6}$ cm, then find the volume of the given tetrahedron.
(A) $18\sqrt{2}$ cm^3 **(B)** $36\sqrt{2}$ cm^3
(C) $18\sqrt{3}$ cm^3 **(D)** $36\sqrt{3}$ cm^3

31. Which of the following among I, II, III and IV will be the correct mirror image of the given figure, if the mirror is placed to its right?

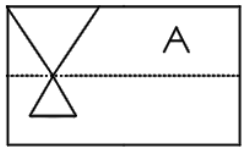
(A)


(B)


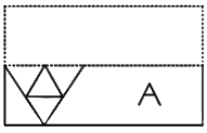
(C)

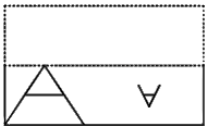

(D)

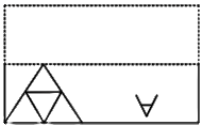

32. Select the option that depicts how the transparent sheet of paper would appear when folded at the dotted line.



(A) 

(B) 

(C) 

(D) 

33. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
20 : 420 :: 10 : 110 :: 15 : ?
(A) 198 **(B)** 171
(C) 175 **(D)** 240

34. Select the option in which the letters share the same relationship as that shared by the same pair of letters:
EP : JU
(A) FR: LS **(B)** IT:NY
(C) HK:DR **(D)** LR:PY

35. Box A is kept 3 m to the west of E which is kept 4 m to the south of B. Box D is to the east of A in a straight line. Box F is x m to the east of box B. Box C is 11 m to the north of F such that boxes C, F and D are in a straight line. If the shortest distances of box B from box F and from box A are equal, then what is the shortest distance between boxes A and C?
(A) 17 m **(B)** 15 m
(C) 11 m **(D)** 12 m

36. N's wife is A's sister-in-law. A is K's only sister and unmarried. R is U's daughter. K is unmarried. U has a brother-in-law. How is K related to R?
(A) Uncle
(B) Nephew
(C) Brother
(D) Cannot be determined

37. In a certain code language, 'A' is written as 'H', 'C' is written as 'O', 'H' is written as 'N', 'M' is written as 'R', 'N' is written as 'A', 'O' is written as 'M' and 'R' is written as 'C'. How will 'NOMARCH' be written in the same code language?
(A) HCONMRA **(B)** AMRHCON
(C) RONMCHA **(D)** MRACNOH

38. If F = 6 and OD = 60 then what is the code for JBW?
(A) 340 **(B)** 215
(C) 460 **(D)** 632

39. In the question below, there are two statements followed by an inference. Mark the correct option accordingly.
(A) Prakash said to Samir, "It makes more financial sense to rent an apartment than to buy one".
(B) Prakash lives in an apartment that he owns.
Inference: Samir lives in a rented apartment.
(A) The inference is definitely true.
(B) The inference is definitely false.
(C) The inference is probably true or false.
(D) The inference cannot be drawn.

40. Eight letters/pair of letters have been given out of which seven are alike in some manner and one is different. Select the odd letter/pair.
EJ, JT, HP, LX, MZ, IR, KV, GO
(A) HP **(B)** MZ
(C) GO **(D)** IR

41. Six persons will register for online courses but in six different months February, March, April, May, August and November. The ones who will register for a designing course will do so in the months that have 31 days while the ones who will register for a coding course will do so in the other months. F and X will register for the same course. R will register immediately after F. T is the last one to register for the designing course. Two people will register in between X and N. Q will not register immediately before N. Who among the given will register for the coding course?
(A) Q, F and X **(B)** F, X and T
(C) R, X and N **(D)** N, R and Q

42. Select the missing number from the given options.

6	5	4
5	1	6
4	2	7
45	22	?

(A) 13 **(B)** 3
(C) 51 **(D)** 21

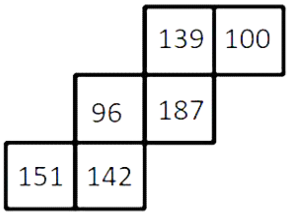
43. Select the combination of letters that when sequentially placed from left to right in the blanks of the given letter series will complete the series.
TT _ IIHJ _ _ _ LI _ _ _ JTTLI _ _ _ _ TTLI _ _ JJ
(A) LIHJIHJJIHJTT **(B)** LLTTIHJJIHJIH
(C) LJTTIHJIHJJIH **(D)** ILHJIHJTTIJIH

44. In the question below, two statements are given followed by conclusions: I, II and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.
Statements: Some eyes are blues.
No blues are ears.
Conclusions: I. All blues are eyes.
II. No ears are eyes.
III. All ears are eyes.

(A) None of the conclusions follow
(B) Only I follows
(C) Either II or III follows
(D) Only II follows

45. In the question below, two statements are given followed by conclusions: I, II and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.
Statements: Some bags are wallets.
All purses are wallets.
Conclusions: I. Some purses are wallets.
II. No bags are purses.
III. All wallets are purses.
(A) Either I or III follows
(B) Only I follows
(C) Only I and II follows
(D) All of I, II and III follow

46. A cube is made by folding the given sheet. In the cube so formed, which number would be on the face opposite to the one showing '100'?



(A) 187 **(B)** 151
(C) 142 **(D)** 96

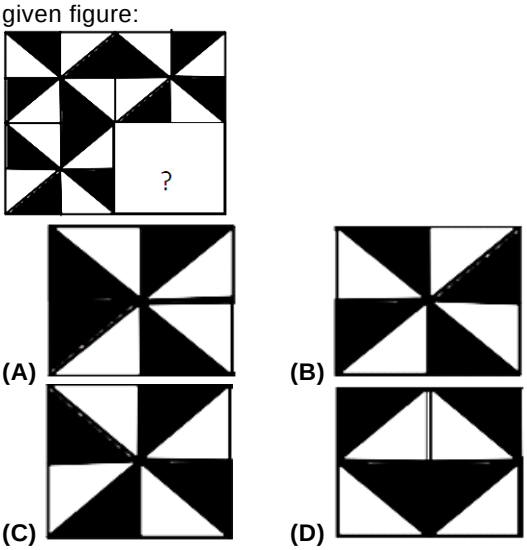
47. Arrange the following words as per order in the dictionary.
1. Concorde **2.** Concrete
3. Concurred **4.** Congrats
5. Conrad **6.** Congress
7. Conjure
(A) 1, 3, 2, 4, 6, 7, 5 **(B)** 1, 2, 4, 3, 6, 7, 5
(C) 1, 2, 3, 4, 5, 6, 7 **(D)** 1, 2, 3, 4, 6, 7, 5

48. In the following question, from the given alternatives, select the word which can be formed from the given word:
COMMUNICATION
(A) MINIMAL **(B)** AUTOMAN
(C) ACCOUNT **(D)** AMMONIA

49. The difference between present ages of Priya and Vedant is 4 years and respective ratio of their ages after 8 years is 6: 7. What is the sum of present ages of Priya and Vedant?
(A) 34 years **(B)** 36 years
(C) 30 years **(D)** 38 years

50. If 14 July, 1995 was a Friday, then what the day of the week was 12 July, 1989?
(A) Wednesday **(B)** Friday
(C) Tuesday **(D)** Saturday

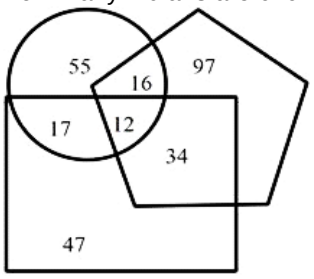
51. Select the figure from the options that complete the given figure:



52. Study the given pattern carefully and select the number that can replace the questions mark (?) in it.
(11, 36, 17), (34, ?, 29), (23, 81, 14)
(A) 25 **(B)** 16
(C) 121 **(D)** 100

53. Rakesh remembers that his wife's birthday is after the 21st. Ajay, who is Rakesh's son remembers that his mother's birthday is on a Monday before the 29th. If 17 was a Thursday, then Rakesh's wife's birthday is on:
(A) 26 **(B)** 22
(C) 28 **(D)** 24

54. In the given Venn diagram, the pentagon represents the cricketer, the circle represents father and the rectangle represent Indian. The numbers given in the diagram represent the number of entities in that category.
How many Indians are cricketer but not father.



(A) 34 **(B)** 12
(C) 46 **(D)** 81

55. In the question below, two statements are given followed by conclusions: I, II and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements: Some maples are syrup.
No maple is a sweet.
Conclusions: I. Some sweet are not syrup.
II. Some syrup are not sweet.
(A) Only I follows **(B)** Only II follows
(C) Both I and II follow **(D)** Either I or II follows

56. Which number in the given series is incorrect?
16, 18, 22, 30, 36, 46, 58
(A) 22 **(B)** 46
(C) 30 **(D)** 36

57. Five different subject's books are kept one above the other in a stack and marked 1 to 5 from top to bottom. Two books are there in between biology and chemistry. Maths is kept immediately below Physics. History is kept below biology, which is not kept at the top. Which of the following is incorrect?
(A) Maths is kept below biology
(B) History is kept below chemistry
(C) Physics is kept above history
(D) Book marked 3 is maths

58. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.
(A) 628 **(B)** 364
(C) 446 **(D)** 834

59. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.
(A) Trunk **(B)** Fern
(C) Herb **(D)** Shrub

60. Some scientists are philosophers. Most of the philosophers donate money to charity.
Conclusion I: Some scientists donate money to charity.
Conclusion II: Most of the people who donate money to charity are philosophers.
(A) Only conclusion I follows
(B) Only conclusion II follows
(C) Both conclusions follow
(D) Neither conclusion I nor conclusion II follows

61. In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error' as your answer.
The water runs into (A)/ an holding tank underground (B)/ and can be pumped to (C)/ various areas when needed. (D)
(A) D **(B)** A
(C) B **(D)** C

Directions: (62-66): Read the following passage carefully and answer the questions.

In recent weeks, paleontologists have reported four new species of prehistoric flying reptiles dating back to the mid-Cretaceous, or about 100 million years ago all found in Morocco. These leathery-winged predators, part of an extinct group known as pterosaurs, were excavated from the Kem Kem fossil beds in southeastern Morocco. Three new species of toothed pterosaur, all part of the Ornithocheiridae family, identified from chunks of jaws studded with pointed teeth, were first reported last month in the journal Cretaceous Research. A fourth pterosaur, Afrotapejara zouhrii, which had no teeth, is the first of its kind found on African soil, identified by part of its skull, according to a University of Portsmouth statement.
These new finds provide an important window into the world of African pterosaurs. We know so much more about pterosaurs from places like Europe and Asia, so describing new specimens from Africa is always very exciting. Researchers hypothesize these soaring hunters had 13-feet-wide wingspans, and snatched fish with their sharp teeth, forming part of an ancient river ecosystem that included crocodiles, turtles and predatory dinosaurs. The fourth species, Afrotapejara zouhrii, would have been similar in size, but toothless with a large crest on the front of its skull. None of these pterosaurs would have weighed much despite their size. Like modern birds, their bones were thin and hollow, allowing the flying reptiles to reach large sizes without becoming too heavy to take off. But this flight adaptation makes pterosaur skeletons less likely to fossilize intact, leaving them scarce in the fossil record. The three chunks of jaw bone from the toothed pterosaurs resemble existing specimens found in Brazil and England, leading researchers to tentatively place them in the genera Anhanguera, Ornithocheirus and Coloborhynchus, respectively. If confirmed, such close evolutionary ties suggest these winged reptiles could have flown hundreds of miles across the newly forming Atlantic Ocean. (Modern birds such as albatrosses make similarly long flights.) Similarly, cousins of the toothless Afrotapejara zouhrii are well known in Brazil and China, with a few others found in Europe, according to a statement.

62. As per the passage, which of the following is false regarding Afrotapejara zouhrii?
(A) It is an African pterosaur.
(B) It was identified by part of its skull.
(C) Owing to its massive size, it weighed a lot.
(D) It did not have teeth.

63. As per the passage, why do the recently discovered pterosaurs not likely to have weighed much?
(A) They were small in size.
(B) Their bones were thin and hollow.
(C) They had air sacs in their bodies.
(D) They were lean.

64. The structure of bones of the flying reptiles had which of the following effects?
(A) It made their skeletons less likely to fossilize intact.
(B) It made their skeletons brittle and likely to fracture.
(C) It made their skeletons likely to be preserved intact.
(D) It made their skeletons have a rich calcium content.

65. If confirmed, the resemblance between the toothed pterosaurs and the existing specimens in Brazil and England, would mean which of the following?
(A) These reptiles were the ancestors of the existing specimens.
(B) These reptiles were the descendants of the existing specimens.
(C) These reptiles flew hundreds of miles across the ocean.
(D) These reptiles evolved simultaneously in two regions.

66. Which of the following hypotheses regarding the newly discovered pterosaurs is not true?
(A) They had 13-feet wide wingspans.
(B) They were found in Morocco.
(C) They formed part of an ancient river ecosystem that included crocodiles, turtles and predatory dinosaurs.
(D) They were herbivores.

Directions: (67-71): Read the following passage carefully and answer the questions.

Two million years ago, three different early humans—Australopithecus, Paranthropus, and the earliest-known Homo erectus—appear to have lived at the same time in the same place, near the Drimolen Paleocave System. How much these different species interacted remains unknown. But their contemporaneous existence suggests our ancient relations were quite diverse during a key transitional period of African prehistory that saw the last days of Australopithecus and the dawn of H. erectus's nearly two-million-year run.
Australopithecus africanus is the most primitive of this trio. The lineage dates to 3.3 million years ago and combines human features with ape-like attributes including long, tree climbing-arms. Despite these intermediate features, Australopithecus's exact relation to modern humans remains unknown. The species is thought to have died out around 2 million years ago. Paranthropus robustus, an offshoot of the human family tree not considered a direct human ancestor, is known for large, powerful jaws and teeth that could pulverize a diet of nuts, seeds, roots and tubers. Paranthropus lived from perhaps 2 million years ago (the remains described in this study are the earliest known) until about 1.2 million years ago. Homo erectus was the first ancestor of modern humans to have human-like body proportions and the first to appear outside of Africa. The species appeared in what is now the nation of Georgia 1.85 million years ago and survived in some Indonesian enclaves until as recently as 117,000 years ago. It's generally believed that they first evolved in Africa, and the cranium find described at Drimolen would push back their earliest-known occurrence anywhere in the world by more than 100,000 years.

67. Which of the following statements about the Homo erectus is false as per the passage?
(A) It was the first ancestor of modern humans ot have human-like body proportions.
(B) It is generally believed that it first evolved in Africa.
(C) It is the first ancestor of modern humans to appear outside of Africa.
(D) It appeared in the nation of Albania 1.85 million years ago.

68. Which of the following statements about the Paranthropus robustus is false as per the passage?
(A) It is not considered a direct human ancestor.
(B) It had a diet consisting of nuts and seeds, roots and tubers.
(C) It had tiny weak jaws and teeth.
(D) It lived until about 1.2 million years ago.

69. Which of the following statements about the Australopithecus africanus is false as per the passage?
(A) It lived 1 million years ago.
(B) It had human as well as ape-like features.
(C) It climbed trees.
(D) Its relation to modern humans is not known.

70. Which of the following types of early humans lived until most recently?
(A) Australopithecus africanus
(B) Paranthropus robustus
(C) Homo erectus
(D) Not specified in the passage

71. Where did the three early human species live at the same time?
(A) Near the Drimolen Paleo Clave System
(B) Near the Serra da Capivara
(C) Cueva de las Manos
(D) Near the Bhimbetka rock shelters

Directions: (72-76): Read the following passage carefully and answer the questions.

The deep sea is vast, empty and dark—not an ideal place for animals to communicate via visual signals. Yet the Humboldt squid (Dosidicus giga), a social species that lives in groups of hundreds of individuals, can communicate visually at depths of 600 feet or more. Cephalopods including squid, octopus and cuttlefish are known for a stunning array of visual displays. These marine creatures possess pigment cells called chromatophores surrounded by muscles that expand and contract, allowing for a wide variety of colorful patterns. While researchers understood these abilities, a question remained regarding just how deep-sea cephalopods might make these displays visible in their dark, deep environment.
New research by Ben Burford of Stanford University and Bruce Robison of the Monterey Bay Aquarium Research Institute (MBARI) suggests that the Humboldt squid uses bioluminescent light organs known as photophores to backlight their visual displays. Much like an e-reader that layers text over a lighting layer, the Humboldt squid layers chromatophores on top of photophores to make their displays easier to see in the dark. (The Humboldt squid, and the current of the same name it is native

to, is named after Alexander von Humboldt, an influential naturalist.)
Many deep-sea creatures use bioluminescence for defense, camouflage and predatory behaviors. One famous example is the anglerfish and its luminescent lure. Some creatures present bioluminescent displays that are sex- and species-specific, allowing them to identify others within their species and gender. Lead author Burford found that the Humboldt squid's use of bioluminescence is unique. "Humboldt squids have small aggregations of luminescent tissue—little dots sprinkled throughout their muscles," Burford says. "Instead of projecting light outwards, what these photophores do is radiate light within the body tissue. They make the whole animal glow."

72. As per the passage, the Humboldt squid is named after _____
(A) the scientist to discovered the squid's bioluminescence property
(B) a small village in east Germany
(C) an influential naturalist
(D) the scientist who discovered this squid

73. As per the passage, how is the Humboldt squid's use of bioluminescence unique in comparison to other animals?
(A) They radiate light outwards from their body.
(B) They have cells that make their entire body glow rather than projecting light outwards.
(C) They can electrocute animals that touch them when they are glowing.
(D) They use bioluminescence for communication unlike any other animal.

74. Which of the following is not mentioned in the passage as one of the reasons why animals use bioluminescence?
(A) camouflage
(B) identification of other individuals within their species and gender
(C) communication
(D) attraction of mates

75. Which of the following animals does not belong to the category of cephalopods as mentioned in the passage?
(A) octopus **(B)** cuttlefish
(C) mussels **(D)** squid

76. What does Burford's and Robison's research suggest about the Humboldt squid?
(A) It is the only cephalopod to be capable of bioluminescence.
(B) It is the only animal to use bioluminescence for communication.
(C) It uses bioluminescent organs to backlight its visual displays.
(D) It uses bioluminescence when threatened.

77. In the following question, out of the four alternatives, choose the one which best expresses the meaning of the given word.
Dulcet
(A) unequivocal **(B)** soothing
(C) sophisticated **(D)** complex

78. In the following question, out of the four alternatives, choose the one which can be substituted for the given words/sentence.
A confusing or difficult problem
(A) Claque **(B)** Cortege
(C) Conundrum **(D)** Credulous

79. In the following question, four different spellings of a word are given, out of which only one is correct. Find the correct spelling of the given word.
(A) ubiquitious **(B)** ubiquitous
(C) ubiquitus **(D)** ubioquitous

80. In the following question, a sentence is given with a phrase or idiom in brackets. Select the option given below that can replace the bracketed phrase.
He had a mercurial temperament and was never one to (hold down) his views, even in the face of opposition.
(A) hold back **(B)** hold off
(C) hold out **(D)** No Improvement

81. In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error' as your answer.
Transfusions are use (A)/ for various medical (B)/ conditions to replace (C)/ lost components of the blood. (D)
(A) D **(B)** A
(C) B **(D)** C

82. In the following question, a sentence has been given in Active/ Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.
The beggar was asking for alms from passers-by.
(A) Alms were being asked by the beggar from passers-by.
(B) Alms are being asked by the beggar from passers-by.
(C) Alms were asked by the beggar from passers-by.
(D) Alms are asked by the beggar from passers-by.

Directions: (83-87): In the following passage, some of the words have been left out and replaced by a blank.

First read the passage and try to understand what it is about. Then fill in the blanks as per the questions given.
George E. Goodfellow, having been _____ from the Naval Academy for fighting, found himself _____ in the art of treating abdominal gunshot wounds. He _____ the first recorded laparotomy (a surgical incision into the abdominal cavity), treated the Earp brothers after their _____ at the O.K. Corral and, in an ironic twist, married Katherine Colt, cousin of Samuel Colt, the inventor of the namesake revolver that played a unique _____ in fomenting his career as America's top gunshot physician.

83. having been _____ from the
(A) exempted **(B)** expelled
(C) extracted **(D)** exhausted

84. found himself _____ in the art
(A) skilled **(B)** scorned
(C) stumped **(D)** stirred

85. He _____ the first recorded laparotomy
(A) performed **(B)** pervaded
(C) postulated **(D)** presented

86. after their _____ at the O.K. Corral
(A) brunt **(B)** burden
(C) brisk **(D)** battle

87. a unique _____ in fomenting his career
(A) roll **(B)** role
(C) rule **(D)** ruin

88. In the question below, an idiom is given, followed by four options. Select the option that gives the correct meaning of the idiom.
I am going to **pass the torch** to managing the household to my daughter-in-law after the wedding rituals
(A) to pass on the responsibility
(B) to have a natural interest
(C) to keep in touch
(D) to not let someone have something

89. In the following question, out of the four alternatives, choose the one which can be substituted for the given words/sentence.
The sound of owls
(A) Hoot **(B)** Bell
(C) Bellow **(D)** Cackle

90. In the following question, a sentence has been given in Direct/ Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Direct/ Indirect speech.
"John works at a factory which is a little distance away from here," said the boy.
(A) The boy said that John worked at a factory which was a little distance away from there.
(B) The boy said that John worked at a factory a little distance away from there.
(C) The boy said that John worked at a factory a little distance away from here.
(D) The boy said that John had been working in a factory which was a little distance away from there.

Space For Rough Work