## SSC GD CONSTABLE PRACTICE SET

## Answers with Explanation

1. (c) Bread is prepared by baking the dough. Similarly, curd is manufactured by the fermentation of milk.

खाড্ভির্स
2. (b) Happy is the antonym of Dismal. Similarly, Proud is the antonym of Humble.
3. (c) Powerful is antonym of weak. Similarly, victory is antonym of defeat.
4. (d) Students go to college to study different courses. Similarly, patients go to hospital for treatment.
5. (c) The sound made by Donkey is called Brays. Similarly, the sound made by Monkey is called Chatter.
6. (b) E is the son of B .

ख्याज्ञिय
A is the brother of B .
Therefore, E is nephew of A .
7. (a)


Clearly, Y is S (and R's) mother's brother.
i.e., $Y$ is uncle (maternal of $S$ (and R's).
8. (a) $L$ is son of $R$ and $R$ is daughter of $P$.

Therefore, L is grandson of P .
9. (a)

| $+\Rightarrow-$ | $-\Rightarrow=$ | $=\Rightarrow+$ |
| :---: | :---: | :---: |
| $\div \Rightarrow>$ | $\times \Rightarrow<$ |  |

$8+4-$ ?
आறাভ্ভির্ম
$\Rightarrow 8-4=$ ?
$\therefore$ ? $=4$
10. (c)

| $-\Rightarrow+$ | $+\Rightarrow-$ |
| :---: | :---: |
| $\times \Rightarrow \div$ | $\div \Rightarrow \times$ |

? $=7-10 \times 5 \div 6+4$
$\Rightarrow ?=7+10 \div 5 \times 6-4$
$\Rightarrow ?=7+2 \times 6-4$
$\Rightarrow ?=7+12-4=15$
11. (c) $33 \times 11 \div 3-6=115$

$$
\begin{aligned}
& \Rightarrow\left(\frac{363}{3}\right)-6=115 \\
& \Rightarrow 121-6=115
\end{aligned}
$$

12. (a) Head is a part of human body. Similarly, arc is a part of a circle. Here, 'Part-Whole' relationship has been shown.
13. (c) The scientific study of Fungi is called Mycology. Similarly, the scientific study of tissue is called Histology. फ़ाबिएर्य
14. (a) Water flows continuously in the river but water remains stagnant in the pond.
15. (d) There is no ' $T$ ' letter in the given word. Therefore, the word INITIAL cannot be formed.
$P \mathrm{RO}$ V N C I ALIS $M$
$\Rightarrow$ S AILOR
PROVINCIIALISM
$\Rightarrow$ N A I L
ख্যাভ্ভির্স
P R O V I N C I A L I M
$\Rightarrow \mathrm{MAN}$
16. (c) There is only one ' O ' in the given word. Therefore, the word CONNOTE cannot be formed.
UNCONTAMINATED
$\Rightarrow$ M INE
UNC ONTAM IN ATED
$\Rightarrow$ N A T I O N
UNCONTA M NATED
$\Rightarrow$ T A N D E M
17. (d)


खुण্ভির্স

Required distance $=2$ metres
18. (b)


Required distance
$=30 \mathrm{~m}+20 \mathrm{~m}=50 \mathrm{~m}$
19. (b) Today is Saturday.

Tomorrow will be Sunday.
Sunday +4 = Thursday.
फ़ापिएय
20. (a) The given number series is based on the following pattern:
$1 \times 3=3$
$3 \times 4=12$
$12 \times 5=60$
$60 \times 6=\mathbf{3 6 0}$
21. (a) The given number series is based on the following pattern :
$(1)^{3}-1=0$
$(2)^{3}-2=6$
$(3)^{3}-3=24$
$(4)^{3}-4=60$
$(5)^{3}-5=120$
$(6)^{3}-6=210$
22. (d)

| B | R | O | T | H | E | R |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ |
| 2 | 4 | 5 | 6 | 7 | 8 | 4 |
| S | I | S | T | E | R |  |
| $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ |  |
| 9 | 1 | 9 | 6 | 8 | 4 |  |

Therefore,

| R | O | B | B | E | R | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ |
| 4 | 5 | 2 | 2 | 8 | 4 | 9 |

23. (c) Both the Premises are Universal Affirmative (A-type).
All men are women.


All women are crazy.
A + A $\Rightarrow$ A - type of Conclusion
फुप्িियन
"All men are crazy".
This is Conclusion I.
Conclusion III is the Converse of it.
Conclusion IV is the Converse of Statement Q.
24. (b)


The triangles are :
$\Delta \mathrm{FAB} ; \triangle \mathrm{FAC} ; \Delta \mathrm{FEB} ; \Delta \mathrm{FEC} ;$
$\Delta \mathrm{FDB} ; \Delta \mathrm{FDC} ; \triangle \mathrm{AEB} ; \triangle \mathrm{AEC} ;$
$\triangle \mathrm{ADB} ; \triangle \mathrm{ADC} ; \triangle \mathrm{EDB} ; \triangle \mathrm{EDC} ;$
$\triangle \mathrm{EBC} ; \triangle \mathrm{FBC} ; \triangle \mathrm{ABC} ;$
25. (d)


The triangles are :
$\Delta \mathrm{AJB} ; \Delta \mathrm{CBD} ; \triangle \mathrm{EDF} ; \Delta \mathrm{GFH} ;$
$\triangle \mathrm{HJF} ; \triangle \mathrm{IHJ} ; \triangle \mathrm{CJF} ; \triangle \mathrm{HEA} ;$
$\Delta \mathrm{DAG} ; \triangle \mathrm{BIE} ; \triangle \mathrm{JGC} ; \Delta \mathrm{FCI} ;$
$\Delta \mathrm{JIF} ; \triangle \mathrm{FJG} ;$
26. (b) The Indo-Greek kings were the first to issue gold coins in India and their coins were special in the sense that each king had his own distinctive coins by which he could be definitely identified. The names of at least thirty Bactrian kings are known with the help of numerous coins, and they help in the reconstruction of the history of the kings. The coins carry legends in Greek and also in Kharosthi and Brahmi.

ख্ডাভির্স
27. (a) The Third Buddhist council was convened in about 250 BCE at Asokarama in Pataliputra, supposedly under the patronage of Emperor Asoka. The traditional reason for convening the Third Buddhist Council is reported to have been to rid the Sangha of corruption and bogus monks who held heretical views. It was presided over by the Elder Moggaliputta Tissa and one thousand monks participated in the Council.

आपডिधिय
28. (d) The Government of India Act 1935 provided for the establishment of a "Federation of India", to be made up of both British India and some or all of the "princely states". The parts of the Act intended to establish the Federation of India never came into operation, due to opposition from rulers of the princely states. It also provided for the establishment of a Federal Court.

फ़ाजियन
29. (d) Jupiter is the biggest planet in our Solar System. It is the largest by mass, volume, and surface area among other statistics. Here are the critical measurements of Jupiter as well as a few other interesting facts about the planet and other bodies in the Jovian system
30. (d) Vaidehi Dongre, a 25-year-old girl from Michigan, has been crowned Miss India USA 2021 at the beauty pageant. Arshi Lalani from Georgia was declared the first runner up and North Carolina's Mira Kasari was declared the second runner up.

फ्याइ्িिएन
31. (c)
32. (d) Kailashnath Temple is a famous temple, one of the 34 monasteries and temples, extending over more than 2 km , that were dug side by side in the wall of a high basalt cliff in the complex located at Ellora, Maharashtra, India. Of these 34 monasteries and temples, the Kailasa (cave 16) is a remarkable example of Dravidian architecture on account of its striking proportion; elaborate workmanship architectural content and sculptural ornamentation of rock-cut architecture. It is designed to recall Mount Kailash, the abode of Lord Shiva. It is a megalith carved out of one single rock. It was built in the 8th century by the Rashtrakuta king Krishna I.
33. (d) Legal sovereignty represents the lawyer's conception of sovereignty. It is associated with the supreme law-making authority in the state. The body which has the power to issue final commands in the form of laws is the legal sovereign in a state. This power may be vested in one person or a body of persons. It may be a king or dictator or parliament. Legal sovereignty is organized and re-organized by constitutional law.

फुणিिির্ম
34. (c) A supernova is a stellar explosion that is more energetic than a nova. During this short interval a supernova can radiate as much energy as the Sun is expected to emit over its entire life span. The explosion expels much or all of a star's material at a velocity of up to $30,000 \mathrm{~km} / \mathrm{s}$ ( $10 \%$ of the speed of light).
35. (c) Halebidu (literally "ruined city"), also known as Dwarasamudra, was the regal capital of the Hoysala Empire in the 12th century. It is home to one of the best examples of Hoysala architecture in the ornate Hoysaleswara and Kedareswara temples. This name is given because this city was ruined two times by Bahmani Sultanate.

खुप्িिए
36. (b) Vantika Agarwal has won the National Women Online Chess title. She scored 9.5 points from 11 rounds. Arpita Mukherjee of West Bengal took the second spot and Tamil Nadu's Sreeja

Seshadri secured the third spot in the competition.

फ़ापिएर्य
37. (a) The hole size will increase because in expansion the size between two molecules do not increase so when the molecules on the outer edge move outward. Due to expansion, the size of the hole will also increase so as to compensate the distance change between the molecules. Thermal expansion is the tendency of matter to change in volume in response to a change in temperature. When a substance is heated, its particles begin moving more and thus usually maintain a greater average separation.
38. (d) India is a democratic country. People of India elect their representative through direct franchise and representatives elect the government to make or amend rules \& regulations and to carry out day to day functioning of governance. One basic principle of democracy is that people are the source of all political power. In a democracy, people rule themselves through institutions of selfgovernance.

काजिएর
39. (d) Aristotle was a Greek philosopher and polymath, a student of Plato and teacher of Alexander the Great. Together with Plato and Socrates (Plato's teacher), Aristotle is one of the most important founding figures in Western philosophy. Aristotle's writings were the first to create a comprehensive system of Western philosophy, encompassing morality, aesthetics, logic, science, politics, and metaphysics. Aristotle was invited by Philip II of Macedon to become the tutor to his son Alexander in 343 BC. Aristotle was appointed as the head of the royal academy of Macedon. During that time he gave lessons not only to Alexander, but also to two other future kings: Ptolemy and Cassander. Aristotle encouraged Alexander toward eastern conquest. फुणापिस्त
40. (d) Nepal Himalayas has the maximum stretch from east to west. Along the north of Nepal runs the Great Himalayan Range, the highest mountain range in the Himalayan system. This range has an average altitude of about 4,570 m (about $15,000 \mathrm{ft}$ ) and remains perpetually snow-covered. On this range rise some of the loftiest mountain peaks in the world - Mount Everest, Kanchenjunga, Lhotse, Makalu, Cho Oyu, Dhaulagiri, Manaslu, and Annapurna. Further south runs a complex system of
intermediate ranges at an altitude of 8,000$14,000 \mathrm{ft}$. Prominent ranges in this mountain system include the Mahabharata and Churia ranges. High mountain ranges are interspersed with broad inhabited river valleys. The third and southernmost region is the Terai, a swampy terrain which is the northern extension of the Indian plains. फुणिएर्स
41. (c) Portions of the development and history of the hydrogen bomb remain classified. But it is public knowledge that its chief architect was Dr. Edward Teller. The first H bomb (or thermonuclear bomb/fusion bomb) detonated was on November 1, 1952 in Enewetak in the Marshall Islands. The hydrogen bomb is also called the Teller-Ulam design, after Edward Teller and Stanislaw Ulam who helped in the project too.

फ्याप्जिएन
42. (b) In terms of Section 22 of the Reserve Bank of India Act, the RBI has been given the statutory function of note issue on a monopoly basis. The note issue in India was originally based upon "Proportional Reserve System". When it became difficult to maintain the reserve proportionately, it was replaced by "Minimum Reserve System ". According to the RBI Amendment Act of 1957, the bank should now maintain a minimum reserve of Rs. 200 crore worth of gold coins, gold bullion and foreign securities of which the value of gold coin and bullion should be not less than Rs. 115 crore.

फ़ाप्डिस्त
43. (c) World Nature Conservation Day is observed on 28th July every year. The main objective of celebrating this day is to raise awareness about protecting nature and adopting best practices for conserving our natural resources.
44. (b) An onion has a modified form of stem called a bulb, or more specifically a tunicate bulb. In this type of modified stems, the stem is enclosed by a covering of leaves and it is underground. The bulb contains a few outside layers that are dry and membranous that encircles the bulb, which is where tunicate comes from. Nutrients for the plant are stored within the bulb.

फ्याज्ञिस
45. (d) The system of Sati was abolished in India during the governor-generalship of Lord William Bentinck. It was on 4 December 1829, when the practice was formally banned in all the lands under Bengal Presidency by Bentinck.

By this regulation, the people who abetted sati were declared guilty of "culpable homicide." Under the British control, Jaipur banned the practice in 1846.

खुपिएय
46. (d) MAO College (or Muhammadan Anglo-Oriental College) was founded by Sir Syed Ahmed Khan, the leader of Muslim renaissance in Indian subcontinent, in 1875 at Aligarh. This later became Aligarh Muslim University in 1920. Mohammedan Anglo Oriental (MAO) College in 1875 marks one of the most important events in the educational and social history of modern India. Its establishment is considered as the first significant response of the Indian Muslims to the challenges of post 1857 era. It was an important catalyst in a process of social change among Muslims. Lord Lytton laid the foundation stone of the Muhammadan Anglo Oriental College on January 8, 1877. It became Aligarh Muslim University In 1920 by the act of Parliament of India. खुण्ञिएर्ज
47. (a) Poliomyelitis, often called polio or infantile paralysis, is an acute, viral, infectious disease spread from person to person, primarily via the fecal-oral route. The term derives from the Greek poliós, meaning "grey", myelós, referring to the grey matter of the spinal cord, and the suffix -itis, which denotes inflammation., i.e., inflammation of the spinal cord's grey matter, although a severe infection can extend into the brainstem and even higher structures, resulting in polioencephalitis, producing apnea that requires mechanical assistance such as an iron lung. काजिएर्य
48. (a) Indian Wrestler Priya Malik has won a Gold Medal at the 2021 World Cadet Wrestling Championship in Budapest, Hungary.
49. (c) The Eastern Coastal Plains refer to a wide stretch of landmass of India, lying between the Eastern Ghats and the Bay of Bengal. It stretches from Tamil Nadu in the south to West Bengal in the north. It is locally known as Northern Circars in the northern part between Mahanadi and Krishna rivers and Coromandel Coast in the southern part between Krishna and Kaveri rivers. खुपগ্ভির্ট
50. (a) The fundamental rights were included in the First Draft Constitution (February 1948), the Second Draft Constitution (17 October, 1948) and final Third Draft Constitution (26

November, 1949) prepared by the Drafting Committee. The fundamental rights were included in the constitution right from its beginning because they were considered essential for the development of the personality of every individual and to preserve human dignity.
51. (b) Let the number be $x$.

खुप्विज्य
According to the question,
$\mathrm{x}+25=3 \mathrm{x}-3$
$\Rightarrow 3 \mathrm{x}-\mathrm{x}=25+3$
$\Rightarrow 2 \mathrm{x}=28 \Rightarrow \mathrm{x}=14$
52. (a) 84 ) 8961 (106

$$
\begin{aligned}
& \frac{84}{561} \\
& 504 \\
& \hline \times 57
\end{aligned}
$$

$$
\Rightarrow \text { Remainder }
$$

$\therefore$ Required number $=84-57=27$
53. (c) Let the number is $x$.

According to the question
$\frac{1}{2}$ of $\frac{3}{4}$ of $x=2 \frac{1}{2}$ of 10
$\Rightarrow \frac{3 \mathrm{x}}{8}=\frac{5}{2} \times 10$
खुप्डियन
$\Rightarrow \mathrm{x}=\frac{5 \times 10 \times 8}{3 \times 2}=\frac{200}{3}=66 \frac{2}{3}$
54. (d) Let the numbers be $6 x$ and $6 y$ where $x$ and $y$ are prime to each other.
$\therefore 6 x \times 6 y=216$
$\Rightarrow \mathrm{xy}=\frac{216}{6 \times 6}=6$
$\therefore \mathrm{LCM}=6 x y=6 \times 6=36$
55. (d) The greatest number of five digits is 99999 .

LCM of $3,5,8$ and 12

| 2 | $3,5,8,12$ |
| :--- | :--- |
| 2 | $3,5,4,6$ |
| 3 | $3,5,2,3$ |
|  | $1,5,2,1$ |

$\therefore \mathrm{LCM}=2 \times 2 \times 3 \times 5 \times 2=120$
After dividing 99999 by 120 , we get 39 as remainder
$99999-39=99960$
फ्राप्षिएन
$=(833 \times 120)$
99960 is the greatest five digit number divisible by the given divisors.
In order to get 2 as remainder in each case we will simply add 2 to 99960.
$\therefore$ Greatest number $=99960+2=99962$
56. (c) First part $=\frac{\frac{30}{7}-\frac{1}{2}}{\frac{7}{2}+\frac{8}{7}}$

खुप्ञिए
$=\frac{\frac{60-7}{14}}{\frac{49+16}{14}}=\frac{53}{14} \times \frac{14}{65}=\frac{53}{65}$
Second part $=\frac{1}{2+\frac{1}{2+\frac{1}{\frac{25-1}{5}}}}$
$=\frac{1}{2+\frac{1}{2+\frac{5}{24}}}=\frac{1}{2+\frac{1}{\frac{48+5}{24}}}$
$=\frac{1}{2+\frac{24}{53}}=\frac{1}{\frac{106+24}{53}}=\frac{53}{130}$
ऊাড্ভির্স
$\therefore$ Expression
$=\frac{53}{65} \div \frac{53}{130}=\frac{53}{65} \times \frac{130}{53}=2$
57. (a) $\frac{1}{9}+\frac{1}{6}+\frac{1}{12}+\frac{1}{20}+\frac{1}{30}+\frac{1}{42}+\frac{1}{56}+\frac{1}{72}$
$=\frac{1}{9}+\frac{1}{2 \times 3}+\frac{1}{3 \times 4}+\frac{1}{4 \times 5}+\frac{1}{5 \times 6}+\ldots . \frac{1}{8 \times 9}$
$=\frac{1}{9}+\frac{1}{2}-\frac{1}{3}+\frac{1}{3}-\frac{1}{4}+\ldots . \frac{1}{8}-\frac{1}{9}=\frac{1}{2}$
58. (a) $(0.9)^{3}+(0.1)^{3}$
$=0.729+0.001=0.73$
59. (a) Average contribution of 9 students of the class $=₹ \mathrm{x}$ (let).
According to the question,
$\frac{7 \times 50+\mathrm{x}+50+\mathrm{x}+90}{9}=\mathrm{x}$
$\Rightarrow 350+2 \mathrm{x}+140=9 \mathrm{x}$
$\Rightarrow 9 \mathrm{x}-2 \mathrm{x}=490$
$\Rightarrow 7 \mathrm{x}=490$
$\Rightarrow \mathrm{x}=\frac{490}{7}=₹ 70$
फुणिিर्स
60. (c) $\mathrm{M}+\mathrm{T}+\mathrm{W}+\mathrm{TH}=4 \times 37=148^{\circ} \mathrm{C}$
$\mathrm{TH}+\mathrm{F}+\mathrm{S}+\mathrm{S}=4 \times 41=164^{\circ} \mathrm{C}$
$\mathrm{M}+\mathrm{T}+\ldots .+\mathrm{S}+\mathrm{S}=7 \times 39=273^{\circ} \mathrm{C}$
$\therefore$ The temperature of the fourth day
$=148+164-273=39^{\circ} \mathrm{C}$
61. (c) $\mathrm{A}: \mathrm{B}=\frac{1}{2}: \frac{3}{8}=4: 3=8: 6$

B:C $=\frac{1}{3}: \frac{5}{9}=3: 5=6: 10$
$\mathrm{C}: \mathrm{D}=\frac{5}{6}: \frac{3}{4}=10: 9$
क्याष्पिर्य
$\therefore \mathrm{A}: \mathrm{B}: \mathrm{C}: \mathrm{D}=8: 6: 10: 9$
62. (a) $\frac{\mathrm{W}_{1}}{\mathrm{~W}_{2}}=\frac{2}{3}$
$\Rightarrow \frac{\mathrm{W}_{2}}{\mathrm{~W}_{1}}=\frac{3}{2}$ and $\frac{\mathrm{W}_{1}}{\mathrm{~W}_{3}}=\frac{1}{2}$
$\therefore \frac{\mathrm{W}_{2}}{\mathrm{~W}_{1}} \times \frac{\mathrm{W}_{1}}{\mathrm{~W}_{3}}=\frac{\mathrm{W}_{2}}{\mathrm{~W}_{3}}=\frac{3}{2} \times \frac{1}{2}=\frac{3}{4}=3: 4$
63. (d) S.P. $=₹ 100$
C.P. $=80$
$\therefore$ Gain $=₹ 20$
$\therefore$ Gain percent $=\frac{20}{80} \times 100=25 \%$
64. (a) Gain percent $=\frac{11}{33} \times 100=\frac{100}{3}=33 \frac{1}{3} \%$
65. (c) $x=\sqrt{\frac{\sqrt{5}+1}{\sqrt{5}-1} \times \frac{\sqrt{5}+1}{\sqrt{5}+1}}=\sqrt{\frac{\sqrt{(\sqrt{5}+1)^{2}}}{5-1}}$ कापिषार्य
$=\sqrt{\frac{(\sqrt{5}+1)^{2}}{4}}=\frac{\sqrt{5}+1}{2}$
$\therefore 5 x^{2}-5 x-1$
$=5\left(\frac{\sqrt{5}+1}{2}\right)^{2}-5 \frac{(\sqrt{5}+1)}{2}-1$
$=5\left(\frac{5+1+2 \sqrt{5}}{4}\right)-\frac{5 \sqrt{5}+5}{2}-1$
$=5\left(\frac{3+\sqrt{5}}{2}\right)-\frac{5 \sqrt{5}+5}{2}-1$
$=\frac{15+5 \sqrt{5}-5 \sqrt{5}-5-2}{2}=\frac{8}{2}=4$
66. (a) $\frac{\mathrm{a}}{3}=\frac{\mathrm{b}}{2} \Rightarrow \frac{\mathrm{a}}{\mathrm{b}}=\frac{3}{2}$

$$
\therefore \frac{2 a+3 b}{3 a-2 b}=\frac{2 \times \frac{a}{b}+3}{3 \times \frac{a}{b}-2}
$$

$=\frac{2 \times \frac{3}{2}+3}{3 \times \frac{3}{2}-2}=\frac{6}{\frac{9-4}{2}}=\frac{12}{5}$
67. (b) $x+\frac{1}{9 x}=4$

फ़ापिएय
On multiplying by 3 ,
$3 \mathrm{x}+\frac{1}{3 \mathrm{x}}=12$
On squaring both sides,
$\left(3 x+\frac{1}{3 x}\right)^{2}=(12)^{2}$
$\Rightarrow 9 x^{2}+\frac{1}{9 x^{2}}+2 \times 3 x \times \frac{1}{3 x}=144$
$\Rightarrow 9 x^{2}+\frac{1}{9 x^{2}}=144-2=142$
68. (b) $\sec ^{2} \theta+\tan ^{2} \theta=7$
$\Rightarrow 1+\tan ^{2} \theta+\tan ^{2} \theta=7$
$\Rightarrow 2 \tan ^{2} \theta=7-1=6$
$\Rightarrow \tan ^{2} \theta=3$
$\Rightarrow \tan \theta=\sqrt{3}$
$=\tan 60^{\circ}$
$\Rightarrow \theta=60^{\circ}$
$\because 180^{\circ}=\pi$ radian
$\therefore 60^{\circ}=\frac{\pi}{180} \times 60=\frac{\pi}{3}$ radian
69. (a) $\cos x+\cos y=2$
$\because \cos \mathrm{x} \leq 1$
$\Rightarrow \cos x=1 ; \cos y=1$
$\Rightarrow \mathrm{x}=\mathrm{y}=0^{\circ}\left[\because \operatorname{Cos} 0^{\circ}=1\right]$
$\therefore \sin \mathrm{x}+\sin \mathrm{y}=0$
70. (c)


Let $\mathrm{AB}=2 \mathrm{x}$ units
$\Rightarrow \mathrm{BD}=\mathrm{DC}=\mathrm{x}$ units
$\therefore \mathrm{AB}: \mathrm{BD}=2: 1$
खुप्रिিर्य
71. (c)


$$
\begin{aligned}
& A C=B C=5 \mathrm{~cm} \\
& \therefore A B=\sqrt{A C^{2}+B C^{2}} \\
& =\sqrt{5^{2}+5^{2}}=\sqrt{50}=5 \sqrt{2} \mathrm{~cm}
\end{aligned}
$$

72. (d)


ख्याप्जिस
Given : $\mathrm{AB}=5$
DB $=3$
$\therefore \mathrm{AD}=5-3=2$
In the figure we can see that both $\triangle \mathrm{ADC}$ and
$\triangle A B C$ have the same height, $h$.
Area of a triangle
$=\frac{1}{2} \times$ base $\times$ height
When height is constant,
We know, Area of triangle $\alpha$ base,
$\therefore \frac{\text { Area of } \triangle \mathrm{ADC}}{\text { Area of } \triangle \mathrm{ABC}}=\frac{\mathrm{AD}}{\mathrm{AB}}=\frac{2}{5}$
73. (c) Semi-perimeter
$S=\frac{16+12+20}{2}=\frac{48}{2}=24 \mathrm{~cm}$
Area of triangle
$=\sqrt{\mathrm{s}(\mathrm{s}-\mathrm{a})(\mathrm{s}-\mathrm{b})(\mathrm{s}-\mathrm{c})}$
फ्याप्रिजन
$=\sqrt{24(24-16)(24-12)(24-20)}$
$=\sqrt{24 \times 8 \times 12 \times 4}=96 \mathrm{sq} . \mathrm{cm}$.
74. (b) $2 \mathrm{p}+\frac{1}{\mathrm{p}}=4$
$\Rightarrow \mathrm{p}+\frac{1}{2 \mathrm{p}}=2$
$\therefore\left(p+\frac{1}{2 p}\right)^{3}$
$=\mathrm{p}^{3}+\frac{1}{8 \mathrm{p}^{3}}+3 \cdot \mathrm{p} \cdot \frac{1}{2 \mathrm{p}}\left(\mathrm{p}+\frac{1}{2 \mathrm{p}}\right)$
$\Rightarrow 8=\mathrm{p}^{3}+\frac{1}{8 \mathrm{p}^{3}}+\frac{3}{2} \times 2$
$\Rightarrow \mathrm{p}^{3}+\frac{1}{8 \mathrm{p}^{3}}=8-3=5$
75. (b) $x+\frac{1}{x}=2$
$\Rightarrow x^{2}+1=2 x \Rightarrow x^{2}-2 x+1=0$
$\Rightarrow(\mathrm{x}-1)^{2}=0$
$\Rightarrow \mathrm{x}=1$
क्याप्डिर्स
$\therefore \mathrm{x}^{2}+\frac{1}{\mathrm{x}^{3}}=1+1=2$
76. (b) Here, subject it (Africa) is singular. Hence, singular Verb i.e., and it contains about one fifth is the right usage.
77. (c) Hardly $\qquad$ when is correct form of connective. Hence, platform when the train came in is the right usage.
78. (d) No error
79. (a) cognizance (Noun) : notice. take cognizance of (Idiom) : to notice or give attention to
80. (b) whoever (Pro.) : any person who Here, whoever is the right usage.
81. (a) wither (Verb) : to become less waver (Verb) : to become weak or unsteady dither (Verb) : to hesitate about what to do because you are unable to decide Here, wither is the right usage.
82. (b) accountable (Adj.) : responsible for your decisions or actions
Here, for is the right usage.
83. (c) didn't is the right Auxiliary to be used with used to.
Here, didn't he ? is the right usage.
84. (d) mysterious
arcane (Adj.) : secret and mysterious and therefore difficult to understand.
85. (b) regretful
contrite (Adj.) : very sorry for something bad that you have done; regretful.
86. (a) shy
bashful (Adj.) : shy and easily embarrassed.
87. (b) time and again : often; on many or all occasions

- He was warned time and again not to be late to office.

फুাভিির্স The best option is often
88. (a) iron fist : treat people in a severe manner/ strictly

- She rules the office with an iron fist. The best option is strictly

89. (b) saw through : to realize the truth

- You can't fool me any more. I can see through you and all your tricks.
The best option is detected.

90. (b) the gift of the gab : ability to speak well

- My brother really has the gift of gab. He can convince anyone of anything. फुणिएर्य The best option is speak very well.

91. (d) temporary (Adj. ) : lasting for a short time; not permanent.
immortal (Adj.) : that lives or lasts for ever; eternal; permanent.
92. (c) novice ( $\mathbf{N}$ ) : a person who is new and has little experience in a job.
veteran ( $\mathbf{N}$ ) : a person who has a lot of experience in a particular area.
93. (c) imbalance ( $\mathbf{N}$ ) : no same treatment with two or more things; no equilibrium.
equilibrium ( $\mathbf{N}$ ) : a state of balance; a calm state of mind.
94. (d) brewery

कुपा্ভির্শ
brewery ( $\mathbf{N}$. ) : a factory where beer is made bakery (N.) : a place where bread and cakes are made and/or sold cloakroom (N.) : a room in a public building where people can leave coats, bags, etc. for a time
tannery (N.) : a place where animal skins are tanned and made into leather
95. (c) manuscript

क्याप्षिर्य
manuscript (N.) : a copy of a book, piece of music, etc. before it has been printed; handwritten look/document.
handicraft (N.) : activities such as sewing and making cloth that use skill with your hands and artistic ability to make things.
handiwork (N.) : work that you do, or something that you have made, especially using your artistic skill.
thesis (N.): a long piece of writing completed by a student as a part of a university degree, based on his own research.
96. (a) sale (Noun)
97. (d) approved (Adj.)
98. (a) bid (Verb)
99. (b) highest (Adj.)
100. (a) bangs (Verb)

