RRB RPF

TEST SERIES

DATE- __/__/__

DAY- _____

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set 08

QUESTION- 120   MARKS- 120   NEGATIVE MARK- 1/3   DURATION- 90 MIN.

1. USE ONLY BALL PENS WITH BLACK OR BLUE INK

2. AS SOON AS THE EXAMINATION STARTS, YOU MUST CHECK THIS QUESTION BOOKLET AND IF THERE IS ANY UNPRINTED, MUTILATED OR PARTIALLY PRINTED PAGE OR QUESTION IN IT, THEN REPLACE IT WITH THE CORRECT QUESTION BOOKLET THROUGH THE EXAMINER.

3. THERE ARE A TOTAL OF 120 QUESTIONS IN THIS QUESTION BOOKLET.

4. THIS IS AN OBJECTIVE TEST, IN WHICH FOUR OPTIONS ARE GIVEN FOR THE ANSWER TO EACH QUESTION, YOU HAVE TO CHOOSE ONLY ONE OPTION WITH THE CORRECT ANSWER OUT OF THESE FOUR OPTIONS.

5. ANSWERS TO ALL QUESTIONS ARE TO BE WRITTEN ON SEPARATE ANSWER SHEETS.

6. INSTRUCTIONS FOR FILLING THE ANSWER SHEET ARE WRITTEN ON THE BACK SIDE OF THE ANSWER SHEET, READ THEM CAREFULLY BEFORE FILLING THE ANSWER SHEET.

7. BLANK PAGES ARE AVAILABLE IN THIS QUESTION BOOKLET FOR ROUGH WORK.

8. CANDIDATES CANNOT LEAVE THE ROOM BEFORE THE END OF THE EXAMINATION.

9. AFTER THE EXAMINATION IS OVER, YOU CAN GO OUT ONLY WITH HIS PERMISSION AFTER SUBMITTING THE ORIGINAL COPY OF THE ANSWER SHEET TO THE INVIGILATOR.

10. AFTER THE COMPLETION OF THE EXAMINATION, THE CANDIDATE IS ALLOWED TO TAKE THE QUESTION BOOKLET AND ANSWER SHEET WITH HIM/HER.

11. 1 MARKS WILL BE GIVEN FOR EACH CORRECT ANSWER AND 1/3 MARKS WILL BE DEDUCTED FOR EACH WRONG ANSWER.

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10 Years of Excellence

Total: 120 Que.	RPF Set 08	Time: 90 Min.

General Awareness

1). Who among the following was the first officer of Independent India to be conferred the rank of Field Marshal?

(a) Om Prakash Malhotra

(b) Gopal Gurunath Bewoor

(c) Tapishwar Narain Raina   **(d)** Sam Manekshaw

2). Which of the following nutrients stores maximum energy per gram?

(a) Vitamins   **(b)** Proteins   **(c)** Fat   **(d)** Roughage

3). In which of the following states is Kardang Monastery situated?

(a) Sikkim   **(b)** Himanchal Pradesh   **(c)** Karnataka

(d) West Bengal

4). Which Indian state has the second highest population after Uttar Pradesh as per Census 2011?

(a) Bihar   **(b)** West Bengal   **(c)** Maharashtra

(d) Madhya Pradesh

5). The blood vessels that carry blood from the heart to the various parts of the body are called _____.

(a) Arteries   **(b)** Veins   **(c)** Septum

(d) Capillaries

6). Lactometers (used to determine the purity of a sample of milk) and hydrometers (used to determine the density of liquids) are based on the _____ principle.

(a) Archimedes   **(b)** Special Relativity

(c) Relativity   **(d)** Uncertainty

7). Which female golfer become the youngest Indian women to win a Ladies European Tour (LET)title?

(a) Diksha Dagar   **(b)** Aditi Ashok

(c) Amandeep Drall   **(d)** Vani Kapoor

8). Recently Padma Shri award winner Kamala Pujari has passed away. Where was she from?

(a) Kerala   **(b)** Telangana   **(c)** Odisha

(d) Andhra Pradesh

9). In which province of Pakistan is the site of the ancient civilization of Mohenjo Daro located?

(a) Balochistan   **(b)** Sindh

(c) Khyber Pakhtunkhwa   **(d)** Punjab

10). What is the minimum among which can be remitted through Real Time Gross Settlement (RTGS)?

(a) 2,00,000   **(b)** 1,00,000   **(c)** 5,00,000

(d) 3,00,000

11). Name the Sikh Guru who developed the Gurmukhi script for writing the Punjabi language?

(a) Guru Ram Das   **(b)** Guru Hargobind

(c) Guru Tegh Bahadur   **(d)** Guru Angad

12). Who among the following is the author of the book 'What happened'?

(a) Shashi Tharoor   **(b)** Hillary Clinton

(c) Jean Dreze   **(d)** Shimon Peres

13). Who among the following British Prime Ministers had announced the Communal Award in 1932 during India's Freedom Movement?

(a) Herbert Henry Asquith   **(b)** Andrew Bonar Law

(c) David Lloyd George

(d) James Ramsay MacDonald

14). Which among the following is a male part of a flower?

(a) Stigma   **(b)** Stamen   **(c)** Pistil   **(d)** Style

15). The Finance Commission is constituted by the President at the expiration of every _____ year

(a) tenth   **(b)** seventh   **(c)** sixth   **(d)** fifth

16). Which among the following gases is also known as 'Laughing Gas'?

(a) Sulphur dioxide **(b)** Nitrogen oxide

(c) Carbon dioxide **(d)** Carbon monoxide

17). The Prime Minister and the other Ministers of the Indian Union are appointed by the President under _____ of the Constitution of India.

(a) Article 70 **(b)** Article 79 **(c)** Article 75

(d) Article 85

18). As per Census 2011, which state of India has the lowest sex ratio, i.e., number of females per 1000 males?

(a) Uttarakhand **(b)** Haryana **(c)** Bihar

(d) Maharashtra

19). Who among the following soccer stars bagged the FIFA's Best Men's Award?

(a) Cristiano Ronaldo

(b) Neymar da Silva Santos Junior

(c) Lionel Messi **(d)** Luis Suarez

20). Which botanist is credited with creating one of the first widely used natural systems of plant classification?

(a) Joseph Banks **(b)** August Wilhelm Eichler

(c) Joseph Dalton Hooker **(d)** Robert Brown

21). Which British Viceroy of India was associated with the Ilbert Bill enacted in 1884?

(a) Lord Ripon **(b)** Lord Dufferin

(c) Lord Northbrook **(d)** Lord Napier

22). In which ocean is the island country Fiji situated?

(a) Indian Ocean **(b)** Arctic Ocean

(c) Atlantic Ocean **(d)** Pacific Ocean

23). As per Union Budget, Indian economy is globally the _____ largest in Purchasing Power Parity (PPP) terms.

(a) fifth **(b)** second **(c)** third **(d)** fourth

24). Which state is the largest producer of mica in India?

(a) Madhya Pradesh **(b)** Rajasthan

(c) Jharkhand **(d)** Andhra Pradesh

25). Fatwa-i-Alamgiri, a digest of Muslim laws, was written during the period of which of the following kings?

(a) Nadir Shah **(b)** Aurangzeb **(c)** Tipu Sultan

(d) Feroz Shah Tughlaq

26). Which of the following rivers has its origin in Mahabaleshwar?

(a) Kaveri **(b)** Narmada **(c)** Tapti **(d)** Krishna

27). Who has topped the celebrity brand valuation in 2023 recently?

(a) Ranveer Singh **(b)** Rohit Sharma

(c) Virat Kohli **(d)** Ranveer Kapoor

28). With which of the following musical instruments is the musician Sikkil Mala Chandrasekhar associated?

(a) Flute **(b)** Sitar **(c)** Saraswati Veena

(d) Shehnai

29). Who was the founder of Vakataka dynasty in the third century?

(a) Nagabhata **(b)** Vindhyashakti

(c) Pravarasena **(d)** Rudrasena

30). In which city is the head office of the Insurance Regulatory and Development Authority of India (IRDAI) situated?

(a) Hyderabad **(b)** Mumbai **(c)** Kolkata

(d) New Delhi

31). The famous dancer T Balasaraswati was an exponent of which of the following dance forms?

(a) Kuchipudi **(b)** Bharatanatyam **(c)** Kathak

(d) Kathakali

32). In which state is the Sarhul festival celebrated?

(a) Gujarat **(b)** Chhattisgarh **(c)** Assam

(d) Jharkhand

33). The part of the stem where a leaf arises is known as _____.

(a) node   (b) tuber   (c) carpel   (d) bud

---

34). What is the minimum amount of monthly pension permissible under the Atal Pension Yojana?

(a) Rs. 4000   (b) Rs. 1000   (c) Rs. 2000

(d) Rs. 3000

---

35). In which of the following parts of the human digestive system, is the digestion of food completed?

(a) Small intestine   (b) Large intestine   (c) Mouth

(d) Stomach

---

36). The President may issue a proclamation of emergency under Article 356 on receipt of a report from the _____ of a state.

(a) Governor   (b) Chief Justice of High Court

(c) Speaker of the Legislative Assembly

(d) Advocate-General

---

37). According to Article 361 of the Constitution of India, a criminal proceeding cannot be instituted in a court against the _____ during his term of office.

(a) Prime Minister   (b) Vice-President

(c) Governor   (d) Chief Minister

---

38). ._____ is the highest peak of the Satpura range.

(a) Jarha   (b) Dhupgarh   (c) Amarkantak

(d) Delwara

---

39). Where has the central government recently approved a new military airbase?

(a) Goa   (b) Lakshadweep   (c) Visakhapatnam

(d) Chennai

---

40). Which one of the following is NOT a natural fibre?

(a) Terylene   (b) Wool   (c) Flax   (d) Jute

---

41). The weight of an object on the moon is equal to _____ of its weight on the earth.

(a) $1/10^{th}$ (b) $1/6^{th}$ (c) $1/8^{th}$ (d) $1/4^{th}$

---

42). Which of the following nations is at the top of the ICC World Test Championship table?

(a) India   (b) Australia   (c) South Africa

(d) England

---

43). The entire content of a living cell is known as _____ which includes the cytoplasm and the nucleus.

(a) mitochondria   (b) lysosomes   (c) protoplasm

(d) cell membrane

---

44). Which of the following statements is correct?

(a) The first Lok Sabha was constituted in 1952.

(b) The first Lok Sabha was constituted in 1947.

(c) The first Lok Sabha was constituted in 1950.

(d) The first Lok Sabha was constituted in 1948.

---

45). The strongest muscle (based on its weight) of the body is the masseter muscle and is located in the _____.

(a) jaw   (b) hand   (c) chest   (d) thigh

---

46). Which leader of India's freedom movement was called the 'Grand Old Man of India'?

(a) Maulana Abul Kalam Azad

(b) Bal Gangadhar Tilak   (c) Lala Lajpat Rai

(d) Dadabhai Naoroji

---

47). Recently, DMRC has inaugurated the e-waste recycling box facility in collaboration with which country?

(a) Malaysia   (b) Japan   (c) Singapore

(d) Russia

---

48). The Indian Administrative Service and the Indian Police Service are deemed to be services created by the Parliament under:

(a) Article 301   (b) Article 307   (c) Article 292

(d) Article 312

---

49). Who is hosting the 46th World Heritage Session of UNESCO recently?

(a) Mumbai   (b) New Delhi   (c) Bengaluru

(d) Chennai

---

50). Who has recently been appointed as the brand ambassador of 'MotoGP India'?

**(a)** Anil Kapoor **(b)** Sachin Tendulkar

(c) Shikhar Dhawan **(d)** Suresh Raina

Arithmetic

1). If $a + b + c = 6$, $a^2 + b^2 + c^2 = 26$ then what is the value of $ab + bc + ca$?

(a) 0 **(b)** 2 **(c)** 4 **(d)** 5

2). The probability that A can solve the problem is 3/5 and B can solve it is 2/3. If both of them attempt the problem, then what is the probability that the problem gets solved?

(a) $\frac{11}{15}$ **(b)** $\frac{3}{5}$ **(c)** $\frac{2}{5}$ **(d)** $\frac{13}{15}$

3). The price of a motorcycle is cut by $33\frac{1}{3}\%$. To restore to its original value, the new price of motorcycle will be increased by.

(a) $66\frac{2}{3}\%$ **(b)** 50% **(c)** 25% **(d)** 45%

4). A bus travels 720 km in 20 hours. Calculate its average speed in meters/second.

(a) 12 **(b)** 15 **(c)** 18 **(d)** 10

5). A man purchases 105kg of rice at the rate of Rs 10 per kg and 35kg of rice at the rate of Rs 12 per kg. After mixing both, he sells it at 30% profit. What is the total selling price of the rice?

(a) Rs.1911 **(b)** Rs.1956 **(c)** Rs.1867

(d) Rs.1891

6). Average speed of a train with and without stoppage are 45 km/h and 54 km/h respectively. What is the stoppage time per hour?

(a) 8 min **(b)** 10 min **(c)** 12 min **(d)** 15 min

7). A's 2 days work is equal to the B's work of 3 days. If A can complete the whole work in 10 days then to complete the work, B will take:

(a) 14 days **(b)** 15 days **(c)** 12 days

(d) 16 days

8). If $x = 3^{2^3} \times 2^3 \div (\sqrt[3]{729})^2$; then the value of x is:

(a) 648 **(b)** 746 **(c)** 758 **(d)** 636

9). The average marks in Math, Science and English is 72. The average marks in Science, English and History is 64. If the marks in History is 56, what is the marks in Math?

(a) 78 **(b)** 88 **(c)** 80 **(d)** 91

10). The average of 5 numbers is 6. The average of 3 of these numbers is 8. What is the average of the remaining two numbers?

(a) 3 **(b)** 4 **(c)** 4.5 **(d)** 2.5

11). The HCF and LCM of two numbers are 84 and 21 respectively. If the ratio of the two numbers is 1 : 4. Then the larger of two numbers is :

(a) 12 **(b)** 48 **(c)** 84 **(d)** 108

12). The difference between simple interest and compound interest on a certain sum of money for 3 years at 20% per annum is Rs. 674. The sum is:

(a) Rs. 5765.50 **(b)** Rs. 5525.325

(c) Rs. 5265.625 **(d)** Rs. 6120.25

13). The speed of the car increases by 2 km/hr every hour. If the total distance travelled in 8 hours is 728 km, what was the initial speed of the car?

(a) 84 km/hr **(b)** 72 km/hr **(c)** 96 km/hr

(d) 80 km/hr

14). The value of $9 \times 6 \div 24 + 8 \div 2$ of $5 - 30 \div 4$ of $4 + 27 \times 5 \div 9$ is :

(a) $\frac{647}{40}$ **(b)** $\frac{493}{8}$ **(c)** $\frac{259}{8}$ **(d)** $\frac{243}{8}$

15). If the cost price of 16 articles is equal to the selling price of 12 articles and the discount on 12 articles is equal to the profit on 6 articles. What is the percentage point difference between the profit percentage and discount percentage?

(a) 22.22% **(b)** 11.11% **(c)** 33.33%

(d) None of these

16). If $a + a^{-1} = 5$ then $a^3 + a^{-3}$ is:

(a) 80 **(b)** 110 **(c)** 10 **(d)** 140

17). Two circles of radii 8 cm and 6 cm touch each other externally. The length of the direct common tangent is:

(a) 13.86 cm **(b)** 24 cm **(c)** 10.12 cm **(d)** 20 cm

18). A trader marks his goods at 60% above the cost price and allows a discount of 25%. What is his gain percent?

(a) 30% **(b)** 20% **(c)** 25% **(d)** 40%

---

19). Let , A = {1, 2, 3, 4, 5, 6} and B = {1, 3, 5, 7, 9, 11}. Then find the set which represents the shaded portion in the figure given below?
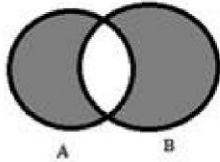
(a) {2, 4, 7, 9, 11} **(b)** {2, 3, 6, 7, 9, 11}

(c) {2, 4, 6, 7, 9, 11} **(d)** {2, 4, 6, 7, 9}

---

20). If $\frac{x+y}{z} = \frac{7}{2}$ and $\frac{y+z}{x} = \frac{5}{4}$, find $\frac{x+z}{y}$?

(a) -1 **(b)** 5 **(c)** 3 **(d)** 2

---

21). If $\left(x + \frac{1}{x}\right) = 2.5$, find the value of $\left(x^4 + \frac{1}{x^4}\right)$?

(a) 16.0625 **(b)** 18.0625 **(c)** 17.0625

(d) 19..025

---

22). Ms. Revathi borrowed Rs. 600 at 6% per annum simple interest. What amount (in rupees) will she pay to clear her debt after 4 years?

(a) 700 **(b)** 150 **(c)** 744 **(d)** 144

---

23). Find the numbers of ways of hitting 5 targets out of 7 targets

(a) 5^7 **(b)** 7^5 **(c)** 5^8 **(d)** 8^5

---

24). A sector is cut out from a circle of diameter 28 cm. If the angle of the sector is 120°. What will be area of the sector?

(a) 205.33 cm^2 **(b)** 195.55 cm^2 **(c)** 215.35 cm^2

(d) 165.22 cm^2

---

25). The sum of the internal angles of a regular polygon is 1620°. What is the number of sides of the polygon?

(a) 12 **(b)** 9 **(c)** 10 **(d)** 11

---

26). The value of $5 - \cfrac{1}{4 + \cfrac{1}{3 - \cfrac{1}{1 + \frac{1}{2}}}}$ is:

(a) $\frac{148}{31}$ **(b)** $\frac{137}{36}$ **(c)** $-\frac{148}{31}$ **(d)** $-\frac{137}{36}$

---

27). Manish after walking 15 km towards east turns 135 degree in the clockwise direction and walks 17 km. How far is he from his starting position?

(a) 12 km **(b)** 8 km **(c)** 10 km **(d)** 9 km

---

28). If A exceeds B by 40%, B is less than C by 20%, then find A : C.

(a) 25 : 28 **(b)** 20 : 27 **(c)** 28 : 25 **(d)** 19 : 22

---

29). A boy eats 50 mangoes in 5 days. Each day, he eats 3 mangoes more than the previous day. How many mangoes does he eat on 3rd day?

(a) 15 **(b)** 20 **(c)** 25 **(d)** 10

---

30). Find the value of $\frac{\sqrt{45} - \sqrt{54}}{\sqrt{20} - \sqrt{24}}$.

(a) $1\frac{1}{3}$ **(b)** $1\frac{1}{2}$ **(c)** 1 **(d)** $1\frac{1}{4}$

---

31). The sum of length, breadth and height of a cuboid is 20 cm. If the length of the diagonal is 12 cm, then find the total surface area of cuboid.

(a) 364 cm^2 **(b)** 264 cm^2 **(c)** 356 cm^2

(d) 256 cm^2

---

32). If A's income is 60% less than B's income, then B's income is what percentage more than that of A's income?

(a) 80% **(b)** 120% **(c)** 150% **(d)** 40%

---

33). In ∆ABC, D and E are points on the sides AB and AC, respectively, such that DE||BC . If AD = 5 cm, DB = 9 cm, AE = 4 cm and BC = 15.4 cm, then the sum of the lengths of DE and EC (in cm) is:

(a) 11.6 **(b)** 10.8 **(c)** 13.4 **(d)** 12.7

---

34). A and B solutions of acid and water. The ratios of water and acid in A and B are 4 : 5 and 1 : 2, respectively. If x litres of A is mixed with y litres, of B, then the ratio of water and acid in the mixture becomes 8 : 13. What is x : y?

(a) 5 : 6   **(b)** 2 : 5   **(c)** 3 : 4   **(d)** 2 : 3

---

35). In a rectangle, length and breadth are in the ratio of 5 : 2. If the perimeter of the rectangle is 126 cm, find the length of the rectangle.

(a) 18 cm   **(b)** 81 cm   **(c)** 35 cm   **(d)** 45 cm

General Intelligence & reasoning

1). In the following question, some statements followed by some conclusions are given. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusions logically follows the given statements.

Statement:
Comic books contain pictures.
Conclusions:
I. All book contain pictures.
II. Books may or may not contain pictures.
III. Books other than the comic books do not contain pictures.

(a) Only Conclusion I follow.

(b) Only Conclusion II follows.

(c) Both Conclusion I and II follow.

(d) Neither conclusions follows.

---

2). Which answer figure will complete the pattern in the question figure?
Question figure
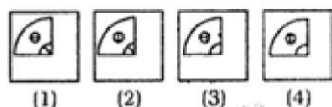
(a) Figure (1)   **(b)** Figure (2)   **(c)** Figure (3)

(d) Figure (4)

---

3). Which answer figure will complete the pattern in the question figure?
Questions figures :
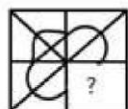
Answer figures :
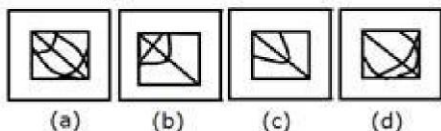
(a) Figure (a)   **(b)** Figure (b)   **(c)** Figure (c)

(d) Figure (d)

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4). Direction: In the following question, a statement is given followed by two courses of action. Assuming everything given in the statement is true, decide which of the option logically worth pursuing.

Statement:
During a flight, the pilot found that one of the engines of the airplane is not working.
Courses of action:
I. The pilot should try to land in the nearest airport as soon as possible and follow the instruction from air traffic control.
II. Crashland immediately and do not wait for any instructions as it will waste time.

(a) Only I follows   **(b)** Only II follows

(c) Both I and II follows   **(d)** Neither I nor II follows

---

5). Golu is son of Bhola. Sheetal is daughter of Golu. Chitra is daughter of Dilip and Dilip is brother of Bhola. How is Chitra related to Sheetal?

(a) Sister   **(b)** Mother   **(c)** Aunt   **(d)** Mother in law

---

6). Kavya's birthday is on Tuesday 4th July. On what day of the week will be Anika's Birthday in the same year, if Anika was born on 15th August?

(a) Wednesday   **(b)** Friday   **(c)** Saturday

(d) Tuesday

---

7). In how many ways the letters of the word 'MOBILE' be arranged, so that, the vowel and consonants occupy alternate positions?

(a) 56   **(b)** 20   **(c)** 90   **(d)** 72

---

8). In the question below, two statements are given, followed by two conclusions. You have to consider the given statements as true, even if they are at variance from commonly known facts. From the given options, choose the one that provides the correct combination of conclusions that follow/ can be derived from the given statements.

Statement A: A green leaf doesn't resist turning red when autumn approaches.
Statement B: Likewise, humans must also not fight the law of the Universe.
Conclusions:
I. Leaves turning red in autumn is the law of the Universe.
II. Humans are not that different from leaves.

(a) Neither I nor II   **(b)** Only II   **(c)** Both I and II

(d) Only I

(a) 1 **(b)** 5 **(c)** 3 **(d)** 4

---

9). What will be the last step of the given input?

(a) dhcz 73 luxr 129 bteg 23 cwhs 37 sfyw 193

(b) bteg 23 cwhs 37 dhcz 73 luxr 129 sfyw 193

(c) luxr 129 sfyw 193 bvgr 18 36 11 cgby asdf

(d) cwhs 37 dhcz 73 luxr 129 sfyw 193 11 asdf

---

10). Statement:
It is found that the computer of one of the top officials in the prime minister's office is hacked. Which of the following substantiates the given statement?
I. The government may stop providing computers to top officials.
II. The government may order an immediate change of security features on all computers used by top officials.
III. The official concerned may be arrested.

(a) Only (I) **(b)** Only (II) and (I) **(c)** Only (III)

(d) Only (II)

---

7 people P, Q, R, S, T, V, and W give a test starting from Monday to Sunday. 4 people give the test between R and S. P gives the test on Wednesday. No person gives the test between P and Q. There are 3 people who give the test between T and V. T gives the test before V. W does not give the test on Sunday. At least 2 people give the test before S.

11). Which of the following statement is false?

(a) Q gives the test on Thursday.

(b) P gives the test before S.

(c) Three people give the test between W and R.

(d) V gives the test after S.

---

12). Who gives the test on Sunday?

(a) P **(b)** R **(c)** S **(d)** Q

---

13). How many people attempt the test after R?

14). A+B means A is the sister of B. A÷B means A is the brother of B. A×B means A is the father of B. A ±B means A is the mother of B. Which of the following expression represents P is sister of Q?

(a) P ±R÷Q **(b)** P×R÷Q **(c)** P+R ±Q **(d)** P+R÷Q

---

15). Fill up the missing letter and number.

A1	C2	E3
G4	I5	?
M5	O7	Q12

(a) K8 **(b)** J15 **(c)** K9 **(d)** L10

---

16). A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
15, 35, 63, ?, 143, 195

(a) 99 **(b)** 77 **(c)** 85 **(d)** 98

---

17). Which letter will replace the question mark (?) in the following series?
G, I, F, K, ? , O, B

**(a)** D **(b)** N **(c)** T **(d)** L

---

18). Point B is in the east of Point C at 30m. Point C is in the north of Point D at 25m. Point D is in the west of Point E at 50m. Find the shortest approximate distance between C and E, and also find the direction of E with respect to B.

(a) 56m, south-east **(b)** 60m, south-east

(c) 65m, south-west **(d)** 70m, south-west

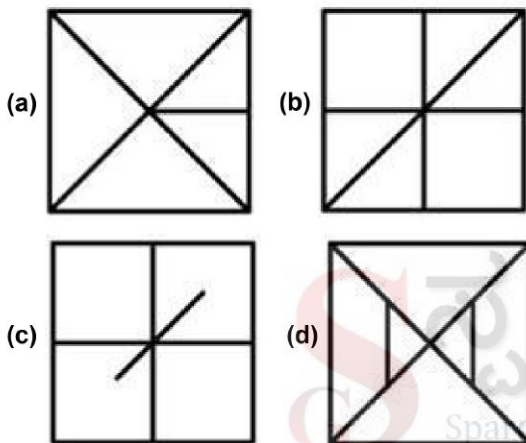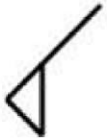**19).** In a certain code language, LARVAE is coded as 15-1-9-5-1-2. How will INSECT be coded as in that language?

(a) 3-13-8-2-24-7 **(b)** 18-13-8-2-24-7

(c) 3-13-8-22-24-7 **(d)** 9-13-8-22-24-7

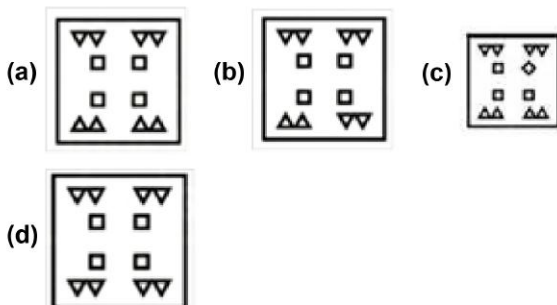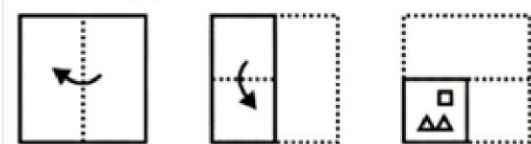**20).** In the following question, select the missing number from the given alternatives.
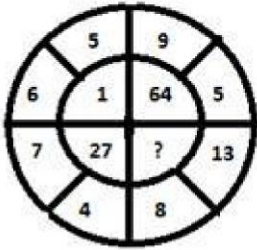
(a) 216   (b) 125   (c) 36   (d) 343

---

21). Select the option in which the given figure is embedded. (Rotation is not allowed)

(a)   (b)

(c)   (d)

---

22). A paper is folded and cut as shown below. How will it appear when unfolded?

(a)   (b)   (c)

(d)

---

23). Five phones, H, M, R, T and V are kept one above the other not necessarily in the same order. The number of phones above T is the same as the number of phones below V. R is just above H. V is at the bottom. There are two phones between M and V. Which of the following phones are above R?

(a) M and T   (b) R and I   (c) M and V

(d) M and H

---

24). Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
I. All markers are pens.
II. No pen is pencil.
III. Some pens are sharpeners.

Conclusions:
I. Some pens are markers.
II. No marker is pencil.
III. No marker is sharpener.

(a) Conclusions I and II follow

(b) Conclusions II and III follow.

(c) Either conclusion I or II follow.

(d) Conclusions I and III follow

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25). Select the option in which the given figure is embedded. (Rotation is not allowed)

(a)   (b)

(c)   (d)

---
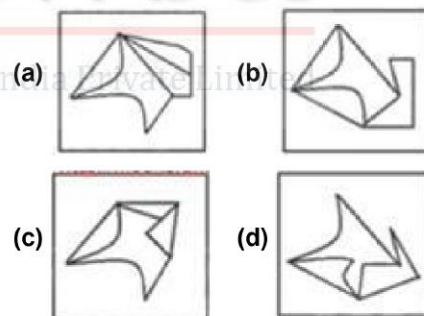
26). Choose the option that most closely resembles the mirror image of the given Figure when mirror is placed at right side.

(a)   (b)

(c)   (d)
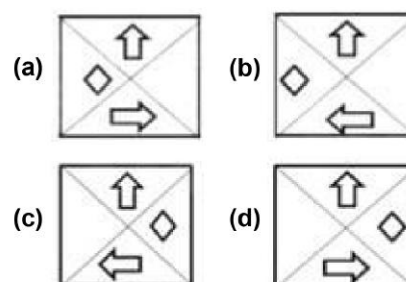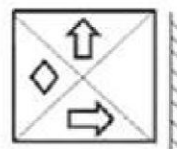
27). In the following question, select the related word from the given alternatives.
Ink : Pen :: Blood : ?

(a) Donation   **(b)** Vein   **(c)** Accident   **(d)** Doctor

---

28). Select the option that is related to the third term in the same way as the second term is related to the first term.
House : Kitchen :: Plant : ?

(a) Roots   **(b)** Leaves   **(c)** Flower   **(d)** Stigma

---

29). In the following question, one statement is followed by two Assumptions I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You have to decide which of the given assumption(s), if any, follow(s) from the given statement.

Statement: "If you work hard, you will pass the examination".
Assumptions:

I. You will not pass the examination.

II. To pass, you must work hard.

(a) If only assumption I is implicit.
(b) If only assumption II is implicit.
(c) If neither I nor II is implicit.
(d) If both I and II are implicit.

---

30). Select the number that can replace the question mark (?) in the following series.

13, 17, 16, 14, 19, 11, 22, ?

(a) 9   **(b)** 8   **(c)** 7   **(d)** 10

---

31). In a certain code language, 'SAT' is written as '42' and 'PES' is written as '42' What is the code for 'AZC' in that code language?

(a) 32   **(b)** 34   **(c)** 42   **(d)** 44

---

32). A question and two statements labeled (I), (II) are given. You have to decide which statement(S) us/are sufficient to answer the question.

What is Guna's age?

I. Guna, Vinay and Keshav are all of the same age.

II. Sum of ages of Vinay, Keshav and Arjun is 32; also Arjun is as old as Vinay and Keshav together.

(a) Statement II alone is sufficient.

(b) Both the statements together are needed

(c) Either I or II alone are sufficient.

(d) Statement I alone is sufficient.

---

33). In the following question, one statement is followed by two Assumptions I and II. You have to consider the statement to be true, even if they seems to be at variance from commonly known facts. You have to decide which of the given assumption(s), if any, follow(s) from the given statement.

Statement: "Peace and justice are the two side of the same coin.

Assumptions:

I. Peace and justice cannot coexist.

II. Peace and justice thrive together.

(a) If only assumption I is implicit.
(b) If only assumption II is implicit.
(c) If neither I nor II is implicit.
(d) If both I and II are implicit.

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34). In a certain code language 'PSYCHOANALYSE' is written as '! @ #$%^&*& <# @ >'. How will 'CANALS' be written in that code?

(a) $&*&< @   **(b)** #%*%< @   **(c)** $&*&# @
(d) @ #^&^%

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35). Manish after walking 15 km towards east turns 135 degree in the clockwise direction and walks 17 km. How far is he from his starting position?

(a) 12 km   **(b)** 8 km   **(c)** 10 km   **(d)** 9 km