

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

RRB ALP

TEST SERIES

DATE- __/__/__

DAY- _____

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set 09

QUESTION- 75

MARKS- 75

NEGATIVE MARK- 1/3

DURATION- 60 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 75 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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Spardhaguru India Private Limited

Website:- www.spardha.guru

Email ID:- info@spardha.guru

ADDRESS:- No 8, 24th Block Manasi Nagar Beside of Bliss serviced Apartment, Mysuru, Karnataka 570029

HELPLINE 90711 54445, 90711 64446, 90711 74447

Total: 75 Que.

RRB ALP CBT I Set 09

Time: 60 Min.

RRB ALP CBT I

- 1). Two inlet pipes, one 4.5 times as efficient as the other, alongside an outlet pipe that can drain a filled cistern empty in 9 hours, can fill the empty cistern in 7.5 hours when working together. How many hours will the less efficient inlet pipe alone take to fill the empty cistern?

(a) 18 (b) 27 (c) 22.5 (d) 13.5

- 2). If southeast becomes north and northeast becomes west & so on then what does north west become :

(a) Northwest (b) North (c) South
(d) Southwest

- 3). A group of cells similar in original and structure and specialized to perform a particular function (e.g., muscle cells in our body forms the muscles that brings about body movements) is called:

(a) Muscle (b) Tissue (c) Phloem
(d) Fibres (bast)

- 4). The cavity of graafian follicle is called.

(a) antrum (b) amniotic cavity
(c) liquor folliculi (d) discus proligerous

- 5). Choose the INCORRECT one for Aldehydes.

(a) $C_2H_3COH \rightarrow$ Propanal \rightarrow Propaldehyde
(b) $CH_3COH \rightarrow$ Ethanol \rightarrow Acetaldehyde
(c) $CHCOH \rightarrow$ methanol \rightarrow formaldehyde
(d) $C_3H_7COH \rightarrow$ Butanal \rightarrow Butaldehyde

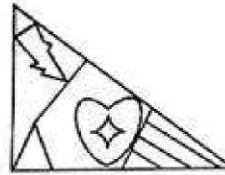
- 6). Which of the following nonmetals catches fire if it is exposed to air?

(a) Sulphur (b) Uranium (c) Nitrogen
(d) Phosphorus

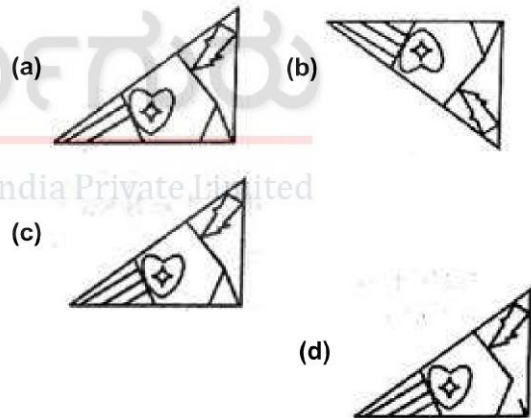
- 7). Chabahar port which is being constructed by India, is located in which country?

(a) Iran (b) Iraq (c) Bangladesh
(d) Thailand

- 8).



The mirror image of the above figure is:



- 9). Oxidation state of an atom represents:

(a) its vacancies (b) apparent charge in compound
(c) number of electrons lost
(d) number of electrons gained

- 10). Magnitude of displacement from initial position to final position is the:

(a) curved lines (b) Straight line
(c) total distance (d) Circle

- 11). ____ is present in the lining of kidney tubules.

(a) Columnar Epithelium (b) Parenchyma
(c) Cuboidal Epithelium
(d) Squamous Epithelium

12). In a _____ circuit, the electricity has only one path to flow through.

- (a) series (b) parallel (c) complete
(d) incomplete

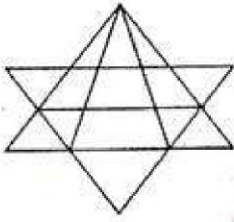
13). Saffron is a product of _____

- (a) West Bengal (b) Goa
(c) Jammu and Kashmir (d) Arunachal Pradesh

14). 22nd of August 2019 will be a Thursday. In which of the years given below will 22nd of August also be a Thursday?

- (a) 2023 (b) 2025 (c) 2022 (d) 2024

15). 28. Find the number of triangles in the given figure



- (a) 35 (b) 18 (c) 31 (d) 29

16). How many factors does the number 4000 have?

- (a) 25 (b) 24 (c) 27 (d) 26

17). A sum of money was divided between Ethane and Jane in the ratio 4:7. If Jane gavel Rs.1 to Ethane, the ratio would have changed to 7: 12 what is the sum of money in question?

- (a) Rs 209 (b) Rs 190 (c) Rs 198
(d) Rs 220

18). _____ is not essential for photosynthesis.

- (a) O₂ (b) Sunlight (c) Chlorophyll
(d) CO₂

19). A spherical mirror, whose reflecting surface is curved out wards, is called a;

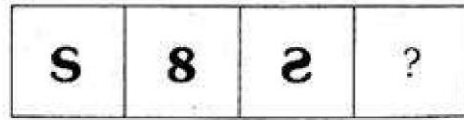
- (a) Simple mirror (b) Convex mirror
(c) Concave mirror (d) Plain mirror

20). Which of the following statements is true for the law of conservation of energy?

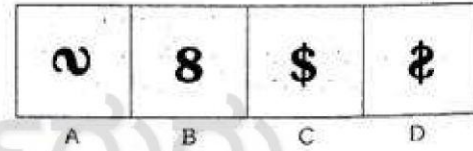
- (a) Energy can only be created
(b) Energy can only be destroyed
(c) Energy is created as well as destroyed
(d) Energy is neither created nor destroyed

21). Find the next figure in the given series

Question figures:



Answer figures:



- (a) A (b) D (c) C (d) B

22). If 2.35 kg tomatoes cost Rs34.55, then what is the cost of 4.15 kg of tomatoes? (rounded off to two decimal places).

- (a) Rs.61.01 (b) Rs.141.84 (c) Rs.43.24
(d) Rs.19.15

23). Find the odd figure among the given options.

- (a) cos 0° (b) sec 30° (c) tan 45°
(d) sin 90°

24). What happens to an acid or a base in a water solution?

- (a) Acids give OH⁻ in water
(b) Bases give H⁺ in water
(c) Bases give H₃O⁺ in water
(d) Bases give OH⁻ in water

25). The Marathas lost power to Ahmad Shah Abdali in _____

- (a) 1782 (b) 1761 (c) 1763 (d) 1764

26). Find the next term in this series

203, 6G7, 10K11, _____?

- (a) 13N14 (b) 14O15 (c) 13N15 (d) 13O14

27). Complete the series by choosing the correct term from options.

Z1, Y2, X3, ?,

- (a) W4, V6 (b) V5, W4 (c) V5, W6 (d) W4, V5

28). Crude oil is:

- (a) colourless (b) odourless
(c) Smelly, yellow to black liquid
(d) Odourless, yellow to black liquid

29). Which railway became the 1st Rail Zone with 100% LED Lighting at Stations?

- (a) Central Railway (b) South Eastern Railway
(c) Western Railway (d) South Central Railway

30). A road 3.5 m wide surround a circular park whose circumference is 176 m. Find the cost of paving the road at the rate of 60 per square meter

- (a) Rs.39,290 (b) Rs.39,250 (c) Rs.39.370
(d) Rs.39,270

31). Recently, Sonai Rupai Wildlife Sanctuary has been in the news. In which state is it located?

- (a) Odisha (b) Assam (c) Meghalaya
(d) Mizoram

32). Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements. Statements:

All vans are bats.

All cows are bats.

Conclusions:

I. All vans are cows.

II. Some cows are vans.

(a) Both conclusions I and II follow

(b) Only conclusion II follow

(c) Neither conclusion I nor II follows

(d) Only conclusion I follows

33). If 375 marbles are shared between Vihan and Rihana in the ratio 7:8, Rihana will get marbles.

- (a) 250 (b) 225 (c) 125 (d) 200

34). Which one of the following is NOT a nobel gas?

- (a) Chlorine (b) Radon (c) Krypton
(d) Helium

35). What is the square root of 41616?

- (a) 196 (b) 194 (c) 204 (d) 214

36). If INDIAN is coded a NADINI, in the same way as EXPERT can be coded as _____?

- (a) TREPXE (b) RTPEXE (c) TRPEXE
(d) TREPEX

37). The postulate that all atoms of an element are exactly alike was proved wrong with the discovery of _____

- (a) allotropy (b) isotopes (c) radioactivity
(d) isobars

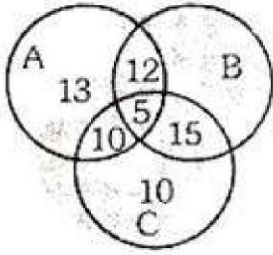
38). If $\log \frac{a}{b} + \log \frac{b}{a} = \log (a + b)$ then which of the following will hold true?

- (a) $a - b = 1$ (b) $a = b$ (c) $a^2 - b^2 = 1$
(d) $a + b = 1$

39). The value of $7 + 3 \times \{15 \square (12 - 9) \times 5\}$ is:

- (a) 10 (b) 15 (c) 54 (d) 82

40). The given Venn diagram represents the sports preferences of a group of 77 college students. There are three games: A - Badminton, B - Basketball and C - Tennis. How many students like to play Basket ball but not Tennis?



- (a) 17 (b) 24 (c) 35 (d) 15

41). A car is moving with a velocity of 72 km/h. It takes 4's to stop it after the brakes are applied. If the mass of the car is 1000 kg, the magnitude of the force exerted by the brakes is:

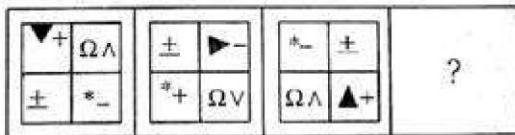
- (a) $4.0 \times 10^3 \text{N}$ (b) $3.0 \times 10^2 \text{N}$ (c) $2.0 \times 10^2 \text{N}$
(d) $5.0 \times 10^3 \text{N}$

42). Which of the following is a use of ultrasonography?

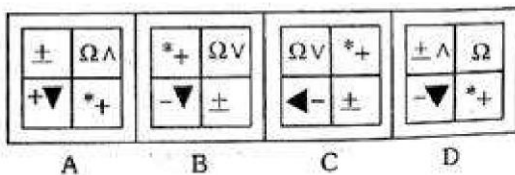
- (a) It is used to read X-rays
(b) It is used to observe the advantages of medicines.
(c) It is used to dissect organs
(d) It is used to monitor the growth of a fetus inside the mother's womb

43). Which of the option figure follows next in the series of questions figures?

Question figures:



Answer figures:



- (a) A (b) B (c) D (d) C

44). Select the option that is related to the third term in the same way as the second term is related to the first term.

Chemistry : Atoms :: Biology : _____?

- (a) Molecules (b) Neurons (c) Biometrics
(d) Cells

45). Work has _____

- (a) no direction and only magnitude
(b) no direction and no magnitude
(c) both direction and magnitude
(d) only direction and no magnitude

46). Divide 36 into two parts, such that 5 times of the first part is more than 8 times of the second part by 24?

- (a) 26, 10 (b) 20, 16 (c) 22, 14 (d) 24, 12

47). Complete the series:

AZB, CYD, EXF, GWH, IVJ, _____?

- (a) KUM (b) KUL (c) KTL (d) KWL

48). Choose the correct water image of the following figure.

RAJ589D8

- (a) KVA1280D8

- (b) KVA1280D8 (c) KVA1280D8

- (d) KVA1280D8

49). When crystals are heated water of crystallisation is lost and the substance turns a/an _____ form.

- (a) anhydrous (b) vapour (c) crystalline
(d) gaseous

50). Which of the following is a direct tax?

- (a) Customs duty (b) Excise duty (c) Income tax
(d) Sales tax

51). 15th of August, 2019 will be a Thursday. In which of the year given below will 15th of August also be a Thursday?

- (a) 2023 (b) 2025 (c) 2024 (d) 2022

52). _____ carries sperms out of the testes.

- (a) Vas deferens (b) Oviduct (c) Ureters
(d) Urethra

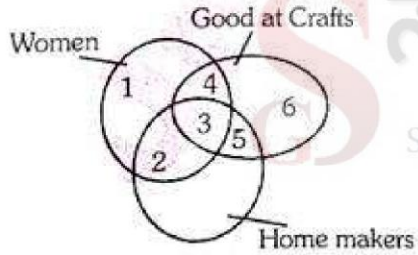
53). What is the counting unit for a chemist?

- (a) Mole (b) Molecule (c) Anode (d) Anion

54). A rectangular lawn is 60 meters long and 40 meters wide. The time taken by a man to walk along its diagonal at the speed of 3km/hrs is approximately:

- (a) 92.5 sec (b) 81.5 sec (c) 84.5 sec
(d) 86.5 sec

55). The following Venn diagram shows women, home makers and those who are good at crafts. Find the total number of women who are good at crafts and who are not home makers.



- (a) 2 (b) 1 (c) 6 (d) 4

56). What happens to the force between two objects if the masses of both the objects are tripled?

- (a) Force will get two time
(b) Force will get same time
(c) Force will get nine times
(d) Force will get three time

57). Ellora temples were built by the _____

- (a) Cheras (b) Pandiyas (c) Cholas
(d) Rashtrakutas

58). Which is the highest decoration of valor award for the most conspicuous act of bravery of self sacrifice in the presence of the enemy, whether on land, at sea or in the air?

- (a) Param Veer Chakra (b) Bharat Ratna
(c) Dhyanchnad Award (d) Padma Shri

59). The value of $21 + \{36 \div (5 + 4)\} + 7(-4)$ is

- (a) -3 (b) -19 (c) -21.7 (d) -3.4

60). Read the given statement (s) and conclusions carefully and select which of the conclusions logically follow (s) from the statement (s).

Statements:

No tiger is a lions.

Some cats are lions.

All tigers are trees.

Conclusions:

I. Some trees are lions.

II. No lion is a tree.

III. Some cats are tigers.

- (a) Only II follow (b) Only I follows
(c) Either I or II follows (d) Both I and II follow.

61). If in certain code, FORGET is written as DQPICV, then in the same code, SACHIN will be written as:

- (a) QCAJGP (b) QAJCGP (c) QCJAGP
(d) QACJGP

62). Consider the following statement and decide which of the conclusions follow from the statement.

Statement:

Rinky says to Renu, "Your mobile has all the latest features.

Conclusions:

I. Rinky is tech savvy

II. Rinky likes Renu's mobile

- (a) Conclusion II alone follows
(b) Both the conclusion follow
(c) Neither conclusion I nor II follows
(d) Conclusion I alone follows

- 63). You are given a question and two statements. Identify which of the statement is/are necessary/sufficient to answer the question.

Question:

There are 3 ply boards of different sizes. Which ply has maximum area?

Statements:

I. Ply 1 is a square of width 15 cm

II. 1 rectangular board with breadth 12 cm and length of 20 cm.

- (a) Statement II alone is sufficient
(b) Statement I alone is sufficient
(c) The statements are not sufficient
(d) Statement I and II together are sufficient

- 64). All forces have:

- (a) Both Magnitude and Direction (b) Density
(c) Direction (d) Magnitude

- 65). Which of the statement is sufficient to answer the question?

Question:

Find the value of q

Statements:

I. $x^2 + qx + 1 = 0$

II. The equation has solution as 1, 1

- (a) Either statement I or II is sufficient
(b) Only statement II is sufficient
(c) Both statements I and II together are sufficient
(d) Only statement I is sufficient

- 66). The value of $\sqrt{214 + \sqrt{107 + \sqrt{196}}}$ is

- (a) 23 (b) 15 (c) 24 (d) 18

- 67). Which of these is not homo atomic molecules?

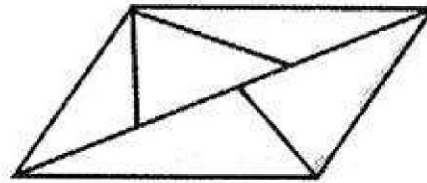
- (a) H_2 (b) N_2 (c) P_4 (d) CO_2

- 68). Two pipes, A and B can fill a tank in 3 and 4 hours, respectively. Another pipe, C, can empty the filled tank in 6 hours. If A and B are opened

at 8 AM and run for 1.5 hours and then C is opened as well. Calculate the time when the tank will be fully filled:

- (a) 9:48 AM (b) 9:20 AM (c) 9:18 AM
(d) 8:30 AM

- 69). How many triangles are there in the following figure?



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

- 70). In a code, SUNDAY is coded as HFMWZB, then how would FRIDAY be coded?

- (a) UBIZWU (b) UIRWZB (c) IRWBU
(d) UIZBRW

- 71). An object of mass 3 m is raised to a height h above ground level. Find the potential energy of the object.

- (a) 6 mgh (b) 9 mgh (c) 3 mgh (d) $1/3$ mgh

- 72). Name the Indian state that is pioneering in driving a state led business incubator for women entrepreneurs

- (a) Telangana (b) Odisha (c) Maharashtra
(d) Rajasthan

- 73). A statement is followed by two arguments. Decide which of the arguments is/are strong with respect to the statement

Statement:

For people with deep rooted ideologies, change is difficult to accept and adopt.

Arguments:

I. There cannot be any change in the current social structure

II. As the society moves ahead in its overall beliefs. We are expected to change and

adopt newer ways of life style and social changes.

- (a) Only II is strong (b) Neither I nor II is strong
(c) Both I and II are strong (d) Only I is strong

74). Which Indian bank has tied up with Bajaj Electricals for vendor financing using blockchain solutions?

- (a) Yes Bank (b) Dena Bank (c) HDFC Bank
(d) ICICI Bank

75). Read the given statement(s) and conclusions carefully and select which of the conclusions

logically follows(s) from the statement(s).

Statement : Ram, despite his busy schedule, attended his friend's wedding, Relationships are to be maintained.

Conclusions:

- I. Ram maintains good relationships.
II. Ram engages himself all the time.

- (a) Neither I nor II follows
(b) Only conclusion I follows
(c) Only conclusion II follow
(d) Both I and II follow