



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

AFCAT 2 2023 Memory Based Paper (25-Aug-2023)

Total Time: 2 Hour

Total Marks: 300

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks
1	Full Test	100	300

- 1.) A total of 120 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

Your Personal Exams Guide

Full Test

1. Select the most appropriate synonym of the given word

(+3, -1)

Berate

- a. Supervise
- b. Reproach
- c. Indulge
- d. Train

2. Choose the correct synonym (word with similar meaning) of the head word from the four options given and mark the right option in the OMR sheet:

(+3, -1)

Melancholy

- a. Sadness
- b. Intimidate
- c. Slavish
- d. Wit

3. Select the most appropriate ANTONYM of the given word.

(+3, -1)

Pensive

- a. Frivolous
- b. Unreflective
- c. Hollow

d. Goofy

4. Direction: Out of the four alternatives, choose the one which best expresses the opposite meaning of the given word. (+3, -1)

Mitigate

- a. Appease
 - b. Enhance
 - c. Allay
 - d. Reduce
-

5. Select the option that can be used as a one-word substitute for the given group of words. (+3, -1)

The nest of a squirrel, typically in the form of a mass of twigs in a tree

- a. Drey
 - b. Hole
 - c. Lair
 - d. Burrow
-

6. Choose from the four options, the word that best defines/substitutes the given phrase. (+3, -1)

"One who does not believe in God"

- a. Devotee

- b. Theist
 - c. Atheist
 - d. Anarchist
-

7. Select the most appropriate meaning of the given idiom. (+3, -1)

Cold turkey

- a. To develop cold feet to do something
 - b. To suddenly stop a bad habit or addiction
 - c. To cook and cool turkey for a meal
 - d. To have an intense dislike of birds
-

8. In the following question, out of the four given options, select the one which best expresses the meaning of the idiom/phrase. (+3, -1)

Play it by ear.

- a. To focus on one thing.
 - b. Last try before giving up.
 - c. Act without preparation.
 - d. A fleeting moment.
-

9. Select the most appropriate synonym of the given word. (+3, -1)

GRACEFUL

- a. Natural
 - b. Decorated
 - c. Elegant
 - d. Artificial
-

10. Select the most appropriate meaning of the given idiom

(+3, -1)

Ring a bell

- a. to worship
 - b. to play with a bell
 - c. to dance in a party
 - d. to evoke a memory
-

11. Mark the part of the given sentence on your answer-sheet, in which there is an error (of adjective, adverb, clause).

(+3, -1)

This road is the most shortest of all.

- a. This road is
 - b. the most shortest
 - c. of all
 - d. No error
-

12. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. (+3, -1)

I earn / little money / than my / younger brother./

- a. little money
- b. than my
- c. I earn
- d. younger brother

13. In the given question, one part of the sentence may have an error. Find out which part of the sentence has an error and click the option corresponding to it. If the sentence is free from error, click the 'No error' option. (+3, -1)

The number of obese (A)/ people is really (B) high in United States.(C)/ No error (D)

- a. A
- b. B
- c. C
- d. D

14. Directions: In the sentence identify the segment which contains the grammatical error. (+3, -1)

The manager was referring about the previous instances of loss to the employees during his address.

- a. The manager was referring about

- b. the previous instances
 - c. during his address
 - d. of loss to the employees
-

15. The following question consists of a paragraph that is split into four parts. All four parts are jumbled up and are named A, B, C and D. These four parts are given in their proper order. Arrange the jumbled sentences and find out which of the four combinations from the given options will correctly complete the paragraph. (+3, -1)

Mr Kalpesh Mishra and Dr Nath were spending a weekend in a University Town. _____ It was clear that something very unusual happened.

- A. One evening, they received a visit of from an acquaintance Mr, Piyush Sharma.
- B. Mr. Piyush Sharma was a tall, thin man of a nervous and excitable nature.
- C. On that occasion he was in a state of great agitation.
- D. They were staying in furnished rooms, close to the staircase.

- a. CBAD
 - b. DABC
 - c. ABCD
 - d. BACD
-

16. Direction: The question below consists of a sentence, the parts of which have been jumbled. These parts have labelled P, Q, R, and S. You are required to re-arrange the jumbled parts of the sentence and mark your response accordingly. (+3, -1)

Through their work and research_____ any out-of-the-box skills.

P: over the next ten years

Q: Chetana Charitable Trust understood

R: and were not acquiring

S: that children were not getting proper guidance

a. P Q R S

b. P S Q R

c. P Q S R

d. Q S P R

-
17. Direction: The following question, consists of an incomplete sentence or a sentence which is split into four parts. All four parts are jumbled up and are named as P, Q, R and S. These four parts are not given in their proper order. Arrange the jumbled parts of the sentence and find out which of the four combinations from the given options will correctly complete the sentence. (+3, -1)

For some people patriotism _____ as much as to any one country.

P : today man belongs to the whole world

Q : should be condemned because

R : type of patriotism is an evil and it

S : means hatred for other countries, but this

a. SRQP

b. PQSR

c. RSPQ

d. QPSR

18. Fill up the blank with the correct option to complete the sentence: (+3, -1)

They will not go to Japan this year for a vacation, _____?

a. didn't they

b. wont they

c. dont they

d. will they

19. Choose the appropriate option to complete the given sentence: (+3, -1)

_____ his parent's disapproval, he joined this university.

a. While

b. Despite

c. None the less

d. Until

20. Choose the phrasal verb that best fits the blank in the given sentence: (+3, -1)

The Royale Gardens is a pleasant place to _____.

a. walk away

b. walk out

c. walk around

d. walk off

21. Fill in the blank with the appropriate modal in the given sentence: (+3, -1)

The battery of your phone is dead? No problem. You _____ use my phone.

a. should

b. will

c. must

d. can

22. Choose the phrasal verb that best fits the blank in the given sentence: (+3, -1)

The sun _____ on the weary travellers, forcing them to seek the shade of a tree.

a. beat against

b. beat up

c. beat down

d. beat back

23. The Tabla, a pair of twin hand drums, is a prominent percussion instrument (+3, -1)

in Hindustani classical music. It falls under the category of ___(1)___, instruments that produce sound through vibrating membranes. The smaller drum, known as the 'dayan' or 'dahina', is typically made from teak or rosewood and produces higher-pitched sounds. The larger drum, the 'bayan' or 'bhayan', is usually made of metal, often copper or brass, and

produces ___(2)___, resonant tones. Both drums have heads made of stretched animal skin, usually goat or buffalo, which are ___(3)___ with straps and wedges. The unique sound of the Tabla is created by the interplay of different strokes and pressures applied by the fingers and palm, allowing for a wide range of timbres and rhythmic patterns. Mastering the Tabla requires years of dedicated practice and a deep understanding of its complex ___(4)___. Renowned for its versatility, the Tabla is not only used in classical music but also in folk, devotional, and contemporary genres, making it an ___(5)___ part of India's musical heritage.

Which of these should be filled at (1) as per the context of the passage?

- a. Organology
- b. colophone
- c. idiophones
- d. doggone

24. The Tabla, a pair of twin hand drums, is a prominent percussion instrument in Hindustani classical music. It falls under the category of ___(1)___, instruments that produce sound through vibrating membranes. The smaller drum, known as the 'dayan' or 'dahina', is typically made from teak or rosewood and produces higher-pitched sounds. The larger drum, the 'bayan' or 'bhayan', is usually made of metal, often copper or brass, and produces ___(2)___, resonant tones. Both drums have heads made of stretched animal skin, usually goat or buffalo, which are ___(3)___ with straps and wedges. The unique sound of the Tabla is created by the interplay of different strokes and pressures applied by the fingers and palm, allowing for a wide range of timbres and rhythmic patterns. Mastering the Tabla requires years of dedicated practice and a deep understanding of its complex ___(4)___. Renowned for its versatility, the Tabla is not only used in classical music but also in folk, devotional, and contemporary genres, making it an ___(5)___ part of India's musical heritage. (+3, -1)

Which of these should be filled at (2) as per the context of the passage?

- a. produces
- b. producing
- c. produced
- d. produce

25. The Tabla, a pair of twin hand drums, is a prominent percussion instrument in Hindustani classical music. It falls under the category of ___(1)___, instruments that produce sound through vibrating membranes. The smaller drum, known as the 'dayan' or 'dahina', is typically made from teak or rosewood and produces higher-pitched sounds. The larger drum, the 'bayan' or 'bhayan', is usually made of metal, often copper or brass, and produces ___(2)___, resonant tones. Both drums have heads made of stretched animal skin, usually goat or buffalo, which are ___(3)___ with straps and wedges. The unique sound of the Tabla is created by the interplay of different strokes and pressures applied by the fingers and palm, allowing for a wide range of timbres and rhythmic patterns. Mastering the Tabla requires years of dedicated practice and a deep understanding of its complex ___(4)___. Renowned for its versatility, the Tabla is not only used in classical music but also in folk, devotional, and contemporary genres, making it an ___(5)___ part of India's musical heritage. (+3, -1)

Which of these should be filled at (3) as per the context of the passage?

- a. therefore
- b. since
- c. hence
- d. but

26. Direction: Read the passage below and answer the questions that follow.

(+3, -1)

A papal decree of 1493 had assigned all land in the New World west of 50 degrees W longitude to Spain and all the land east of that line to Portugal. Magellan offered to prove that the East Indies fell under Spanish authority. On September 20, 1519, Magellan set sail from Spain with five ships. More than a year later, one of these ships was exploring the topography of South America in search of a water route across the continent. This ship sank, but the remaining four ships searched along the southern peninsula of South America. Finally they found the passage they sought near 50 degrees S latitude. Magellan named this passage the Strait of All Saints, but today it is known as the Strait of Magellan.

One ship deserted while in this passage and returned to Spain, so fewer sailors were privileged to gaze at that first panorama of the Pacific Ocean. Those who remained crossed the meridian now known as the International Date Line in the early spring of 1521 after 98 days on the Pacific Ocean. During those long days at sea, many of Magellan's men died of starvation and disease.

Later, Magellan became involved in an insular conflict in the Philippines and was killed in a tribal battle. Only one ship and 17 sailors under the command of the Basque navigator Elcano survived to complete the westward journey to Spain and thus prove once and for all that the world is round, with no precipice at the edge.

When did Magellan set sail from Spain?

- a. 1493
- b. 1519
- c. 1521
- d. 1523

27. Direction: Read the passage below and answer the questions that follow.

(+3, -1)

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What did Magellan ultimately prove?

- a. Magellan proved that the moon moves around the Earth.
- b. Magellan ultimately proved that the Earth was round.
- c. Magellan proved that the Earth has an edge.
- d. Magellan proved that he the Sun moves the Earth.

28. Vasco da Gama, a Portuguese explorer, was the first European to reach India by sea, opening a direct maritime trade route between Europe and Asia. His pioneering voyage in 1497–1499 was a pivotal moment in global history, circumventing the overland routes that were controlled by Arab and Venetian merchants and often fraught with danger. On July 8, 1497, da Gama departed from Lisbon with four ships: the São Gabriel, the São Rafael, the Bérrio, and a supply ship. His fleet rounded the Cape of Good Hope, a treacherous point off the southern tip of Africa, in November of that year. After months of navigating unknown waters and facing severe storms, they made several stops along the East African coast, encountering local rulers and traders. Despite hostility from some local populations and the ravages of scurvy among his crew, da Gama pressed on. By May 1498, they reached Calicut (modern-day Kozhikode) on the southwest coast of India. The local ruler, the Zamorin, initially welcomed them but trade negotiations proved difficult due to the inferior quality of Portuguese goods compared to the sophisticated Indian products. Da Gama's return journey was even more arduous, with many sailors succumbing to disease. Only two of his original four ships and less than half of his crew survived to reach Lisbon in September 1499, yet his expedition irrevocably altered the course of world trade and exploration. (+3, -1)

What did Magellan name the passage he found?

- a. Strait of Spain
 - b. Saints Strait
 - c. Strait of All Saints
 - d. Magellan Strait
-
29. Vasco da Gama, a Portuguese explorer, was the first European to reach India by sea, opening a direct maritime trade route between Europe and Asia. His pioneering voyage in 1497–1499 was a pivotal moment in global (+3, -1)

history, circumventing the overland routes that were controlled by Arab and Venetian merchants and often fraught with danger. On July 8, 1497, da Gama departed from Lisbon with four ships: the São Gabriel, the São Rafael, the Bérrio, and a supply ship. His fleet rounded the Cape of Good Hope, a treacherous point off the southern tip of Africa, in November of that year. After months of navigating unknown waters and facing severe storms, they made several stops along the East African coast, encountering local rulers and traders. Despite hostility from some local populations and the ravages of scurvy among his crew, da Gama pressed on. By May 1498, they reached Calicut (modern-day Kozhikode) on the southwest coast of India. The local ruler, the Zamorin, initially welcomed them but trade negotiations proved difficult due to the inferior quality of Portuguese goods compared to the sophisticated Indian products. Da Gama's return journey was even more arduous, with many sailors succumbing to disease. Only two of his original four ships and less than half of his crew survived to reach Lisbon in September 1499, yet his expedition irrevocably altered the course of world trade and exploration.

What magnificent sight were few sailors privileged to witness for the first time?

- a. a sunset at the ocean
- b. first panorama of the Atlantic Ocean
- c. first panorama of the Pacific Ocean.
- d. newly discovered islands

30. Direction: Read the passage below and answer the questions that follow. (+3, -1)

A papal decree of 1493 had assigned all land in the New World west of 50 degrees W longitude to Spain and all the land east of that line to Portugal. Magellan offered to prove that the East Indies fell under Spanish authority. On September 20, 1519, Magellan set sail from Spain with five ships. More

than a year later, one of these ships was exploring the topography of South America in search of a water route across the continent. This ship sank, but the remaining four ships searched along the southern peninsula of South America. Finally they found the passage they sought near 50 degrees S latitude. Magellan named this passage the Strait of All Saints, but today it is known as the Strait of Magellan.

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Later, Magellan became involved in an insular conflict in the Philippines and was killed in a tribal battle. Only one ship and 17 sailors under the command of the Basque navigator Elcano survived to complete the westward journey to Spain and thus prove once and for all that the world is round, with no precipice at the edge.

When did Magellan's crew cross the International Date Line?

- a. early spring of 1521
- b. early spring of 1522
- c. summer of 1521
- d. summer of 1522

31. Who presided over 1907 Indian National Congress Session at Surat ?

(+3, -1)

- a. Dadabai Naoroji
- b. B.G. Tilak

c. RasBehari Ghosh

d. LalaLajpat Rai

32. The Council of Ministers during the time of Shivaji Maharaj was known as: (+3, -1)

a. Agraharam

b. Navaratnas

c. Ashta Diggajas

d. Ashta Pradhan

33. Match the following (+3, -1)

List-I	List-II
A. Gulbadan Begum	1. Sakinat-ul-Auliya
B. Abul Fazl	2. Humayun Nama
C. Nizamuddin Ahmad	3. Tabaqat-i-Akbari
D. Dara Shikoh	4. Ain-i-Akbar

a. A - 1, B - 2, C - 3, D - 4

b. A - 2, B - 4, C - 3, D - 1

c. A - 3, B - 2, C - 1, D - 4

d. A - 2, B - 4, C - 1, D - 3

34. The rock which is made up of molten magma is

(+3, -1)

a. Igneous

b. Sedimentary

c. Metamorphic

d. Extrusive Igneous

35. At what temperature the density of water is maximum?

(+3, -1)

a. 273 °C

b. 4 °C

c. 0 °C

d. 100 °C

36. Which country announced the introduction of the Debbie Hockley Medal to honour the outstanding female cricketer?

(+3, -1)

a. England

b. New Zealand

c. West Indies

d. Australia

37. Consider the following statements in respect of the Olympics: (+3, -1)

1. The first modern Olympic Games were held in 1896 in Athens (Greece).
2. The games were not held during World War II considering the turmoil across the world.
3. In 1940, Japan was to be the first Asian country to host the Olympics.

Which of the above statement is/are correct?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only
- d. 1, 2, and 3

38. Women's cricket will make its debut at the Commonwealth Games to be held in which year? (+3, -1)

- a. 2022
- b. 2023
- c. 2024
- d. 2025

39. National Research Centre for Agro-forestry is located at (+3, -1)

- a. Agra
- b. Jhansi

- c. Kanpur
 - d. Lucknow
-

40. Which of the following is the folk music of Rajasthan? (+3, -1)

- a. Lotia
 - b. Pandwani
 - c. Chakri
 - d. Tappa
-

41. When is 'World Earth Day' celebrated? (+3, -1)

- a. 28 February
 - b. 22 April
 - c. 21 March
 - d. 3 April
-

42. Which Article of the Constitution deals with financial emergency? (+3, -1)

- a. Article 356
 - b. Article 358
 - c. Article 360
 - d. Article 362
-

43. Consider the following statements:

(+3, -1)

1. The term of Prime Minister is five years.
2. The constitution provides that the President has to appoint the leader of the majority party in the Lok Sabha as Prime Minister.
3. Nominated members of the Rajya sabha cannot become the Prime Minister.

Which of the statements given above is/are *incorrect*?

- a. 1 and 3 only
- b. 2 only
- c. 2 and 3 only
- d. 1, 2 and 3

44. Bolometer is used to measure _____.

(+3, -1)

- a. Air pressure
- b. Electromagnetic Radiation
- c. Height of cloud base
- d. Specific Gravity of liquids

45. Consider the following statements regarding the AI Supercomputer 'AIRAWAT' and its significance in the context of India's AI endeavors:

(+3, -1)

- I. AIRAWAT's recent ranking of 75th in the Top 500 Global Supercomputing List positions India as a leading nation in the field of AI supercomputing.
- II. The AI Research Analytics and Knowledge Dissemination Platform (AIRAWAT) is a Proof of Concept (PoC) with a peak compute capacity of 410

AI Petaflops Mixed Precision, integrated with PARAM Siddhi-AI, contributing to India's ambitious National Program on AI (NPAI).

III. MeitY has outlined plans to scale AIRAWAT to a compute capacity of 1,000

AI Petaflops Mixed Precision, aligning with Prime Minister Shri Narendra Modi's vision of leveraging technology and AI for the welfare of citizens and socio-economic growth.

Select the correct statement(s) from the options below:

- a. I and II only
- b. II and III only
- c. I and III only
- d. I, II, and III

46. Barak – 8 Missile (next generation) has been developed by India in collaboration with which of the following countries? (+3, -1)

- a. Russia
- b. U.S.A
- c. Israel
- d. France

47. "Kavach" system introduced by Indian Railways is a/an _____. (+3, -1)

- a. Insurance scheme for passengers
- b. Automatic crossing system
- c. Automatic Train Protection System

d. System to increase the speed of the trains

48. Which of the following is the capital of Bulgaria?

(+3, -1)

- a. Sofia
 - b. Minsk
 - c. Bridgetown
 - d. Zagreb
-

49. What is the country of origin of the winner of the 2023 International Booker Prize?

(+3, -1)

- a. Bulgaria
 - b. France
 - c. Sweden
 - d. Denmark
-

50. Identify the airline that is a joint venture between Tata Sons and Singapore Airlines?

(+3, -1)

- a. Vistara Airlines
 - b. Air Pegasus
 - c. Air Asia India
 - d. Turbojet Airways
-

51. Which is the highest peace time gallantry award in India? (+3, -1)

- a. Ashok Chakra
 - b. Kirti Chakra
 - c. Mahavir Chakra
 - d. Param Vir Chakra
-

52. From which country has India purchased Airborne Warning and Control System (AWACS)? (+3, -1)

- a. Israel
 - b. Russia
 - c. France
 - d. America
-

53. Which of the following pairs is not correctly matched? (+3, -1)

- a. Barak missile - ship-to-air, ship-to-surface
 - b. Nag Missile - Surface-to-surface and air-to-surface
 - c. Nirbhay Missile - Naval, Land, Air
 - d. None of the above
-

54. Match List I with the correct options of List II. (+3, -1)

List I (Name of Operation)	List II (Related to)
I. Operation Nistar	A. Rescue operation in Yemen
II. Operation Pawan	B. Control of Jaffna peninsula
III. Operation Karuna	C. To provide help to cyclone-hit Myanmar
IV. Operation Devi Shakti	D. India evacuates citizens from war-torn Afghanistan

- a. I-B, II-A, III-C, IV-D
- b. I-B, II-A, III-D, IV-C
- c. I-D, II-C, III-B, IV-A
- d. I-A, II-B, III-C, IV-D

55. High Altitude Warfare School of Indian Army is located at? (+3, -1)

- a. Gulmarg
- b. Siachen
- c. Leh
- d. Manali

56. A container contains 10 litres mixture in which there is 10% sulphuric acid. (+3, -1)
How much sulphuric acid is to be added to make the solution to contain 25% sulphuric acid?

- a. 1 liter
- b. 2 liter
- c. 3 liter
- d. 4 liter

57. The area of the circular base of the tent house is 308 m^2 , and its height is $7\sqrt{2} \text{ m}$. Then find the area (in m^2) of cloth required to cover the curved surface area of the conical tent. (+3, -1)

- a. 308
- b. $308\sqrt{2}$
- c. $304\sqrt{3}$
- d. 304

58. A man purchases two fans for Rs. 2160. By selling one fan at a profit of 15% and the other at a loss of 9% he neither gains nor losses in the whole transaction. Find the cost price of each fan. (+3, -1)

- a. Rs. 800 & Rs. 1300
- b. Rs. 910 & Rs. 1250
- c. Rs. 900 & Rs. 1200
- d. Rs. 810 & Rs. 1350

59. A sum becomes 3 times in 5 years at compound interest. In how many years the same sum will become 9 times? (+3, -1)

- a. 5
- b. 10
- c. 15
- d. 20

60. If the difference between C.I. and S.I. for 2 years at 5% per annum is equal to 25. What is the sum of money? (+3, -1)

- a. Rs. 25000
- b. Rs. 10000
- c. Rs. 12000
- d. Rs. 20000

61. $27^{(2n-1)} = (243)^3$, then the value of n is: (+3, -1)

- a. 3
- b. 5
- c. 7
- d. 9

62. Two cards are drawn at random from a pack of 52 cards. The probability that either both are black or both are queen is (+3, -1)

- a. $\frac{325}{1326}$

b. $\frac{6}{1326}$

c. $\frac{330}{1326}$

d. $\frac{5}{1326}$

63. A and B can do a piece of work in 30 days, while B and C can do the same in 24 days and C and A in 20 days. They all work together till 12th day then A and C leave. How many more days will it be required for B to finish the remaining work? (+3, -1)

a. 24 days

b. 22 days

c. 16 days

d. 20 days

64. A student scores 40% of marks and fails by 40 marks in the examination and another student scores 60% and scores 20 more marks. Find the maximum marks for the examination. (+3, -1)

a. 100

b. 200

c. 300

d. 400

65. The angle in your wrist watch at 10 hours, 22 minutes will be (+3, -1)

a. 174°

b. 175°

c. 179°

d. 181°

66. X sold something to Y for 540 rupees with a 20% loss. Y spent 170 rupees repairing it and selling Z at the rate at which X would have gained 24%. Find the profit earned by Y. (+3, -1)

a. 229.5 rupees

b. 227.5 rupees

c. 127 rupees

d. 229 rupees

67. The diameter of a pizza is 8 cm; it will cost 240 rupees, and the diameter of other pizzas is 12 cm; it will cost 360 rupees. If the size of the pizza is directly proportional to the price, then find a discount on the second pizza. (+3, -1)

a. Rs. 190

b. Rs. 182

c. Rs. 180

d. Rs. 192

68. Sudha sold an article to Renu for Rs. 576 at a loss of 20% Renu spent a sum of Rs. 224 on its transportation and sold it to Raghu at a price which would have given Sudha a profit of 24%. The percentage of gain for Renu is: (+3, -1)

a. 10.5%

b. 11.6%

c. 13.2%

d. 12.9%

69. The diagonal of a square is equal to the side of an equilateral triangle. If the area of the square is $18\sqrt{3}$ sq. cm. What is the area (in cm^2) of the equilateral triangle? (+3, -1)

a. $54\sqrt{2}$

b. $27\sqrt{2}$

c. 54

d. 27

70. If $\frac{\sqrt[3]{2197} + \sqrt[3]{2744}}{3} = x\%$ of 50 then $x = ?$ (+3, -1)

a. 20

b. 18

c. 22

d. 24

71. A person goes from home to the office at 80% of his usual speed. After a 2-hour rest, he returns with the usual speed. If he covers 2000 km of distance during the whole journey, it takes 52 hours to complete it. Find the speed at which he goes to the office. (+3, -1)

a. 10 m/s

- b. 11 m/s
 - c. 12 m/s
 - d. 13 m/s
-

72. A man bought a horse and a carriage for Rs. 30,000. He sold the horse at a profit of 20% and the carriage at a loss of 10%. Finally he gains 2% on the whole. The cost of the horse is (+3, -1)

- a. Rs. 9,000
 - b. Rs. 10,000
 - c. Rs. 12,000
 - d. Rs. 15,000
-

73. The HCF of two numbers is one-twentieth of their LCM. If one of the numbers is 96 and the difference of the LCM and the HCF is 456, then what is the other number? (+3, -1)

- a. 48
 - b. 120
 - c. 144
 - d. 72
-

74. Average age of 12 students of a school is 23 years. The average age of students and their mathematics and science teacher is 35 years. If the age of science teacher is 15 years more than the age of mathematics teacher, then what is the age of mathematics teacher? (+3, -1)

- a. 98.5 years
- b. 101.5 years
- c. 100 years
- d. 99.5 years

75. 49000 is divided among A, B and C in such a way that the share of A is the sum of B and $\frac{2}{5}$ of B's share, and the share of B is $\frac{3}{7}$ of the total share of A and C. What is the share of C? (+3, -1)

- a. Rs. 21000
- b. Rs. 20000
- c. Rs. 13720
- d. Rs. 14700

76. **Directions:** In the following question, five words have been given out of which three are alike in some manner, while the fourth one is different. Choose out the odd one. (+3, -1)

- a. Deck
- b. Quay
- c. Stern
- d. Bow

77. Select the option that is related to the third term in the same way as the second term is related to the first term. (+3, -1)

Ship : Harbour :: Aeroplane : ?

- a. Runway
 - b. Hangar
 - c. Control tower
 - d. Destination
-

78. In each of the following questions, a series is given. Find the term that will replace the question mark. (+3, -1)

22, 24, 28, ?, 52, 84

- a. 40
 - b. 36
 - c. 46
 - d. 34
-

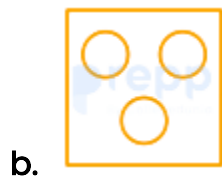
79. Select the option that is related to the third word in the same way as the second word is related to the first word. (+3, -1)

Cricket : Pitch :: Golf : ?

- a. Arena
 - b. Track
 - c. Court
 - d. Course
-

80. Identify the diagram that best represents the relationship among the given classes. (+3, -1)

Father, Uncle, Man



81. Select the Venn diagram that best illustrates the relationship between the following classes. (+3, -1)

Village people, Educated people, Intelligent people





b.



c.



d.

82. In the following question, select the odd number pair from the given alternatives.

(+3, -1)

a. 4 - 16

b. 5 - 24

c. 6 - 36

d. 7 - 49

83. Find the missing number from the below options.

(+3, -1)

6	7	169
8	3	?
10	9	361

- a. 101
- b. 111
- c. 144
- d. 121

84. Study the given pattern carefully and select the number that can replace the question mark (?) in it. (+3, -1)



- a. 11
- b. 21
- c. 23
- d. 13

85. Which number will complete the series? (+3, -1)

11, 13, 17, 19, 23, 25, _ _ _ _

- a. 25
- b. 27
- c. 29
- d. 31

86. Find the missing number from the below options.

(+3, -1)

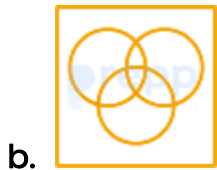
9	28	85
12	37	?
16	49	148

- a. 96
- b. 140
- c. 134
- d. 112

87. Identify the diagram that best represents the relationship among classes given below

(+3, -1)

Vegetable, Tomato, Spinach



88. Which of the following options best suit the Venn diagram given in the figure?

(+3, -1)



- a. Girls, Female, Cricket players
- b. Car, Engineer, Male
- c. Table, Furniture, Chair
- d. Animal, Birds, Tree

89. Find the odd one out:

(+3, -1)

- a. 27
 - b. 64
 - c. 81
 - d. 125
-

90. Pointing towards a person, a man said to a woman, "His mother is the only daughter of your father." How is the woman related to that person? (+3, -1)

- a. Daughter
 - b. Sister
 - c. Mother
 - d. Wife
-

91. What is the angle degree between the hands of the clock at 10 : 25 am? (+3, -1)

- a. 130
 - b. 150
 - c. 162.5
 - d. None of the above
-

92. What is the angle made by the minute and hour hand of a clock at 5.20 am ? (+3, -1)

- a. 50°

b. 60°

c. 40°

d. 20°

-
93. A number has been denoted to each of the given letters. Select the option (+3, -1)
from the following four possible arrangements of these numbers that forms
a meaningful word.

E = 1, N = 2, T = 3, S = 4, T = 5, D = 6, U = 7

a. 4,3,7,6,1,2,5

b. 2,1,4,3,6,7,5

c. 4,3,7,1,6,5,2

d. 2,1,4,6,3,5,7

-
94. In a certain code language, "LAND" is written as "LBPG" and "JEAN" is written (+3, -1)
as "JFCQ". How will "HOME" be written in that language?

a. HQNH

b. HPOH

c. HQOG

d. HPNG

-
95. Parth said pointing to a photograph of a boy, 'he is the only son of my (+3, -1)
father's brother's son, if so how is the boy related to Parth?

- a. Cousin
 - b. Father
 - c. Nephew
 - d. Son
-

96. Rearrange the jumbled-up letters in a meaningful sequence and find the odd one out. (+3, -1)

- a. TGMAINSRA
 - b. BILEMO
 - c. HTWSPAPA
 - d. BKFOCEOA
-

97. Which of the mathematical signs should be interchanged in the below equation to make it mathematically correct? (+3, -1)

$$4 \div 32 + 8 \times 9 - 5 = 35$$

- a. $\times$ and $-$
 - b. $\div$ and $+$
 - c. $\div$ and $\times$
 - d. $\times$ and $+$
-

98. P, Q, R, S and T sit around a table. P sits in the second seat to the left of R and Q sits in the second seat to the right of R. If S sits between Q and R, who is (+3, -1)

sitting to the immediate right of P?

- a. R
- b. S
- c. T
- d. Q

99. In a certain code language, if PLANE is coded as RJCLG, then how will TRAIN be coded? (+3, -1)

- a. USBKO
- b. VTCJP
- c. VPCGP
- d. VPCHP

100. If '@' denotes '×', '#' denotes '-', '\$' denotes '+' and '%' denotes '÷', then, what will come in place of the question mark (?) in the following equation? (+3, -1)

$$8 \$ 14 @ 5 \# 56 \% 7 = ?$$

- a. 60
- b. 90
- c. 80
- d. 70