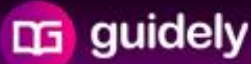


## RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 1 Exam



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#### General Awareness

1) Wular Lake is situated in\_\_\_\_\_.

- a) Chandigarh
- b) Jammu and Kashmir
- c) Sikkim
- d) Punjab

Answer: b)

Wular Lake is one of the largest fresh water lakes in Asia. It is sited in Bandipora district in Jammu and Kashmir, India.

2) International Labour Organisation is headquartered in\_\_\_\_\_?

- a) Vienna, Austria
- b) Geneva, Switzerland
- c) Paris, France
- d) Washington D.C, United States

Answer: b)

The International Labor Organization (ILO) is a United Nations agency responsible for dealing with employment-related issues across the world, including employment standards and problems of exploitation. It is headquartered in Geneva, Switzerland.

3) Who among the following started the Khilafat Movement in the year 1919?

- a) Mahatma Gandhi
- b) Maulana Mohammad Ali Jauhar
- c) Maulana Shaukat Ali
- d) Both b and c

Answer: d)

The Khilafat Movement (1919-20) was essentially a movement to express Muslim support for the Caliph of Turkey against the allied powers. This movement was started by Maulana Mohammad Ali Jauhar and his brother Maulana Shaukat Ali in India by joining hands with some other Muslim leaders.

4) Who among the following was awarded Bharat Ratna in 2019?

- a) Pranab Mukherjee
- b) Nanaji Deshmukh
- c) Bhupen Hazarika
- d) All of the above

Answer: d)

The Bharat Ratna is the highest civilian award of the Republic of India. On 25 January 2019, the government announced the award to social activist Nanaji Deshmukh (posthumously), singer-music director Bhupen Hazarika (posthumously) and to the former President of India, Pranab Mukherjee.

5) Which instrument is used for measuring Atmospheric Pressure?

- a) Barometer
- b) Bolometer
- c) Fathometer
- d) Calorimeter

Answer: a)

## RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 1 Exam

A barometer is a scientific instrument that is used to measure air pressure in a certain environment.

6) The loudness of the sound is measured in terms of \_\_\_\_\_?

- a) Metres
- b) Decibel
- c) Pitch
- d) Hertz

Answer: b)

Loudness of sound is measured in decibels (dB). This is actually a measure of intensity, which relates to how much energy the pressure wave has. Decibels are a relative measurement. They relate the intensity of a pressure wave to a normal or standard pressure.

7) Who was the successor of Chandragupta I?

- a) Samudragupta
- b) Kumargupta
- c) Budhagupta
- d) Vishnugupta

Answer: a)

Samudragupta was a ruler of the Gupta Empire of Ancient India and the successor of Chandragupta I. He was the son of Gupta emperor Chandragupta I and the Licchavi princess Kumaradevi.

8) Under which of the following Article of the Indian Constitution can the President of India be impeached?

- a) Article 65
- b) Article 61
- c) Article 63
- d) Article 69

Answer: b)

Article 61 in The Indian Constitution Procedure for impeachment of the President. When a President is to be impeached for violation of the Constitution, the charge shall be preferred by either House of Parliament.

9) Kolleru Lake is situated in which state?

- a) Maharashtra
- b) Andhra Pradesh
- c) Telangana
- d) Bihar

Answer: b)

Kolleru Lake is one of the largest freshwater lakes in India located in state of Andhra Pradesh and forms the largest shallow freshwater lake in Asia.

10) Who threw bombs at the Central Legislative Assembly at Delhi?

- a) Bhagat Singh
- b) Batukeshwar Dutt
- c) Sukhdev
- d) Both a and b

Answer: d)

On 8 April, 1929, revolutionaries Bhagat Singh and Batukeshwar Dutt threw bombs at the Central Legislative Assembly at Delhi. The incident is known as the Central Assembly Bombing Case in Modern Indian History.

11) Sanchi Stupa is built by whom?

- a) Ashoka
- b) Akbar
- c) Chandragupta Maurya
- d) Jahangir

Answer: a)

## RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 1 Exam

The Great Stupa at Sanchi is one of the earliest Buddhist monuments in India built by Emperor Ashoka. The Great Stupa is the oldest and largest Stupa at the Sanchi Buddhist Monument Complex.

12) Which one of the following Article empowers the President to grant pardon or postpone punishments?

- a) Article 72
- b) Article 75
- c) Article 76
- d) Article 78

Answer: a)

Article 72 provides that the President shall have the power to grant pardons, reprieves, respites or remissions of punishment or to suspend, remit or commute the sentence of any person convicted of any offence.

13) The Booker Prize 2019, was awarded to whom?

- a) Margaret Atwood
- b) Bernardine Evaristo
- c) Chigozie Obioma
- d) Both a and b

Answer: d)

2019 Booker Prize for Fiction was awarded to two authors, Margaret Atwood for The Testaments and Bernardine Evaristo for Girl, Woman, Other.

14) Name the current Chairman of National Human Rights Commission?

- a) H. L. Dattu
- b) T. S. Thakur
- c) K. K. Venugopal
- d) Sunil Arora

Answer: a)

Handyala Lakshminarayanadaswamy Dattu is a former Chief Justice of India, and the current chairman of the National Human Rights Commission.

15) Which one of the following is a non-volatile memory?

- a) RAM
- b) ROM
- c) SRAM
- d) DRAM

Answer: b)

RAM, which stands for random access memory, and ROM, which stands for read-only memory, are both present in your computer. RAM is volatile memory that temporarily stores the files you are working on. ROM is non-volatile memory that permanently stores instructions for your computer.

16) The acronym IDN stands for\_\_\_\_\_.

- a) Internationalized Domain Name
- b) International Domain Name
- c) Indian Domain Name
- d) Internet Domain Name

Answer: a)

The acronym IDN stands for 'Internationalized Domain Name'. The IDN system allows internet users to use the full alphabet of their language in their domain names.

17) Moatsu festival is celebrated in which state?

- a) Manipur
- b) Nagaland
- c) Assam
- d) Tripura

Answer: b)

## RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 1 Exam

Moatsu is a festival celebrated by the Ao people of Nagaland, India. It is celebrated in the first week of May every year.

18) Nanotechnology was started in which year?

- a) 1981
- b) 1988
- c) 1985
- d) 1983

Answer: a)

The American physicist and Nobel Prize laureate Richard Feynman introduced the concept of nanotechnology in 1959 and it was started in 1981.

19) What is the chemical formula of Blue vitriol?

- a)  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
- b) KOH
- c) NaOH
- d)  $\text{CaCO}_3$

Answer: a)

The blue vitriol is also known as the Cu(II) sulphate pentahydrate or crystalline copper sulphate. The chemical formula for blue vitriol is  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ .

20) Who among the following was Emperor Ashoka's mother?

- a) Mahadevi Dhruvasvamini
- b) Dattadevi
- c) Prabhavati
- d) Subhadrangi

Answer: d)

Subhadrangi was the empress consort of the Mauryan Empire and the mother of the great King Ashoka.

21) The Second Battle of Tarain was fought in which year?

- a) 1195
- b) 1192
- c) 1198
- d) 1199

Answer: b)

The Second Battle of Tarain was fought in 1192 by the Ghurids against the Chahamanas and their allies, near Tarain. The Ghurid king Mu'izz al-Din defeated the Chahamanas king Prithviraj Chauhan thus avenging his earlier defeat at the First Battle of Tarain.

22) Which instrument measures wind speed and wind pressure?

- a) Accelerometer
- b) Altimeter
- c) Ammeter
- d) Anemometer

Answer: d)

An anemometer is an instrument that measures wind speed and wind pressure. Anemometers are important tools for meteorologists, who study weather patterns.

23) Nur Jahan was the last wife of which Mughal emperor?

- a) Babur
- b) Humayun
- c) Akbar
- d) Jahangir

Answer: d)

Nur Jahan was the twentieth and last wife of the Mughal emperor Jahangir. Nur Jahan was born Mehr-un-Nissa, the daughter of a Grand Vizier who served under Akbar.

## RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 1 Exam

24) The SDG India Index is released by\_\_\_\_\_.

- a) NITI Aayog
- b) World Economic Forum
- c) Reserve Bank of India
- d) International Labour Organization

Answer: a)

The SDG India Index is intended to provide a holistic view on the social, economic and environmental status of the country and its States and UTs. It was developed by NITI Aayog.

25) Jayakwadi dam is located on which river?

- a) Godavari
- b) Krishna
- c) Narmada
- d) Kaveri

Answer: a)

Jayakwadi dam is an earthen dam located on Godavari river at the site of Jayakwadi village in Paithan taluka of Aurangabad district in Maharashtra.

26) Which country declared match fixing a crime?

- a) India
- b) Srilanka
- c) Bangladesh
- d) New-Zealand

Answer: b)

Sri Lanka has become the first South Asian nation to bring match-fixing cases to the category of crime as its parliament passed a bill related to 'Prevention of Offences Related to Sports'.

27) Mardani khel is an armed Indian martial art from\_\_\_\_\_.

- a) Punjab
- b) Maharashtra
- c) Haryana
- d) Chhattisgarh

Answer: b)

Mardani khel is an armed Indian martial art from Maharashtra. It is particularly known for its use of the uniquely Indian patta and vita.

28) Alyssa Healy who holds the world record for the most runs in a Women's T-20 International is from which country?

- a) Australia
- b) New-Zealand
- c) England
- d) West-Indies

Answer: a)

Alyssa Healy Starc is an Australian cricketer who plays for the Australian women's national team and New South Wales in domestic cricket. She holds the world record for the most runs in a Women's T-20 International.

29) Which of the following metal has antibacterial properties?

- a) Copper
- b) Magnesium
- c) Iron
- d) Silver

Answer: a)

Copper and its alloys (brasses, bronzes, cupronickel, copper-nickel-zinc, and others) are natural antimicrobial materials.

## RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 1 Exam

30) 'Vikram Samvat' was started in\_\_\_\_\_.

- a) 56 BC
- b) 51 BC
- c) 58 BC
- d) 55 BC

Answer: a)

'Vikram Samvat' is said to have been founded by emperor Vikramaditya of Ujjain following his victory over the Sakas in 56 BC. It is a lunar calendar based on ancient Hindu tradition and is 56.7 years ahead of the solar Gregorian calendar.

31) Which is the most common gas released during volcanic eruptions?

- a) Water vapor
- b) Carbon dioxide
- c) Sulfur dioxide
- d) Hydrogen sulfide

Answer: a)

Superheated water vapor is the most common gas released during volcanic eruptions. Water vapor can account for 97 percent or more of total gas emissions from a volcano.

32) Global Energy Transition Index is released by\_\_\_\_\_.

- a) International Energy Agency (IEA)
- b) World Economic Forum (WEF)
- c) International Renewable Energy Agency (IRENA)
- d) International Solar Alliance

Answer: b)

Global Energy Transition Index (ETI) is a fact-based ranking intended to enable policy-makers and businesses

to plot the course for a successful energy transition. It is released by World Economic Forum (WEF).

33) Agronomy is a branch of science that deals with\_\_\_\_\_.

- a) Study of crops and the soils
- b) Study of plant nutrition and growth
- c) Study of grasses
- d) Study of food

Answer: a)

Agronomy is a branch of agricultural science that deals with the study of crops and the soils in which they grow.

34) Which are the main reproductive organs of a woman?

- a) Ovary
- b) Vulva
- c) Cervix
- d) Urethra

Answer: a)

The ovaries are the main reproductive organs of a woman. The two ovaries, which are about the size and shape of almonds, produce female hormones (oestrogens and progesterone) and eggs (ova).

35) Which is the 'Cleanest Capital City' in Swachh Survekshan 2020?

- a) Bhopal
- b) Lucknow
- c) New-Delhi
- d) Jaipur

Answer: c)

New Delhi Municipal Council (NDMC), one of the four municipalities of the national capital Delhi, is the 'Cleanest Capital City' in Swachh Survekshan 2020.

## RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 1 Exam

36) Bhagat Singh, Rajguru and Sukhdev were sentenced to death and hanged in which year?

- a) 1931
- b) 1933
- c) 1939
- d) 1941

Answer: a)

Bhagat Singh, Rajguru and Sukhdev were sentenced to death in the Lahore conspiracy case and ordered to be hanged on 23 March 1931.

37) Matki is a folk dance of which state?

- a) Bihar
- b) Rajasthan
- c) Gujarat
- d) Madhya Pradesh

Answer: d)

Matki Dance is mostly performed in the Malwa region of Madhya Pradesh, India. It is a solo dance performed by ladies on special occasions like weddings, birthdays, or any other special occasion.

38) Which among the following Governor-General founded the Asiatic society of Bengal with William Jones in 1784?

- a) Sir John Shore
- b) Warren Hastings
- c) Lord Amherst
- d) Lord Auckland

Answer: b)

Warren Hastings founded the Asiatic society of Bengal with William Jones in 1784. The Asiatic Society was founded by civil servant Sir William Jones on 15 January 1784 in a meeting presided over by Sir William Jones,

Justice of the Supreme Court of Judicature at Fort William at the Fort William in Calcutta, then capital of the British Raj, to enhance and further the cause of Oriental research.

39) Name the current Governor of West-Bengal?

- a) Anandiben Patel
- b) Bhagat Singh Koshyari
- c) Jagdeep Dhankhar
- d) Najma Heptulla

Answer: c)

Jagdeep Dhankhar became the governor of West Bengal on 30 July 2019.

40) Which of the following connects bone to bone?

- a) Cartilage
- b) Tendon
- c) Ligament
- d) Interstitial fluid

Answer: c)

A ligament is a fibrous connective tissue which attaches bone to bone, and usually serves to hold structures together and keep them stable.

### Logical Reasoning

1. Which one of the following does not belong to the group?

- a) Agra Fort
- b) Buland Darwaza
- c) Gateway of India
- d) Jodha Bai's Palace

Answer: C

- a) Agra Fort – Built by Akbar
- b) Buland Darwaza – Built by Akbar
- c) Gateway of India – Not built by Akbar

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d) Jodha Bai's Palace – Built by Akbar

2. Find the missing term in the series.

CA, FD, IG, LJ, ?

- a) OM
- b) MO
- c) PN
- d) NP

Answer: A

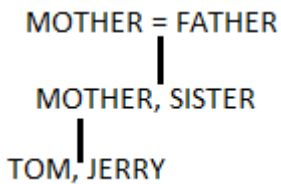
C + 3 = F; F + 3 = I; I + 3 = L; L + 3 = O

A + 3 = D; D + 3 = G; G + 3 = J; J + 3 = M

3. Tom said, "Jerry's aunt is the second daughter of my mother's father and my grandmother had only two daughters". How is Jerry's mother related to Tom?

- a) Aunt
- b) Mother
- c) Sister
- d) Daughter

Answer: B



4. If W means '+', D means 'x', H means '÷' and U means '-', then find the value of the expression given below.

2 W 9 H 3 D 4 U 3

- a) 10
- b) 12
- c) 11
- d) 13

Answer: C

2 W 9 H 3 D 4 U 3

W	D	H	U
---	---	---	---

+	x	÷	-
---	---	---	---

$$2 + 9 \div 3 \times 4 - 3$$

$$= 2 + 12 - 3$$

$$= 14 - 3$$

$$= 11$$

5. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

CRAZY : ZUXCV :: CALM : ?

- a) ZUIP
- b) ZIUP
- c) ZDIP
- d) ZIDP

Answer: C

$$C - 3 = Z$$

$$R + 3 = U$$

$$A - 3 = X$$

$$Z + 3 = C$$

$$Y - 3 = V$$

$$C - 3 = Z$$

$$A + 3 = D$$

$$L - 3 = I$$

$$M + 3 = P$$

6. Find the missing term in the series.

5, 11, 19, 29, ?, 55, 71

- a) 40
- b) 41
- c) 42
- d) 43

Answer: B

$$5 + 6 = 11$$

$$11 + 8 = 19$$

$$19 + 10 = 29$$

$$29 + 12 = 41$$

$$41 + 14 = 55$$

$$55 + 16 = 71$$



## RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 1 Exam

7. Find the similarity in the following.

Boat, Ship, Submarines, Yacht

- a) All of them sail above the water.
- b) All of them are water vessels.
- c) All of them have high sails.
- d) All of them are made of paper.

Answer: B

Boat, Ship, Submarines, Yacht → All of them are water vessels.

8. In the following equation, if the mathematical operators '+' and '÷' are interchanged and 5 is replaced by 2 throughout the equation then what is the value of the expression given below.

$$5 - 11 + 1 \times 5 \div 50 = ?$$

- a) 20
- b) 30
- c) 54
- d) 0

Answer: D

$$5 - 11 + 1 \times 5 \div 50 = ?$$

Operators '+' and '÷' are interchanged and 5 is replaced by 2 throughout the equation

$$2 - 11 \div 1 \times 2 + 20 = ?$$

$$= 2 - 22 + 20$$

$$= 22 - 22$$

$$= 0$$

9. Statements followed by some conclusions are given below:

**Statements:**

- I. Some cars are buses while some others are trains.
- II. Some trains that are cars are trucks.

III. All trucks sail in the water.

**Conclusions:**

- I. There is at least one bus that sails in the water.
- II. All trucks are cars.

Find which of the following conclusions logically follows from the given statements.

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

Answer: B

10. The present age of B is half of A's present age. After 5 years, the ratio of A's age to that of B's age will be 11 : 6.

Find B's age after 7 years?

- a) 50 years
- b) 25 years
- c) 32 years
- d) 37 years

Answer: C

Let A's present age be 'a' units.

So, B's present age is 'a/2' units.

After 5 years:

Age of A will be 'a + 5' units.

Age of B will be 'a/2 + 5' units.

According to question:

$$\frac{a+5}{\frac{a}{2}+5} = \frac{11}{6}$$

$$\Rightarrow 6a + 30 = 11(a/2 + 5)$$

$$\Rightarrow 6a + 30 = 11 \left( \frac{a+10}{2} \right)$$

$$\Rightarrow 2(6a + 30) = 11a + 110$$

$$\Rightarrow 12a + 60 = 11a + 110$$

$$\Rightarrow 12a - 11a = 110 - 60$$

$$\Rightarrow a = 50$$

So, B's present age is 50/2 i.e., 25 years.

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B's age after 7 years =  $25 + 7$   
= 32 years.

11. If PARIS is written as K1I3H, EGYPT is written as 2TBKG, then how is INDIA written?

- a) 2MW31
- b) 2MW3I
- c) 2WM31
- d) 2WM3I

Answer: A

Vowels are replaced by the number code shown below.

A – 1, E – 2, I – 3, O – 4, U – 5

Consonants are replaced by their reverse letter.

So, code for INDIA will be **2MW31**.

12. Three of the following words are related in a certain way and one is different. Select the odd one out.

- a) Time
- b) Speed
- c) Acceleration
- d) Mass

Answer: D

Mass is odd one out as mass is a physical quantity.

Time, speed and acceleration are not physical quantities.

13. A firm selects students satisfying the following criteria.

- A. Students who scored at least 70% in 10<sup>th</sup> or equivalent.
- B. Students who secured at least 60% in 12<sup>th</sup> or equivalent.
- C. Students who are only from Arts background.

Who among the following students will definitely be selected by the firm?

- a) P scored 54% in 10<sup>th</sup>, 67% in 12<sup>th</sup> and is an Arts student.

b) Q scored 80% in 10<sup>th</sup>, 44% in 12<sup>th</sup> and is a B.Sc graduate.

c) R scored 56% in 10<sup>th</sup>, 56% in 12<sup>th</sup> and completed her B.Com in 2018.

d) S scored 98% in 10<sup>th</sup>, 88% in 12<sup>th</sup> and has done honours in History.

Answer: D

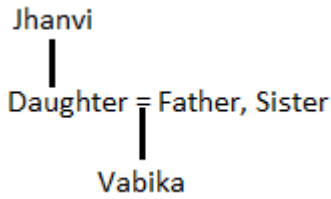
Conditions ↓	P	Q	R	S
A. Students who scored at least 70% in 10 <sup>th</sup> or equivalent.	No	Yes	No	Yes
B. Students who secured at least 60% in 12 <sup>th</sup> or equivalent.	Yes	No	No	Yes
C. Students who are only from Arts background.	Yes	No	Yes	Yes

14. Pointing towards a photo, Vabika said, "The daughter of Jhanvi is wife of the brother of my paternal aunt and my paternal grandmother had only two children". How Vabika is related to Jhanvi?

- a) Paternal grandmother
- b) Maternal grandmother
- c) Granddaughter
- d) Mother

Answer: C

**RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 1 Exam**



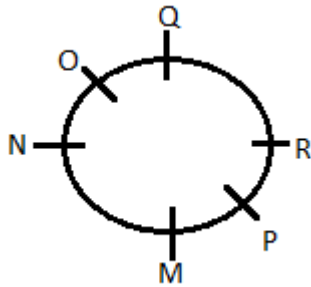
**Directions (15-17):** Consider the following information and answer the questions based on it.

Six friends M, N, O, P, Q and R are standing in a circle facing each other.

- P is to the immediate right of M.
  - O is sitting between N and Q. N is not facing M.
  - Neither Q nor N is an immediate neighbour of P.
15. Who among the following is standing opposite to P?

- N
- O
- Q
- R

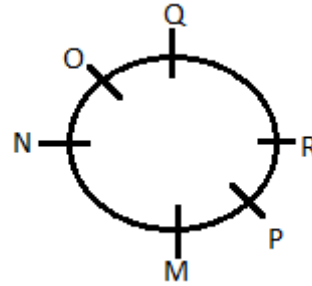
Answer: C



16. Who is standing 4<sup>th</sup> to the left of R?

- Q
- N
- P
- M

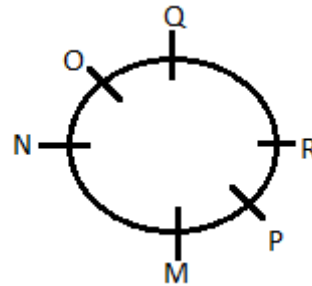
Answer: D



17. Who is standing between R and O?

- P
- N
- M
- Q

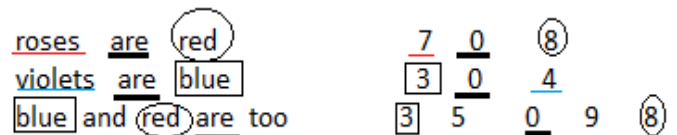
Answer: D



18. In a certain code language, 'roses are red' is written as '708', 'violets are blue' is written as '304', and 'blue and red are too' is written as '35098'. Which combination of digit represents 'blue and red'?

- 389
- 395
- 985
- Can't be determined

Answer: D



19. Rearrange the jumbled letters to make a meaningful word and then select the one which is different.

- ARTHE

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- b) VIERR
- c) KEYDIN
- d) UGLN

Answer: B

- a) ARTHE - HEART
- b) VIERR - RIVER**
- c) KEYDIN - KIDNEY
- d) UGLN - LUNG

20. In this question, two statement are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

**Statement:**

- I. Some frogs bark. All frogs that bark definitely bite.
- II. Some frogs do not like snakes.

**Conclusions:**

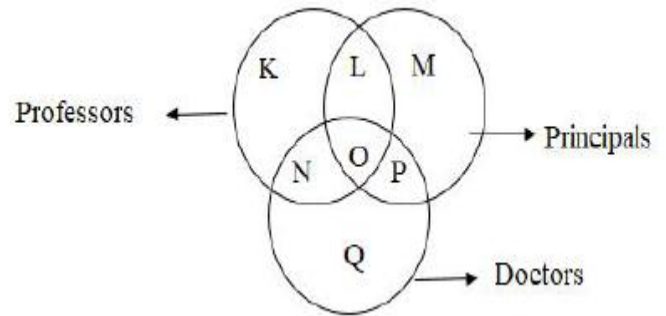
- I. There may be a barking frog that does not like snake.
- II. Every frog that bites does not necessarily bark.

Find which of the following conclusions logically follows from the given statements.

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

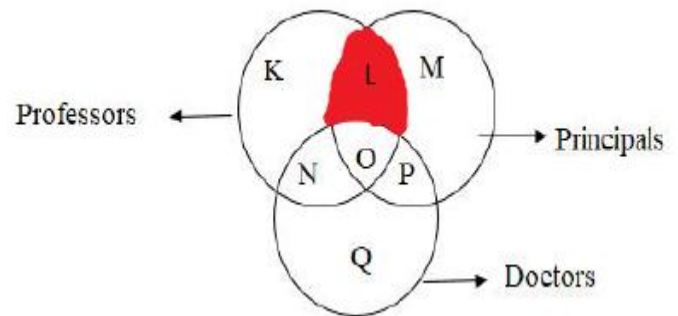
Answer: B

21. In the following Venn diagram, identify the letter that denotes Professors who are Principals but not Doctors?



- a) L
- b) N
- c) O
- d) P

Answer: A



22. From the given alternatives, select the word that can be formed using the letters of the given word.

MERCHANDISE

- a) DICE
- b) MERCHANT
- c) CHANCE
- d) CHARM

Answer: A

- a) DICE → MERCHANDISE → Can be formed
- b) MERCHANT → **MERCHANDISE** → Can't be formed → T is missing.
- c) CHANCE → MERCHANDISE → Can't be formed → double C is missing.

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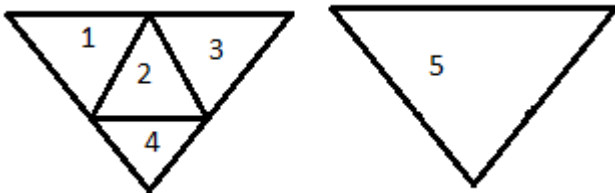
d) CHARMING → MERCHANDISE → Can't be formed → G is missing.

23. How many triangles are there in the following figure?



- a) 4
- b) 5
- c) 6
- d) 7

Answer: B



24. Arrange the given words in a logical and meaningful sequence.

1. Vegetable
  2. Cook
  3. Market
  4. Cut
  5. Eat
- a) 3, 1, 4, 2, 5
  - b) 3, 1, 2, 4, 5
  - c) 3, 4, 1, 2, 5
  - d) 3, 2, 4, 1, 5

Answer: A

3. Market
1. Vegetable
4. Cut
2. Cook

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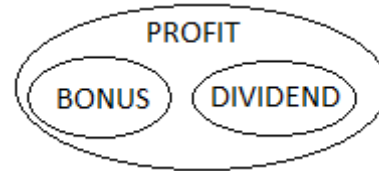
5. Eat

25. Identify the diagram that best represents the relationship among the given classes.

Profit, Bonus, Dividend

- a)
- b)
- c)
- d)

Answer: A



26. The statements below are followed by two conclusions labelled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

**Statements:**

- I. Some news are breaking.
- II. Some headlines are not news.

**Conclusions:**

- I. No headline is news.
- II. Some breaking are not headline.

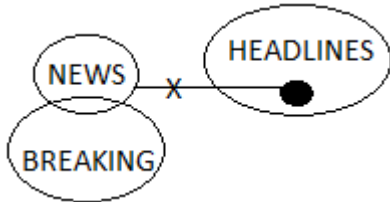
- a) Only conclusion I follows
- b) Neither conclusion I nor II follows

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- c) Both conclusions I and II follow  
d) Only conclusion II follows

Answer: B



- I. No headline is news. - False  
II. Some breaking are not headline. - False

27. In a row of girls, Vaani is 12<sup>th</sup> from the start and 19<sup>th</sup> from the end. In another row of girls, Sunita is 13<sup>th</sup> from the start and 23<sup>rd</sup> from the end. How many girls are there in both the rows together?

- a) 69  
b) 67  
c) 65  
d) 63

Answer: C

Vaani's row:

$$\text{Total number of girls} = 12 + 19 - 1 = 30$$

Sunita's row:

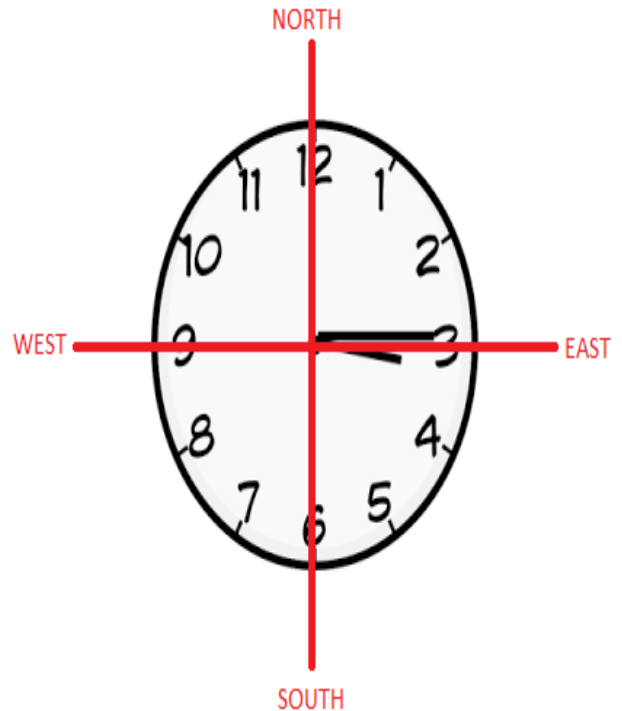
$$\text{Total number of girls} = 13 + 23 - 1 = 35$$

$$\text{Number of girls are there in both the rows together} = 30 + 35 = \mathbf{65}$$

28. The time in a clock is quarter past 3. If the hour hand points to the South-East, then which is the opposite direction to the minute hand?

- a) East  
b) West  
c) South-East  
d) North-West

Answer: B



Minute hand is facing east.

West is opposite of east.

29. Select the odd one out.

- a)  S  
b)  A  
c)  H  
d)  O

Answer: A

A, H and O have line of symmetry.

S does not have a line of symmetry.

30. The sum of the ages of four children born at the intervals of four years is 48. Find the age of the youngest child?

- a) 4  
b) 6

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c) 10

d) 14

Answer: B

Let the age of the youngest child be 'z'.

According to question:

$$z + (z + 4) + (z + 8) + (z + 12) = 48$$

$$\Rightarrow 4z + 24 = 48$$

$$\Rightarrow 4z = 48 - 24$$

$$\Rightarrow 4z = 24$$

$$\Rightarrow z = 6$$

**Mathematics**

1. Find the area of rhombus if one diagonal is 16 cm and side is 17 cm.

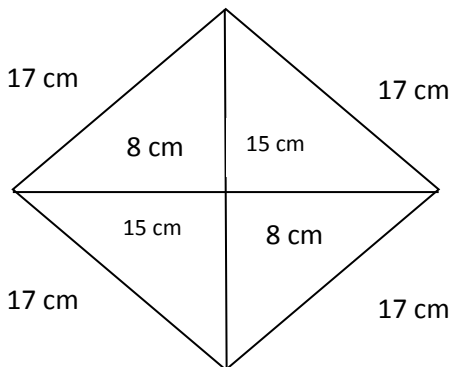
a) 240 cm<sup>2</sup>

b) 250 cm<sup>2</sup>

c) 260 cm<sup>2</sup>

d) 270 cm<sup>2</sup>

Answer: A



Firstly we have to find other diagonal

$$d_2^2 = 17^2 - 8^2 = 289 - 64 = 225$$

$$d_2 = 15$$

So, other diagonal = 30 cm

$$\text{Area of rhombus} = \frac{1}{2} \times d_1 \times d_2$$

$$= \frac{1}{2} \times 16 \times 30$$

$$= 8 \times 30$$

$$= 240 \text{ cm}^2$$

2. If area of cube is increases by 50%, then find the new surface area.

a) 120%

b) 125%

c) 130%

d) 150%

Answer: B

$$\text{New surface area} = 50\% + 50\% + 50 \times 50/100\%$$

$$= 100\% + 25\%$$

$$= 125\%$$

3. Find the mean of 10, 12, 14, 16, 18, 20, 26 and 28.

a) 10

b) 12

c) 14

d) 18

Answer: D

$$\text{Mean} = \frac{10 + 12 + 14 + 16 + 18 + 20 + 26 + 28}{8}$$

$$= \frac{144}{8}$$

$$= 18$$

4. Solve:  $0.25 / (0.025 \times 0.0025 \times 25)$ .

a) 140

b) 150

c) 160

d) 170

Answer: C

$$0.25 / (0.025 \times 0.0025 \times 25)$$

$$= \frac{25 \times 1000 \times 10000}{25 \times 25 \times 25 \times 100}$$

$$= \frac{100000}{625}$$

$$= 160$$

5. How many numbers are there between 200 and 1000 which is divisible by 7?

a) 112

b) 113

c) 114

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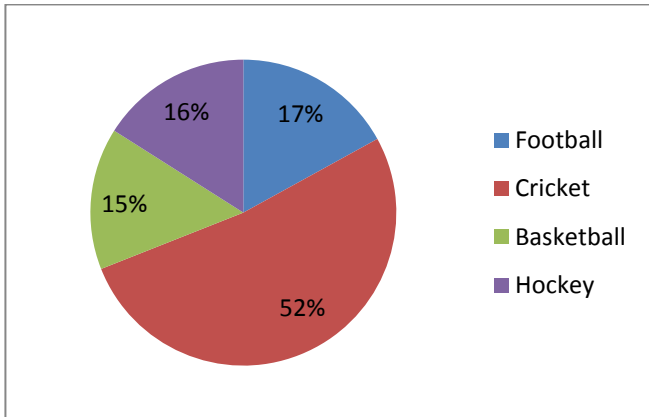
d) 115

Answer: C

$200/7 \approx 29$  and  $1000/7 \approx 142$

Numbers =  $142 - 29 + 1 = 143 - 29 = 114$

6. Read the below given pie-chart and find how many players play football if total number of player is 3000.



a) 510

b) 540

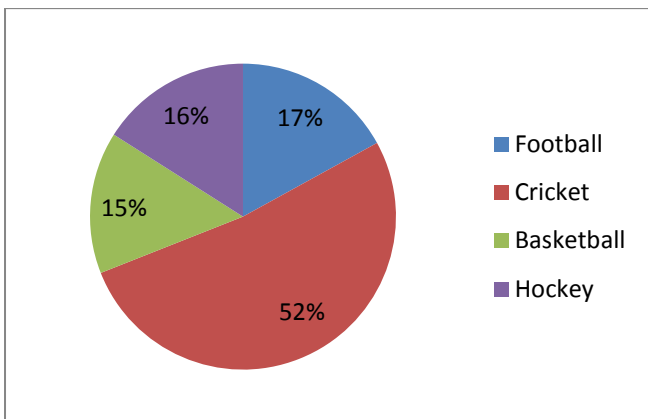
c) 550

d) 560

Answer: A

No. of players who play football =  $3000 \times 17\% = 3000 \times 17/100 = 30 \times 17 = 510$

7. Read the below given pie-chart and find the angle of hockey player if total number of player is 3000.



a)  $61.2^\circ$

b)  $57.6^\circ$

c)  $54^\circ$

d)  $187.2^\circ$

Answer: B

$100\% = 360^\circ$

$1\% = 3.6^\circ$

Angle of hockey player =  $16 \times 3.6$

=  $57.6^\circ$

8. If area of square is  $36 \text{ cm}^2$  and midpoint of sides of square is joined to form a new square then find the area of new square.

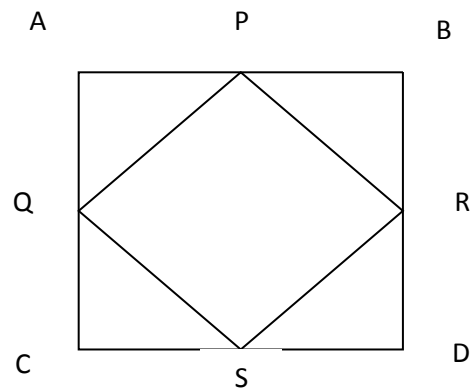
a)  $3 \text{ cm}^2$

b)  $9 \text{ cm}^2$

c)  $8 \text{ cm}^2$

d)  $18 \text{ cm}^2$

Answer: D



Area of square =  $36 \text{ cm}^2$

$a^2 = 36$

$a = \sqrt{36}$

$a = 6 \text{ cm}$

So,  $CS = SD = CQ = QA = AP = PB = BR = RD = 3 \text{ cm}$

In  $\Delta QCS$ ,

$QS^2 = CS^2 + CQ^2$

$QS^2 = 3^2 + 3^2$

$QS^2 = 9 + 9$

$QS^2 = 18$

$QS = \sqrt{18}$

$QS = 3\sqrt{2}$



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Similarly  $QS = SR = RP = PQ = 3\sqrt{2} = \text{side}$

So, area =  $a^2 = (3\sqrt{2})^2 = 18 \text{ cm}^2$

9. A man walk at a speed of 4 kmph and a car pass in the same direction, but due to fog a man can see the car only at a distance of 300 m for 4 min. Find the speed of the car.

- a) 6.5 km/hr
- b) 7.5 km/hr
- c) 8.5 km/hr
- d) 9.5 km/hr

Answer: C

Let the speed of the car be x

According to the question,

$$300 \times 18/5 = (x - 4) \times 4 \times 60$$

$$300 \times 18/5 = (x - 4) \times 240$$

$$60 \times 18/240 = (x - 4)$$

$$9/2 = (x - 4)$$

$$4.5 = (x - 4)$$

$$x = 4.5 + 4$$

$$x = 8.5 \text{ km/hr}$$

10. A person sell a goods at a profit of 20% and now cost price and selling price of the article is reduced by Rs. 100 and profit is increases by 4%, then find the cost price.

- a) Rs. 600
- b) Rs. 500
- c) Rs. 400
- d) Rs. 700

Answer: A

According to the question,

CP	SP
5	6 (If P% = 20%)
-100	-100

25	31 (If P% = 24%)
----	------------------

---


$$31 \times 5 - 25 \times 6 = (25 - 31) \times 100$$

$$155 - 150 = 6 \times 100$$

5 ratio = 600

So, 1 ratio = 120

New CP =  $5 \times 120 = 600$

11. Find the remainder of  $(7^{13} + 1)/6$ .

- a) 1
- b) 2
- c) 3
- d) 4

Answer: B

$$= (7^{13} + 1)/6$$

$$= 7^{13}/6 + 1/6$$

$$= 1 + 1$$

$$= 2$$

12. If  $\sqrt{7} + \sqrt{2}/\sqrt{7} - \sqrt{2} = x + y\sqrt{14}$ , then find the value of y.

- a) 9/5
- b) 2/5
- c) 4/5
- d) 6/5

Answer: B

$$\sqrt{7} + \sqrt{2}/\sqrt{7} - \sqrt{2} = x + y\sqrt{14}$$

On rationalizing we get,

$$\Rightarrow \sqrt{7} + \sqrt{2}/\sqrt{7} - \sqrt{2} \times \sqrt{7} + \sqrt{2}/\sqrt{7} + \sqrt{2} = x + y\sqrt{14}$$

$$\Rightarrow (\sqrt{7} + \sqrt{2})^2 / (7 - 2) = x + y\sqrt{14}$$

$$\Rightarrow (7 + 2 + 2\sqrt{14})/5 = x + y\sqrt{14}$$

$$\Rightarrow 9 + 2\sqrt{14}/5 = x + y\sqrt{14}$$

$$\Rightarrow 9/5 + 2\sqrt{14}/5 = x + y\sqrt{14}$$

On comparing  $x = 9/5$  and  $y = 2/5$

13. The ratio of age of Ram's father and Ram is 4 : 1 and four years ago ratio of their age is 6 : 1. Find the present age of Ram's father.

- a) 20 years
- b) 44 years
- c) 40 years
- d) 60 years

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Answer: C

Let the Ram's father age be x and Ram age be y.

$$x/y = 4/1 \dots (i)$$

$$x = 4y$$

$$x - 4/y - 4 = 6/1 \dots(ii)$$

Putting the value of x in equ (ii) we get,

$$4y - 4/y - 4 = 6$$

$$4(y - 1)/y - 4 = 6$$

$$y - 1/y - 4 = 6/4$$

$$y - 1/y - 4 = 3/2$$

$$2(y - 1) = 3(y - 4)$$

$$2y - 2 = 3y - 12$$

$$12 - 2 = 3y - 2y$$

$$10 = y$$

$$x = 4y = 4 \times 10 = 40$$

Ram's Father age is 40 years.

14. What number should be subtracted from 1391, so that number will be divisible by 7, 9 and 11 and leaves remainder 3 in every case?

- a) 1
- b) 2
- c) 3
- d) 4

Answer: B

LCM of 7, 9, 11 is 693

According to the question,

$$1391 - x = 693k + 3$$

If we put k = 2

$$1391 - x = 693 \times 2 + 3$$

$$1391 - x = 1386 + 3$$

$$1391 - x = 1389$$

$$1391 - 1389 = x$$

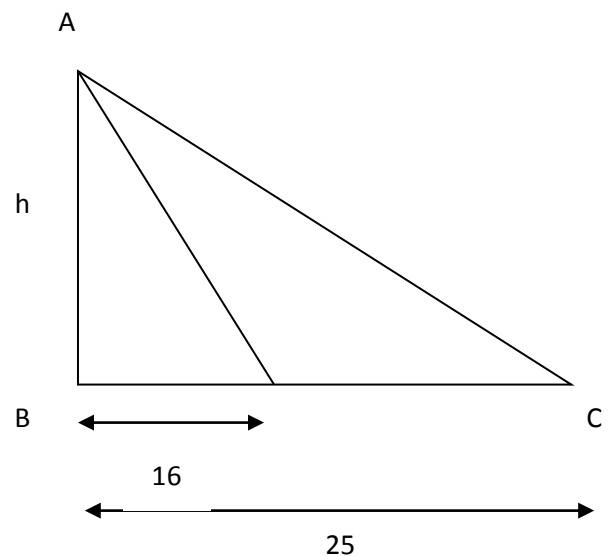
$$x = 2$$

So, if 2 is subtracted from 1391 then number should be divisible by 7, 9 and 11 and leaves remainder 3.

15. A tower is situated at a distance of 16 cm and another tower at a distance of 25 cm makes angle  $\theta$  and  $90 - \theta$ . Find the height of the tower.

- a) 15 cm
- b) 17 cm
- c) 18 cm
- d) 20 cm

Answer: D



$$\begin{aligned} \text{Height (h)} &= \sqrt{16 \times 25} \\ &= \sqrt{400} \\ &= 20 \text{ cm} \end{aligned}$$

16. At starting 1/3rd of passenger left and 96 passengers boarding the train, again 1/2 of passenger left and 12 passengers boarding the train now there are total 248 passengers are in the train. Find how many passengers are there at starting?

- a) 865
- b) 664
- c) 564
- d) 789

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Answer: C

According to the question,

$$248 - 12 = 236$$

$$\frac{1}{2} \text{ of passenger left the train it means passenger} = 2 \times 236 = 472$$

$$\text{If 96 passengers already board the train then} = 472 - 96 = 376$$

$$\frac{1}{3} \text{ rd of passenger left the train it means } \frac{2}{3}x = 376$$

$$x = 188 \times 3 = 564$$

So, initially there are total 564 passengers.

17. A man covered a certain distance at certain speed.

Had he moved 3 kmph faster, he would have taken 40 minutes less and had he moved 2 kmph slower, he would have taken 40 minutes more. Find the distance.

- a) 20 km
- b) 30 km
- c) 40 km
- d) 50 km

Answer: C

$$\text{Speed (s)} = \frac{2xy}{(x - y)} = \frac{2 \times 3 \times 2}{(3 - 2)} = \frac{12}{1} = 12 \text{ km/hr}$$

$$\text{Distance} = st(1 + \frac{s}{x}) = 12 \times \frac{40}{60} (1 + \frac{12}{3}) = 40 \text{ km}$$

18. Find the number which is divisible by 6, 8 and 16 and leaves the remainder 3 in each case and also the number is divisible by 7.

- a) 21
- b) 42
- c) 147
- d) 68

Answer: C

$$\text{LCM of 6, 8 and 16} = 48$$

$$\text{Number} = (48k + 3)/7$$

$$\text{If we put } k = 3, \text{ then } \frac{147}{7} = 21$$

Then the number is 147.

19. If  $a = x + y$ ,  $b = x - y$  and  $c = 1 - 2x$ , then find the value of  $a^2 + b^2 + c^2 + 2(ab + bc + ca)$ .

- a) 0
- b) 1
- c) 2
- d) 3

Answer: B

$$a^2 + b^2 + c^2 + 2(ab + bc + ca)$$

$$= (a + b + c)^2$$

$$= (x + y + x - y + 1 - 2x)^2$$

$$= 1$$

20. If  $x + 2y = 27$  and  $x - 2y = -1$ , then find the value of  $y$ .

- a) 13
- b) 14
- c) 7
- d) 26

Answer: C

$$x + 2y = 27$$

$$x - 2y = -1$$

On adding

$$2x = 26$$

$$x = 13 \text{ and } y = 7$$

21. The area of circle is 616 sq.cm. Find the diameter.

- a) 7 cm
- b) 14 cm
- c) 28 cm
- d) 12 cm

Answer: C

$$\text{Area of circle} = 616 \text{ sq. cm}$$

$$\pi r^2 = 616$$

$$\frac{22}{7} \times r^2 = 616$$

$$r = 14$$

$$\text{Diameter} = 2r = 2 \times 14 = 28 \text{ cm}$$

## RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 1 Exam

22. Find the median, mode and mean of 9, 5, 8, 9, 9, 7, 8, 9, 8.

- a) 9, 9, 9
- b) 8, 9, 8
- c) 9, 8, 9
- d) 8, 9, 9

Answer: B

$$\text{Mean} = (9 + 5 + 8 + 9 + 9 + 7 + 8 + 9 + 8)/9 = 8$$

Arranging the numbers in increasing order we get,

5, 7, 8, 8, 9, 9, 9, 9

Median = middle term = 8

Mode = max occurrence = 9

23. If  $\operatorname{cosec} 240^\circ = x$ , then the value of  $x$  is.

- a)  $\sqrt{2}$
- b)  $-\sqrt{2}$
- c) 2
- d)  $-2/\sqrt{3}$

Answer: D

$$\operatorname{Cosec} 240^\circ = x$$

$$\operatorname{Cosec} (180^\circ + 60^\circ) = x$$

$$-\operatorname{Cosec} 60^\circ = x$$

$$x = -2/\sqrt{3}$$

24. Simplify:  $2 \times [-0.3 (1.3 + 3.7)]$  of 0.8.

- a) - 1.92
- b) - 0.72
- c) - 2.16
- d) - 2.4

Answer: D

$$2 \times [-0.3 (1.3 + 3.7)] \text{ of } 0.8$$

$$= 2 \times [-0.3 \times 5] \times 0.8$$

$$= -2 \times 1.5 \times 0.8$$

$$= -2.4$$

25. The difference between two numbers is 2. The difference of their squares is 28, what will be the sum of the two numbers?

- a) 16
- b) 14
- c) 12
- d) 10

Answer: B

According to the question,

$$x - y = 2 \dots (i)$$

$$x^2 - y^2 = 28$$

$$(x - y) \times (x + y) = 28$$

$$2 \times (x + y) = 28$$

$$(x + y) = 28/2$$

$$(x + y) = 14 \dots (ii)$$

On solving equ (i) and (ii) we get,

$$x = 8 \text{ and } y = 6$$

$$\text{so, } x + y = 8 + 6 = 14$$

26. The sum of the two numbers is 100 and their differences are 50. Then what is the ratio of the two numbers?

- a) 2 : 1
- b) 3 : 1
- c) 4 : 1
- d) 5 : 1

Answer: B

According to the question,

$$x + y = 100$$

$$x - y = 50$$

On adding,

$$2x = 150$$

$$x = 75$$

$$\text{Then } y = 25$$

$$x : y = 75 : 25 = 3 : 1$$

## RRB NTPC Memory Based Model Paper Based on Jan 25 Shift 1 Exam

27. In 6.25, how many parts is 25 paise?

- a) 1/25
- b) 1/20
- c) 25
- d) 2/25

Answer: A

According to the question,

$$25/625 = 1/25$$

28. The average of 5 numbers is 9. The average of 3 numbers in the 5 numbers is 7. What is the average of the other two numbers?

- a) 8
- b) 10
- c) 11
- d) 12

Answer: D

$$\text{Sum of 5} = 9 \times 5 = 45$$

$$\text{Sum of 3} = 3 \times 7 = 21$$

$$\text{Sum of other 2} = 45 - 21 = 24$$

$$\text{Average of other 2} = 24/2 = 12$$

29. Find the factors of  $(x^2 + x - 42)$ .

- a)  $(x + 14)(x - 3)$
- b)  $(x + 6)(x - 7)$
- c)  $(x - 6)(x + 7)$
- d)  $(x - 14)(x + 3)$

Answer: B

$$(x^2 + x - 42)$$

$$= (x^2 + 7x - 6x - 42)$$

$$= x(x + 7) - 6(x + 7)$$

$$= (x - 6)(x + 7)$$

30. What is the length of diagonal, if area of a rectangle is  $168 \text{ cm}^2$  and breadth is  $7 \text{ cm}$ ?

- a) 24 cm
- b) 15 cm
- c) 17 cm
- d) 25 cm

Answer: D

$$\text{Area of a rectangle} = 168$$

$$l \times b = 168$$

$$7 \times b = 168$$

$$b = 168/7$$

$$b = 24$$

$$\text{Diagonal} = \sqrt{24^2 + 7^2}$$

$$= \sqrt{576 + 49}$$

$$= \sqrt{625}$$

$$= 25 \text{ cm}$$

Length of the diagonal of the rectangle = 25 cm.



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