

## RRB NTPC Memory Based Model Paper Based on Feb 10 Exam



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### General Awareness

1) First Livestock census was carried out in which year?

- a) 1921
- b) 1919
- c) 1915
- d) 1931

Answer: b)

The first Livestock Census in India was carried out in 1919-1920. Since then it has been conducted once in every five years. So far, 20 livestock censuses have been conducted in India.

2) Which article of the Indian Constitution deals with the President of India?

- a) Article 52
- b) Article 62
- c) Article 71
- d) Article 65

Answer: a)

The President of India is the ceremonial head of state of India and the Commander-in-chief of the Indian Armed Forces. As per Article 52, the President of India is the head of the Indian state. He is also the first citizen of India.

3) Who was awarded Man Booker Prize 2018?

- a) George Saunders
- b) Anna Burns
- c) Paul Beatty
- d) Marlon James

Answer: b)

Anna Burns was awarded the 2018 Booker Prize for her third novel, Milkman. She became the first Northern Irish author to win the prize.

4) Who among the following is the CEO of Google?

- a) Sundar Pichai
- b) Satya Nadella
- c) Sergey Brin
- d) Larry Page

Answer: a)

Sundar Pichai, is an Indian-American business executive. He is the chief executive officer of Alphabet Inc. and its subsidiary Google. He earned his degree from IIT Kharagpur in metallurgical engineering.

5) Who among the following ruler founded the city of Agra?

- a) Bahlul Lodi
- b) Sikandar Lodi
- c) Jahangir
- d) Shah Jahan

Answer: b)

Sultan Sikandar Lodi, the Muslim ruler of the Delhi Sultanate, founded Agra in the year 1504. After the Sultan's death, the city was passed on to his son, Sultan Ibrahim Lodi.

6) End of Imagination book is written by whom?

- a) Samit Basu

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b) Anuja Chauhan

c) Arundhati Roy

d) Neelam Saxena Chandra

Answer: c)

End of Imagination book is written by Arundhati Roy. It brings together five of Arundhati Roy's acclaimed books of essays into one comprehensive volume for the first time and features a new introduction by the author.

7) Kedarnath temple is situated in which state?

a) Kerala

b) Jharkhand

c) Uttarakhand

d) Himachal Pradesh

Answer: c)

Kedarnath Temple is a Hindu temple dedicated to Lord Shiva. Located on the Garhwal Himalayan range near the Mandakini river, Kedarnath is located in the state of Uttarakhand, India.

8) Which ruler of Tughlaq dynasty shifted his capital from Delhi to Daulatabad?

a) Ghiyath-ud-din Tughluq

b) Muhammad bin Tughluq

c) Firuz Shah Tughlaq

d) Mahmud Tughlaq

Answer: b)

Muhammad bin Tughluq ordered to move his capital from Delhi to Daulatabad (in present-day Maharashtra) in the Deccan region of India in the year 1327. He ordered the whole population of Delhi as well royal household including scholars, poets, musician to move new capital. During the relocation, many people died.

9) Who was the First Chairman of Rajya Sabha?

a) Zakir Husain

b) Varahagir Venkata Giri

c) Shanker Dayal Sharma

d) Sarvepalli Radhakrishnan

Answer: d)

The Rajya Sabha or Council of States is the upper house of the bicameral Parliament of India. Dr. S. Radhakrishnan was the first Chairman of Rajya Sabha for two consecutive terms.

10) National Bank for Agriculture and Rural Development (NABARD) was established in\_\_\_\_\_.

a) 1982

b) 1988

c) 1990

d) 1985

Answer: a)

National Bank for Agriculture and Rural Development is an apex development finance institution fully owned by Government of India. The bank has been entrusted with matters concerning policy, planning, and operations in the field of credit for agriculture and other economic activities in rural areas in India. It was founded on 12 July 1982.

11) Orang National Park is situated in which state?

a) Bihar

b) Jharkhand

c) Assam

d) Gujarat

Answer: c)

The Orang National Park is a national park in India located on the northern bank of the Brahmaputra River

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in the Darrang and Sonitpur districts of Assam. It was established as a sanctuary in 1985 and declared a national park on 13 April 1999.

12) What is the more common name for solid carbon dioxide?

- a) Dry Ice
- b) Quick Silver
- c) Epsom
- d) Potash

Answer: a)

Dry ice is the solid form of carbon dioxide (CO<sub>2</sub>), a molecule consisting of a single carbon atom bonded to two oxygen atoms. It is colorless, non-flammable, with a sour zesty odor, and can lower the pH of a solution when dissolved in water, forming carbonic acid.

13) Indra Dhanush Mission is related to what?

- a) Reducing the cost of energy-saving compact fluorescent lamps
- b) empowerment of persons with disabilities
- c) financial assistance to rural poor for constructing their houses
- d) Children's Vaccination

Answer: d)

Mission Indradhanush is a health mission of the Government of India. It was launched by Union Health Minister J. P. Nadda on 25 December 2014. The scheme this seeks to drive towards 90% full immunisation coverage of India.

14) Manmohan line acts as the international boundary between which two countries?

- a) Germany and France

b) China and India

- c) Poland and Germany
- d) India and Pakistan

Answer: b)

The McMahon Line is a demarcation line drawn on map referred to in the Simla Convention, a treaty between Britain and Tibet signed in 1914. It is currently the effective boundary between China and India.

15) Which Article of the Indian Constitution provides that there shall be the Prime Minister of India?

- a) Article 75
- b) Article 77
- c) Article 74
- d) Article 79

Answer: c)

Article 74 of the Indian Constitution states that there shall be a Council of Ministers with the Prime Minister at the head to aid and advise the President who shall, in the exercise of his functions, act in accordance with such advice.

16) Which is the highest capacity nuclear power-plant in India?

- a) Kudankulam Nuclear Power Plant
- b) Tarapur Nuclear Reactor
- c) Kalapakkam Nuclear Power Plant
- d) Narora Nuclear Reactor

Answer: a)

Kudankulam Nuclear Power Plant is located in the Tamil Nadu, Southern India. It is the highest-capacity nuclear plant in India, with a total of 2,000MW.

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17) Which International organisation aims to maintain international peace and security in the world?

- a) UNO
- b) WHO
- c) OECD
- d) UNICEF

Answer: a)

The United Nations (UN) is an intergovernmental organization that aims to maintain international peace and security, develop friendly relations among nations, achieve international cooperation, and be a centre for harmonizing the actions of nations. It was founded in 1945.

18) Mount Aconcagua is the highest mountain of which continent?

- a) Africa
- b) America
- c) Antarctica
- d) Europe

Answer: b)

Aconcagua is a mountain in Mendoza Province, Argentina. It is the highest mountain in the Americas, the highest outside Asia, and the highest in both the Southern and the Western Hemispheres with a summit elevation of 6,961 metres.

19) Warli painting belongs to which Indian state?

- a) Haryana
- b) Maharashtra
- c) Uttar Pradesh
- d) Rajasthan

Answer: b)

Warli painting is a form of tribal art mostly created by the tribal people from the North Sahyadri Range in Maharashtra, India. It is one of the finest examples of the folk style of paintings.

20) Influenza is caused in humans by\_\_\_\_\_.

- a) virus
- b) bacteria
- c) protozoa
- d) fungi

Answer: a)

Influenza is a viral infection that attacks your respiratory system- your nose, throat and lungs. Fever, cough, shaking chills, body aches, and extreme weakness are common symptoms of this disease.

21) Which is the most reactive of all the halogens?

- a) Bromine
- b) Chlorine
- c) Iodine
- d) Fluorine

Answer: d)

Flourine is the most reactive element in the halogen group. This is because it has the smallest radius and most electronegative character.

22) 'Flights' is a fragmentary novel authored by whom?

- a) Olga Tokarczuk
- b) Armando Lucas Correa
- c) Helen Phillips
- d) Kristin Harmel

Answer: a)

Flights is a fragmentary novel by the Polish author Olga Tokarczuk. The novel is a philosophical rumination on

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modern-day travel. The book was translated into English by Jennifer Croft.

23) Panchatantra is a book authored by whom?

- a) Pandit Vishnu Sharma
- b) Kalidasa
- c) Chanakya
- d) Bhavabhuti

Answer: a)

The Panchatantra means five books. It is possibly the oldest surviving collection of Indian fables, having been written around 200BC by Pandit Vishnu Sharma, a Hindu scholar. The book is called a Nitishastra, which means book that imparts wisdom on the correct conduct in life.

24) What is the full form of SMPS?

- a) switched-mode power supply
- b) switching-mode power supply
- c) switch-mode power supply
- d) All of the above

Answer: d)

A switched-mode power supply also known as switching-mode power supply, switch-mode power supply, switched power supply or switcher is an electronic power supply that incorporates a switching regulator to convert electrical power efficiently.

25) Indian Bank has been merged with with of the following bank?

- a) Indian Overseas Bank
- b) Bank of India
- c) Canara Bank
- d) Allahabad Bank

Answer: d)

Indian Bank is an Indian state-owned financial services company established in 1907 and headquartered in Chennai, India. As per the announcement made by the Indian Finance Minister Nirmala Sitharaman on 30 August 2019, Allahabad Bank merged from 1 April 2020, making it the seventh largest bank in the country.

26) Who became the new chairman of National School of Drama?

- a) Paresh Rawal
- b) Virendra Saxena
- c) Yashpal Sharma
- d) Manoj Bajpayee

Answer: a)

National School of Drama (NSD) is a theatre training institute situated at New Delhi, India. It is an autonomous organization under Ministry of Culture, Government of India. Paresh Rawal is the current Chairperson of National School of Drama (NSD).

27) Baneshwar fair is an annual tribal fair held in which district in Rajasthan?

- a) Dungarpur
- b) Banswara
- c) Nagaur
- d) Sirohi

Answer: a)

Baneshwar fair is an annual tribal fair held in Dungarpur district in Rajasthan state of India. The fair is held in the month of January or February at Baneshwar, near the confluence of the Som and Mahi rivers. This fair is a major fair in tribal culture and has been described as "the Kumbh mela for the tribals".

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28) Who won the most valuable player award in IPL 2020?

- a) Jofra Archer
- b) Glenn Maxwell
- c) Jasprit Bumrah
- d) KL Rahul

Answer: a)

England fast bowler Jofra Archer won the Most Valuable Player award after starring for Rajasthan Royals at the 2020 Indian Premier League.

29) What is the full form of MRI?

- a) Magnetic Resonance Imaging
- b) Magnetic Resource Imaging
- c) Magnetic Region Image
- d) Magnetic Resonance Image

Answer: a)

MRI stands for Magnetic Resonance Imaging. It is an imaging technique in medicine that uses magnetic fields and radio waves to get a detailed image of the anatomy and physiology of the body to detect any abnormalities.

30) As per Union Budget 2020, India is now the \_\_\_\_\_ largest economy in the world.

- a) 5th
- b) 2nd
- c) 3rd
- d) 6th

Answer: a)

India is now the fifth-largest economy in the world. According to the Economic Survey, India's economic growth is expected to "strongly rebound" to around 6.1

percent in 2020-21 from the five percent estimated in the current fiscal.

31) Neil Island, one of India's Andaman Islands was renamed as \_\_\_\_\_.

- a) Netaji Subhas Chandra Bose Dweep
- b) Shaheed Dweep
- c) Swaraj Dweep
- d) Mahatma Gandhi Dweep

Answer: b)

Prime Minister Narendra Modi renamed three islands of Andaman and Nicobar on the occasion of 75th anniversary of Tricolour hoisting by Netaji Subhas Chandra Bose here. The Ross Island was renamed as Netaji Subhas Chandra Bose Dweep, the Neil Island as Shaheed Dweep and the Havelock Island as Swaraj Dweep.

32) International Day of Yoga is celebrated on \_\_\_\_\_.

- a) 18<sup>th</sup> May
- b) 21<sup>st</sup> June
- c) 11<sup>th</sup> April
- d) 27<sup>th</sup> August

Answer: b)

The International Day of Yoga has been celebrated annually on 21 June since 2015, following its inception in the United Nations General Assembly in 2014. Yoga is a physical, mental and spiritual practice which originated in India.

33) Who is the current CEO of Facebook?

- a) Mark Zuckerberg
- b) Susan Wojcicki
- c) Brian Acton

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d) Kevin Systrom

Answer: a)

Mark Elliot Zuckerberg is an American media magnate, internet entrepreneur, and philanthropist. He is known for co-founding Facebook, Inc. and serves as its chairman, chief executive officer, and controlling shareholder.

34) Ashtamudi Lake is located in which state?

- a) Bihar
- b) Telangana
- c) Kerala
- d) Madhya Pradesh

Answer: c)

Ashtamudi Lake, in the Kollam District of the Indian state of Kerala, is the most visited backwater and lake in the state. It possesses a unique wetland ecosystem and a large palm-shaped water body, second only in size to the Vembanad estuary ecosystem of the state.

35) Hirakud Dam is built across which river?

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

Answer: b)

Hirakud Dam is built across the Mahanadi River located in Sambalpur in the state of Odisha. It is one of the first major multipurpose river valley projects started after India's independence.

36) BCG Vaccine is used for the treatment of which disease?

- a) Influenza

b) Hepatitis B

- c) Chicken-pox
- d) Tuberculosis

Answer: d)

BCG (bacille Calmette-Guerin) vaccine is used to prevent tuberculosis (TB) in people who have not been infected with the disease but are at a high risk of getting it. This vaccine contains live bacteria that have been weakened. It works by causing the body to produce its own protection (antibodies) against the bacteria that causes tuberculosis.

37) Who was the first Deputy Speaker of Lok Sabha?

- a) M. A. Ayyangar
- b) Hukam Singh
- c) Raghunath Keshav Khadiolkar
- d) Suraj Bhan

Answer: a)

M. A. Ayyangar was the first Deputy Speaker and then Speaker of the Lok Sabha in the Indian Parliament. He was served as the Governor of Bihar.

38) Sattriya is a folk dance of which state?

- a) Assam
- b) Bihar
- c) Madhya Pradesh
- d) Uttar Pradesh

Answer: a)

Sattriya is a major classical dance of India which was introduced in the 15th century A.D by the great Vaishnava saint and reformer of Assam. It was recognized in 2000 as a classical dance by Sangeet Natak Akademi of India.



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39) HDFC Bank Limited is headquartered in which city?

- a) Chennai
- b) Mumbai
- c) Bengaluru
- d) Pune

Answer: b)

HDFC Bank Limited is an Indian banking and financial services company headquartered in Mumbai, Maharashtra. It is India's largest private sector bank by assets. It is the largest bank in India by market capitalisation as of March 2020.

40) Which among the following governor-general introduced the Permanent Settlement System in the year 1793?

- a) Lord Chelmsford
- b) Lord Ripon
- c) Lord Cornwallis
- d) Lord Canning

Answer: c)

The Permanent Settlement of Bengal was brought into effect by the East India Company headed by the Governor-General Lord Cornwallis in 1793. This was basically an agreement between the company and the Zamindars to fix the land revenue.

**Logical Reasoning**

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

Barometer, Kilometre, Unit



a)



b)



c)



d)

Answer: C



2. An equation followed by two conclusions is given below.

**Statement:**  $W > K = P \geq Y > F$

**Conclusions:**

- I.  $F < W$
- II.  $Y > W$

Choose the correct option.

- a) Only I is true.
- b) Only II is true.
- c) Both I and II are true.
- d) Neither I nor II is true.

Answer: A

I.  $F < W \rightarrow$  True (As,  $W > K = P \geq Y > F \rightarrow F < W$ )

II.  $Y > W \rightarrow$  False (As,  $W > K = P \geq Y \rightarrow W > Y$ )

**Direction (3 – 5):** Read the given information and answer the questions based on it.

Eight persons Laurel, Olivia, Thea, Oliver, Felicity, Diego, Clarke and Murphy are seating around a circular table facing the centre. Felicity is adjacent to Diego and Thea. Clarke is second to the left of Murphy. Olivia is facing Thea who is not an immediate neighbour of



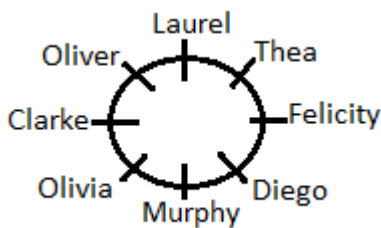
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Murphy or Oliver. Felicity and Murphy are not facing each other.

3. Oliver is facing \_\_\_\_\_.

- a) Diego
- b) Laurel
- c) Murphy
- d) Clarke

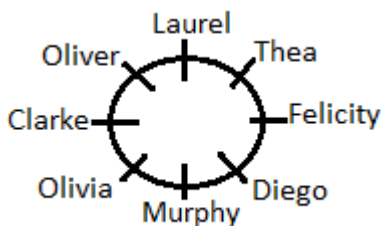
Answer: A



4. Who among the following is sitting between Oliver and Thea?

- a) Clarke
- b) Laurel
- c) Diego
- d) None of these

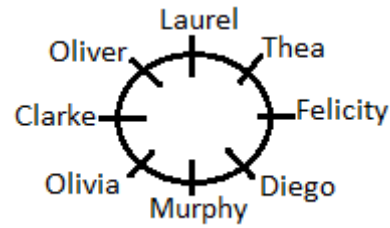
Answer: B



5. Who is 5<sup>th</sup> to the left of Felicity?

- a) Clarke
- b) Laurel
- c) Olivia
- d) Oliver

Answer: D



6. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

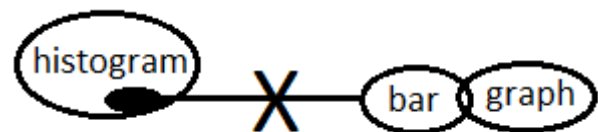
**Statements:**

- I. Some bar are graph.
- II. Some histogram is not bar.

**Conclusions:**

- I. Some graph is histogram.
  - II. No Histogram is graph.
- a) Only conclusion II follows
  - b) Only conclusion I follows
  - c) Either conclusion I or II follows
  - d) Both conclusions I and II follow

Answer: C



- I. Some graph is histogram. - False
  - II. No Histogram is graph. - False
- Either conclusion I or II follows.

7. Which two mathematical symbols need to be interchanged to correct the below equation?

$$9 + 3 \times 2 - 8 \div 4 = 8$$

- a) ÷ and ×
- b) ÷ and +

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c) × and -

d) + and ×

Answer: C

$$9 + 3 \times 2 - 8 \div 4 = 8$$

c) × and -

$$= 9 + 3 - 2 \times 8 \div 4$$

$$= 9 + 3 - 4$$

$$= 12 - 4$$

$$= 8$$

8. A statement followed by two assumptions is given below.

**Statement:**

“Apply nets on windows to prevent the entrance of mosquitoes in the house”.

**Assumptions:**

I. The entering of mosquitoes from entrances other than windows is desirable.

II. Nets are not available to apply on doors.

Choose the correct alternative.

a) Only I is implicit.

b) Only II is implicit.

c) Both I and II are implicit.

d) Neither I nor II is implicit.

Answer: D

9. If A is the sister of B, C is the father of D, L is paternal uncle of D and B is the sister of L, the how is A related to D?

a) Mother

b) Aunt

c) Sister

d) Grandmother

Answer: B

A (-), B (-), L (+), C (+)

↓  
D

10. A statement followed by two conclusions is given below.

**Statements:**

Vegetable prices are soaring in the market.

**Conclusion:**

I. Vegetables are becoming a rare commodity.

II. People cannot eat vegetables.

Choose the correct option.

a) Only conclusion II follows

b) Only conclusion I follows

c) Neither conclusion I nor II follows

d) Both conclusions I and II follow

Answer: C

11. Select the number that will come next in the following series.

19, 40, 163, 983, ?

a) 6973

b) 7781

c) 6793

d) 7871

Answer: D

$$19 \times 2 + 2 = 40$$

$$40 \times 4 + 3 = 163$$

$$163 \times 6 + 5 = 983$$

$$983 \times 8 + 7 = \mathbf{7871}$$

12. An assertion (A) and a reason (R) are given below.

**Assertion (A):** A ship rises as it enters the sea from a river.

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**Reason (R):** The density of sea water is higher as compared to river water.

Choose the correct option.

- a) A is true but R is false.
- b) A is false but R is true.
- c) A and R both are true and R is the correct explanation of A.
- d) A and R both are true and R is not the correct explanation of A.

Answer: C

13. Three of the following four sets are related in a certain way and one is different from the rest. Select the odd one out.

- a) (9, 4, 665)
- b) (14, 67, 938)
- c) (11, 23, 802)
- d) (6, 14, 20)

Answer: B

- a) (9, 4, 665) → (9, 4,  $9^3 - 4^2$ )
- b) (14, 67, 938) → (14, 67,  $14^3 - 67^2 = 1745 \neq 938$ )**
- c) (11, 23, 802) → (11, 23,  $11^3 - 23^2$ )
- d) (6, 14, 20) → (6, 14,  $6^3 - 14^2$ )

14. In a certain language, TOOK is written as 61, CAN is written as 18, then how will GUAVA be written as in that code?

- a) 52
- b) 54
- c) 62
- d) 57

Answer: A

$$\text{TOOK} = 20 + 15 + 15 + 11 = 61$$

$$\text{CAN} = 3 + 1 + 14 = 18$$

Similarly,

$$\text{GUAVA} = 7 + 21 + 1 + 22 + 1 = 52$$

15. Based on the analogy given, find the missing word from the given options.

22 April : Earth Day :: 25 December : ?

- a) Environment Day
- b) Teacher's Day
- c) Good Governance Day
- d) Technology Day

Answer: C

16. Four pairs of words are given below out of which three are alike in some manner and one is different.

Select the one which is different from the rest.

- a) Buy - Bought
- b) Catch - Caught
- c) Freeze - Frozen
- d) Drink - Drank

Answer: C

Verb – Past Participle

Drink – Drank → Verb – Past Simple

17. If '+' represents 'x', '-' represents '+', 'X' represents '÷', 'x' represents '-', then find out the answer to the following expression.

$$8 - 4 \times 2 + 6 = ?$$

- a) 10
- b) 12
- c) 20
- d) 18

Answer: C

+	-	×	÷
×	+	÷	-

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$8 - 4 \times 2 + 6 = ?$

After replacing the symbols, we get:

$= 8 + 4 \div 2 \times 6$

$= 8 + 12$

$= 20$

18. An assertion (A) and a reason (R) are given below.

**Assertion (A):** Clothes are not washed properly in hot water.

**Reason (R):** Hard water contains many minerals.

Choose the correct option.

- a) A and R both are true and R is the correct explanation of A.
- b) A and R both are true and R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

Answer: B

19. If 'Few man are cute' is written as "\$@\*&", 'Good bad cute' is written as "\*\*#%", and 'Good man are bad' is written as '%&#\$', then how is 'cute' written in the code?

- a) \$
- b) %
- c) \*
- d) #

Answer: C

Word	Code
FEW	@
MAN	\$
GOOD	%
BAD	#
CUTE	*

ARE	&
-----	---

20. Find the wrong term in the series.

2, 3, 5, 7, 9, 13

- a) 5
- b) 7
- c) 9
- d) 13

Answer: C

Prime number series.

In place of 9 it should be 11.

21. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

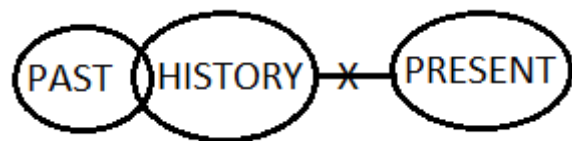
**Statements:**

- I. No history is present.
- II. Some past is history.

**Conclusions:**

- I. All history is past.
  - II. Some present is not past.
- a) Only conclusion II follows
  - b) Only conclusion I follows
  - c) Either conclusion I or II follows
  - d) None follows

Answer: D



- I. All history is past. - False
- II. Some present is not past. - False

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22. Complete the series.

JO, LM, PI, VC, ?

- a) DU
- b) BV
- c) UD
- d) VB

Answer: A

$$J + 2 = L; L + 4 = P; P + 6 = V; V + 8 = D$$

$$O - 2 = M; M - 4 = I; I - 6 = C; C - 8 = U$$

23. Based on the analogy given, find the missing number from the given options.

$$2345 : 196 :: 6492 : ?$$

- a) 169
- b) 484
- c) 441
- d) 121

Answer: C

$$2345 : 196 \rightarrow (2 + 3 + 4 + 5)^2$$

$$\Rightarrow 14^2 = 196$$

Similarly,

$$6493 \rightarrow (6 + 4 + 9 + 2)^2$$

$$\Rightarrow 21^2 = 441$$

24. Which two signs should be interchanged to make the given equation correct?

$$6 - 2 \times 4 \div 10 + 5 = 6$$

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

Answer: B

$$6 \div 2 \times 4 \div 10 + 5 = 6$$

$$6 - 2 \times 4 \div 10 + 5 = 6$$

After replacing the symbols, we get:

$$= 6 - 2 \div 4 \times 10 + 5$$

$$= 6 - 5 + 5$$

$$= 6$$

25. A statement followed by two arguments is given below.

**Statement:**

Should octroi duty be abolished?

**Arguments:**

I. Yes. It will eliminate an important source of corruption.

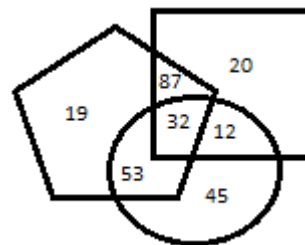
II. No. It will adversely affect government revenues.

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

Answer: C

**Directions (26 – 29):** Read the given data and answer the questions based on it.

If pentagon represents economics students, square represents chemistry students and circle represents history students, then

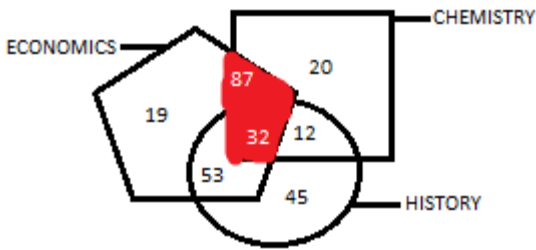


26. How many students study both economics and chemistry?

- a) 87
- b) 32
- c) 129
- d) 119

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Answer: D

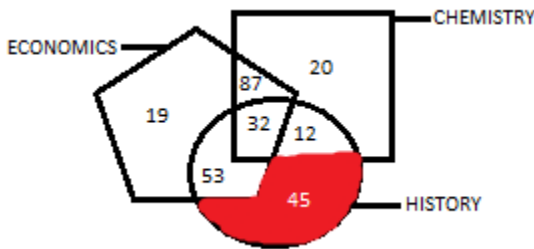


$87 + 32 = 119$

27. How many students study only history?

- a) 142
- b) 53
- c) 45
- d) 44

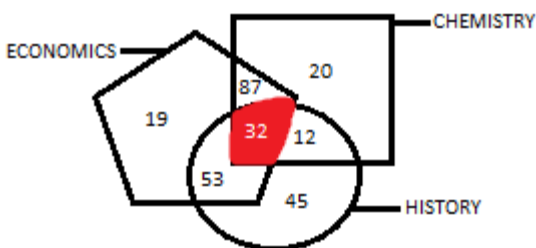
Answer: C



28. How many students study all the three subjects?

- a) 119
- b) 44
- c) 85
- d) 32

Answer: D



29. Which of the following letter clusters follows the pattern 4, 5, 7.

- a) FJOW

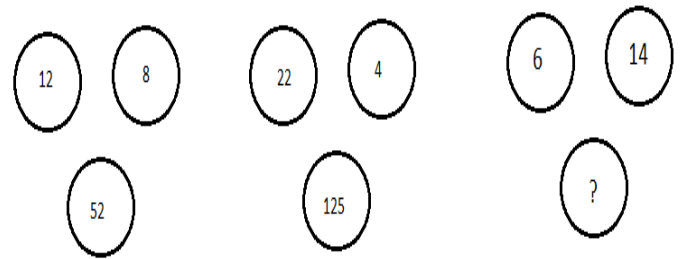
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- b) DHMT
- c) TXCK
- d) GJOV

Answer: B

b) DHMT  $\rightarrow D + 4 = H; H + 5 = M; M + 7 = T$

30. Select the number from the options given below that will replace the '?' in the following figure.



- a) 49
- b) 58
- c) 67
- d) 56

Answer: B

$(12^2 + 8^2) \div 4 = 52$

$(22^2 + 4^2) \div 4 = 125$

Similarly,

$(6^2 + 14^2) \div 4 = 58$

**Mathematics**

1.  $\cot(A + B) \cdot \cot(A - B) = 1$ . Find the value of  $\cot(2A/3)$ .

- a)  $\sqrt{3}$
- b)  $1/\sqrt{3}$
- c)  $\sqrt{2}$
- d)  $1/\sqrt{2}$

Answer: A

$\cot(A + B) \times \cot(A - B) = 1$

$\cot(A + B) = 1/\cot(A - B)$

$\cot(A + B) = \tan(A - B)$

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$$\cot(A + B) = \cot(90^\circ - A + B)$$

$$A + B = 90^\circ - A + B$$

$$A + B + A - B = 90^\circ$$

$$2A = 90^\circ$$

$$A = 90^\circ/2$$

$$A = 45^\circ$$

$$\cot(2A/3) = \cot(2 \times 45^\circ/3) = \cot(2 \times 15^\circ) = \cot 30^\circ =$$

$$\sqrt{3}$$

2. A pentagon of five angles is  $105^\circ$ ,  $75^\circ$ ,  $130^\circ$ ,  $25^\circ$  and  $x^\circ$ . Find the angle  $x$ .

a)  $105^\circ$

b)  $26^\circ$

c)  $205^\circ$

d)  $25^\circ$

Answer: C

$$\text{Internal angle} = (2n - 4) \times 90^\circ = (2 \times 5 - 4) \times 90^\circ$$

$$= (10 - 4) \times 90^\circ$$

$$= 6 \times 90^\circ$$

$$= 540^\circ$$

$$\text{Sum of internal angle of pentagon} = 540^\circ$$

$$105^\circ + 75^\circ + 130^\circ + 25^\circ + x^\circ = 540^\circ$$

$$335^\circ + x^\circ = 540^\circ$$

$$x^\circ = 540^\circ - 335^\circ$$

$$x^\circ = 205^\circ$$

3. How many squares of 7 cm is form by area of 49 cm  $\times$  25 cm?

a) 12

b) 25

c) 7

d) 49

Answer: B

$$\text{No. of square tiles} = (49 \times 25) / (7 \times 7) = 25$$

4. Product of two numbers is 36 and difference is 5.

Find the numbers.

a) 8 and 12

b) 5 and 7

c) 4 and 8

d) 9 and 4

Answer: D

Let the two numbers be  $x$  and  $y$ .

According to the question,

$$xy = 36$$

$$x - y = 5 \dots (i)$$

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

$$5^2 = x^2 + y^2 - 2 \times 36$$

$$25 = x^2 + y^2 - 72$$

$$x^2 + y^2 = 25 + 72$$

$$x^2 + y^2 = 97$$

$$(x + y)^2 = x^2 + y^2 + 2xy$$

$$(x + y)^2 = 97 + 2 \times 36$$

$$(x + y)^2 = 97 + 72$$

$$(x + y)^2 = 169$$

$$x + y = 13 \dots (ii)$$

On equating equ (i) and (ii),

$$2x = 18$$

$$x = 18/2$$

$$x = 9$$

$$\text{And } y = 4$$

5. A person covers a half distance with a speed of 7 kmph and half distance with a speed of 6 kmph. Total time is 13 hour. Find the distance.

a) 84 km

b) 42 km

c) 47 km

d) 50 km

Answer: A

$$\text{Distance} = \text{Speed} \times \text{Time}$$

$$D/2 = (7 \times 6) / (7 + 6) \times 13$$



## RRB NTPC Memory Based Model Paper Based on Feb 10 Exam

$$D/2 = 42/13 \times 13$$

$$D/2 = 42$$

$$D = 2 \times 42$$

$$D = 84 \text{ km}$$

6. Height and base of triangle is 6 cm and 15 cm. Find the area.

a)  $40 \text{ cm}^2$

b)  $45 \text{ cm}^2$

c)  $15 \text{ cm}^2$

d)  $30 \text{ cm}^2$

Answer: B

$$\text{Area} = \frac{1}{2} \times \text{base} \times \text{height}$$

$$= \frac{1}{2} \times 15 \times 6$$

$$= 15 \times 3$$

$$= 45 \text{ cm}^2$$

7. The angle formed by the page of an open book is?

a) Right angle triangle

b) Obtuse angle

c) Acute angle

d) Straight line

Answer: B

8. Find the value of  $\sqrt{15}$ .

a) 3

b) 4

c) 4.5

d) 3.87

Answer: D

$$\sqrt{15} = 3.87$$

9. 6, 4, 0 is 3 digit number. Find the sum of 6 digit largest and smallest number when all the three numbers repeated twice.

a) 6406400

b) 564089

c) 1064866

d) 106470

Answer: C

$$6 \text{ digit largest number} = 664400$$

$$6 \text{ digit smallest number} = 400466$$

$$\text{Sum} = 664400 + 400466 = 1064866$$

10.  $\sqrt{2} \times \sin(5x - 5^\circ) = \tan 45^\circ$ . Find the value of x.

a)  $10^\circ$

b)  $15^\circ$

c)  $20^\circ$

d)  $30^\circ$

Answer: A

$$\sqrt{2} \times \sin(5x - 5^\circ) = \tan 45^\circ$$

$$\sqrt{2} \times \sin(5x - 5^\circ) = 1$$

$$\sin(5x - 5^\circ) = 1/\sqrt{2}$$

$$(5x - 5^\circ) = \sin^{-1}(1/\sqrt{2})$$

$$(5x - 5^\circ) = 45^\circ$$

$$5x = 45^\circ + 5^\circ$$

$$5x = 50^\circ$$

$$x = 50^\circ/5$$

$$x = 10^\circ$$

11. Find the sum of square of numbers from 3 to 18.

a) 2110

b) 2109

c) 2104

d) 2111

Answer: C

$$\sum n^2 = [n \times (n + 1) \times (2n + 1)]/6$$

$$= (1 \text{ to } 18) - (1 \text{ to } 2)$$

$$= [18 \times 19 \times 37]/6 - [2 \times 3 \times 5]/6$$

$$= 3 \times 19 \times 37 - 5$$

$$= 2109 - 5$$

$$= 2104$$

12. A person A travels a distance with speed of 8 kmph and another person B travels a distance with a speed of

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6 kmph. Difference of their time is 40 min. Find the distance.

- a) 14 km
- b) 16 km
- c) 18 km
- d) 20 km

Answer: B

Distance = Speed  $\times$  Time

$$= (8 \times 6) / (8 - 6) \times 40/60$$

$$= 48/2 \times 4/6$$

$$= 16 \text{ km}$$

13. LCM is 26 times of HCF. Sum of LCM and HCF is 729. First number is 81. Find the second number.

- a) 270
- b) 268
- c) 255
- d) 234

Answer: D

According to the question,

$$\text{LCM} = 26 \times \text{HCF}$$

$$\text{LCM} + \text{HCF} = 729$$

$$26 \times \text{HCF} + \text{HCF} = 729$$

$$27 \times \text{HCF} = 729$$

$$\text{HCF} = 729/27$$

$$\text{HCF} = 27$$

$$\text{LCM} = 26 \times 27$$

$$\text{LCM} \times \text{HCF} = \text{First Number} \times \text{Second Number}$$

$$26 \times 27 \times 27 = 81 \times \text{Second Number}$$

$$\text{Second Number} = 234$$

14. HCF is 29 and factors of LCM are 13 and 17. Find the smallest number.

- a) 359
- b) 377
- c) 1317

d) 1713

Answer: B

$$\text{Smallest number} = 13 \times 29 = 377$$

15.  $A + B + C = 8$ . Find the maximum value of A, if B and  $C > 0$ .

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

Answer: B

$$A + B + C = 8$$

To find maximum value of A, B and C should be minimum i.e. 1

$$A_{\text{max}} + 1 + 1 = 8$$

$$A_{\text{max}} + 2 = 8$$

$$A_{\text{max}} = 8 - 2$$

$$A_{\text{max}} = 6$$

16. Area of equilateral triangle is  $49\sqrt{3} \text{ cm}^2$ . Find the side.

- a) 12 cm
- b) 14 cm
- c) 16 cm
- d) 20 cm

Answer: B

$$\text{Area of equilateral triangle} = 49\sqrt{3} \text{ cm}^2$$

$$\sqrt{3}a^2/4 = 49\sqrt{3}$$

$$a^2 = 49 \times 4$$

$$a = 7 \times 2$$

$$a = 14 \text{ cm}$$

17. Find the unit digit of  $91 \times 92 \times 93 \dots \times 99$ .

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

## RRB NTPC Memory Based Model Paper Based on Feb 10 Exam

Answer: A

Unit digit of  $91 \times 92 \times 93 \dots \times 99 = 0$

18. What should be subtracted from ratio 17 : 21 so that ratio is 7 : 9?

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

Answer: C

$$17 - x : 21 - x = 7 : 9$$

$$9 \times (17 - x) = 7 \times (21 - x)$$

$$9 \times 17 - 9x = 7 \times 21 - 7x$$

$$153 - 9x = 147 - 7x$$

$$153 - 147 = 9x - 7x$$

$$6 = 2x$$

$$x = 6/2$$

$$x = 3$$

19.  $x : y$  is 4 : 5,  $y : z$  is 5 : 7 and  $z : w$  is 7 : 9. Find  $x : w$ .

- a) 5 : 7
- b) 4 : 5
- c) 4 : 4
- d) 4 : 9

Answer: D

$$x : y = 4 : 5, y : z = 5 : 7, z : w = 7 : 9$$

$$\text{so, } x : w = 4 : 9$$

20. The earth revolves around the sun in 24 hour. Find the degree in 5 hour 24 minute.

- a)  $81^\circ$
- b)  $61^\circ$
- c)  $51^\circ$
- d)  $41^\circ$

Answer: A

$$24 \text{ hour} = 360^\circ$$

$$1 \text{ hour} = 360^\circ/24$$

$$5 \text{ hour } 24 \text{ minute} = 5 (24 / 60) = 5 (2 / 5) = 27/5 \times 360^\circ/24 = 81^\circ$$

21.  $\cos 2A = \frac{1}{2}$ . Find the value of  $\sin (75^\circ - A)$ .

- a)  $1/2$
- b) 0
- c) 1
- d)  $1/\sqrt{2}$

Answer: D

$$\cos 2A = \frac{1}{2}$$

$$2A = 60^\circ$$

$$A = 60^\circ/2$$

$$A = 30^\circ$$

$$\sin (75^\circ - 30^\circ) = \sin 45^\circ = 1/\sqrt{2}$$

22. Principal is  $6/5$  times of principal in 4 years. Find the rate of interest.

- a) 5%
- b) 6%
- c) 7%
- d) 8%

Answer: A

$$\text{Rate} = (n - 1)/T \times 100$$

$$= (6/5 - 1)/4 \times 100$$

$$= 100/20$$

$$= 5\%$$

23. Find the HCF of 420, 475 and 495.

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

Answer: D

$$\text{HCF} = 420, 475 \text{ and } 495 = 5$$

24. Sum of two angles is  $155^\circ$  and difference is  $\pi/2$ . Find the largest angle.

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a)  $39\pi/72$

b)  $49\pi/46$

c)  $49\pi/72$

d)  $49\pi/36$

Answer: C

According to the question,

$$A + B = 155^\circ \times \pi/180^\circ = 31\pi/36$$

$$A - B = \pi/2$$

$$2A = 31\pi/36 + \pi/2$$

$$2A = (31\pi + 18\pi)/36$$

$$2A = 49\pi/36$$

$$A = 49\pi/72$$

25. A ratio of boys and girls in school of 500 students is 7 : 3. 120 extra girls join the school. Find the new ratio.

a) 27 : 5

b) 35 : 3

c) 5 : 3

d) 35 : 27

Answer: D

$$7x + 3x = 500$$

$$10x = 500$$

$$x = 500/10$$

$$x = 50$$

$$\text{Boys} = 7x = 7 \times 50 = 350$$

$$\text{Girls} = 3x = 3 \times 50 = 150$$

$$\text{New ratio of boys and girls} = 350 : (150 + 120) = 350 : 270$$

$$= 35 : 27$$

26. A sofa was sold for Rs.21250 after giving 15% discount. What was the marked price of the sofa?

a) Rs.28000

b) Rs.15000

c) Rs.25000

d) Rs.20000

Answer: C

$$\text{Discount} = (MP - SP)/MP \times 100$$

$$15 = (1 - SP/MP) \times 100$$

$$15/100 = (1 - SP/MP)$$

$$3/20 = (1 - 21250/MP)$$

$$1 - 3/20 = 21250/MP$$

$$17/20 = 21250/MP$$

$$\text{Marked Price} = 25000$$

27. How many numbers from 1 to 100 which is divisible by 3 and 4?

a) 4

b) 6

c) 8

d) 10

Answer: C

$$\text{LCM of 3 and 4} = 12$$

$$100/12 = 8$$

28. Calculate compound interest on Rs. 25000/- for 3 year at the rate of 12%.

a) Rs. 10002.5/-

b) Rs. 10123.2/-

c) Rs. 10202.5/-

d) Rs. 11502.5/-

Answer: B

$$CI = 25000 \times (1 + 12/100)^3 - 25000$$

$$= 25000 \times (1 + 3/25)^3 - 25000$$

$$= 25000 \times (28/25)^3 - 25000$$

$$= 25000 \times (21952/15625 - 1)$$

$$= 25000 \times 6327/15625$$

$$= 10123.2/-$$

29. Find the median of 1, 5, 4, 8 and 12.

a) 1

b) 5

c) 4

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d) 12

Answer: B

1, 4, 5, 8, 12

Median = 5

30. Cost price of 120 gram article is equal to selling price of 150 gram article. Find the profit or loss percent.

a) 15%

b) 20%

c) 25%

d) 30%

Answer: B

According to the article,

$$120 \times CP = 150 \times SP$$

$$SP/CP = 120/150 = 4/5$$

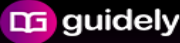
$$\text{Loss\%} = (CP - SP)/CP \times 100$$

$$= (1 - SP/CP) \times 100$$

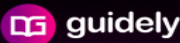
$$= (1 - 4/5) \times 100$$

$$= 100/5$$

$$= 20\%$$



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