

PART—I

(GENERAL STUDIES) For Class 9 and 10

1. 10 years ago the ratio of ages of Ramesh and Rajeev was 1 : 3. 5 years hence this ratio will become 2 : 3. What is the ratio of their ages at present?
(A) 2 : 5
(B) 3 : 5
(C) 1 : 2
(D) More than one of the above
(E) None of the above
2. If I walk with a speed of 5 km per hour from my house to the station, my train would have left the station 7 minutes before my arrival. But, if I walk with a speed of 6 km per hour, I will reach the station 5 minutes before the departure of my train. Accordingly, what is the distance between my house and the station?
(A) 7 km
(B) 6.5 km
(C) 6 km
(D) More than one of the above
(E) None of the above
3. The average monthly income of P and Q is ₹ 5,050. The average monthly income of Q and R is ₹ 6,250 and the average monthly income of P and R is ₹ 5,200. The monthly income of P is
(A) ₹ 3,500
(B) ₹ 4,050
(C) ₹ 4,000
(D) More than one of the above
(E) None of the above
4. If 30% of P is added to 40% of Q , it becomes 80% of Q . Accordingly, what is the percentage of Q with respect to P ?
(A) 40%
(B) 50%
(C) 75%
(D) More than one of the above
(E) None of the above
5. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets ₹ 1,000 more than D , what is B 's share?
(A) ₹ 500
(B) ₹ 1,500
(C) ₹ 2,000
(D) More than one of the above
(E) None of the above



6. A shopkeeper gives a discount of 5% on the selling price of a watch. If he gives a discount of 6%, he will earn a profit which is ₹ 15 less than the before. Accordingly, what is the marked selling price of that watch?
- (A) ₹ 1,400
(B) ₹ 1,500
(C) ₹ 1,800
(D) More than one of the above
(E) None of the above
7. Three numbers are in the ratio 3 : 4 : 5. The total of the largest and the smallest numbers is equal to the other number plus 52. Accordingly, which is the smallest number?
- (A) 27
(B) 39
(C) 52
(D) More than one of the above
(E) None of the above
8. If $2^{2n-1} = \frac{1}{8^{n-3}}$, then the value of n is
- (A) 3
(B) 2
(C) - 2
(D) More than one of the above
(E) None of the above
9. Which of the following photo-electric devices is the most suitable for digital applications?
- (A) Photo-voltaic cell
(B) Photo-emissive cell
(C) Photo-diode
(D) More than one of the above
(E) None of the above
10. The critical mass of a fissionable material is
- (A) one kilogram equivalent
(B) the minimum mass needed for chain reaction
(C) the rest mass equivalent to 10^{10} joules
(D) More than one of the above
(E) None of the above
11. Which of the following gases is used to force the ripening of fruits?
- (A) Ethane
(B) Ethylene
(C) Methylene
(D) More than one of the above
(E) None of the above
12. Which one of the following has zero octane number?
- (A) Iso-octane
(B) Neo-octane
(C) n -octane
(D) More than one of the above
(E) None of the above



- 13.** The edible part of Litchis is
(A) aril
(B) thalamus
(C) seed coat
(D) More than one of the above
(E) None of the above
- 14.** The physical process involved in the release of molecular oxygen from leaves is
(A) diffusion
(B) transpiration
(C) osmosis
(D) More than one of the above
(E) None of the above
- 15.** The process of finding the relative location of genes on a chromosome is called
(A) genome walking
(B) chromosome walking
(C) gene mapping
(D) More than one of the above
(E) None of the above
- 16.** Spore mother cell in bryophytes is
(A) haploid
(B) diploid
(C) triploid
(D) More than one of the above
(E) None of the above
- 17.** In which year was NGT (National Green Tribunal) for protection of environment and forest established by the Government of India?
(A) 2010
(B) 2011
(C) 2012
(D) More than one of the above
(E) None of the above
- 18.** Which city of India started first under-water metro?
(A) Kochi
(B) Visakhapatnam
(C) Bengaluru
(D) More than one of the above
(E) None of the above
- 19.** Under India's G20 Presidency, where was the Tourism Working Group Meeting held?
(A) Patna (Bihar)
(B) Srinagar (Jammu and Kashmir)
(C) Ramnagar (Uttarakhand)
(D) More than one of the above
(E) None of the above
- 20.** Who among the following got the Silver Medal in the National Under-17 Girls Wrestling Championship?
(A) Liza Tomar
(B) Nirjala
(C) Pushpa Yadav
(D) More than one of the above
(E) None of the above



21. Who won the International Booker Prize, 2022 for the novel, *Tomb of Sand*?

- (A) Geetanjali Shree and Daisy Rockwell
- (B) David Diop and Anna Moschovakis
- (C) Marilyn Booth and Jokha Alharthi
- (D) More than one of the above
- (E) None of the above

22. Who was the Chief Guest on India's 74th Republic Day?

- (A) Mohammed bin Salman
- (B) Abdel Fattah El-Sisi
- (C) Sheikh Mohammed bin Rashid Al Maktoum
- (D) More than one of the above
- (E) None of the above

23. In which district of Bihar, the first floating solar power plant has been built?

- (A) Darbhanga
- (B) West Champaran
- (C) Madhubani
- (D) More than one of the above
- (E) None of the above

24. Which of the following has got GI Tag in Bihar?

- (A) Maghai Paan
- (B) Basmati Rice
- (C) Chanderi Saree
- (D) More than one of the above
- (E) None of the above

25. Match List-I with List-II :

List-I

List-II

- | | |
|-----------|------------------|
| a. Char | 1. Punjab plain |
| b. Kankar | 2. Delta |
| c. Kayal | 3. Bangar |
| d. Mand | 4. Coastal plain |

Select the correct answer using the codes given below.

(A) a b c d
1 4 2 3

(B) a b c d
2 3 4 1

(C) a b c d
3 1 4 2

(D) More than one of the above

(E) None of the above

26. Which of the following tributaries does **not** join Brahmaputra river from north?

(A) Subansiri

(B) Belsiri

(C) Manas

(D) More than one of the above

(E) None of the above

27. Likhapani glacier is located in which State of India?

- (A) Arunachal Pradesh
- (B) Himachal Pradesh
- (C) Sikkim
- (D) More than one of the above
- (E) None of the above

28. Magadha and Anga plains are parts of

- (A) upper Ganga plain
- (B) middle Ganga plain
- (C) lower Ganga plain
- (D) More than one of the above
- (E) None of the above

29. Which of the following pairs of waterfalls and rivers is **not** correctly matched?

- (A) Jog—Sharavati
- (B) Kapildhara—Kaveri
- (C) Dhuandhar—Godavari
- (D) More than one of the above
- (E) None of the above

30. Arrange the following seaports of India from north to south :

1. Kakinada
2. Machilipatnam
3. Nagapattinam
4. Visakhapatnam

Select the correct answer using the codes given below.

- (A) 1, 2, 3, 4
- (B) 4, 1, 2, 3
- (C) 1, 3, 2, 4
- (D) More than one of the above
- (E) None of the above

31. The Agreement of Kosi Irrigation and Hydroelectricity Plan in 1954 was signed between which two countries?

- (A) India and Bangladesh
- (B) India and China
- (C) India and Nepal
- (D) More than one of the above
- (E) None of the above

32. In which climatic division does Bihar fall as per R. L. Singh's classification scheme?

- (A) Humid south-east
- (B) Subhumid transitional
- (C) Subhumid continental
- (D) More than one of the above
- (E) None of the above

- 33.** In which Session of the Indian National Congress was the resolution of 'Purna Swaraj' adopted?
- (A) Kanpur Session, 1925
(B) Lahore Session, 1929
(C) Karachi Session, 1931
(D) More than one of the above
(E) None of the above
- 34.** What was an initial objective of 'Kuka Movement' in Punjab?
- (A) To purify the Sikh religion
(B) To gain political power in Punjab
(C) Organization of peasant movement
(D) More than one of the above
(E) None of the above
- 35.** Who described the Revolt of 1857 as the 'First Indian War of Independence'?
- (A) V. D. Savarkar
(B) Bal Gangadhar Tilak
(C) Bipin Chandra Pal
(D) More than one of the above
(E) None of the above
- 36.** Where was the first instance of organized non-cooperation in the history of Indian peasantry held?
- (A) Bihar and Bengal
(B) Madras Presidency
(C) Punjab Province
(D) More than one of the above
(E) None of the above
- 37.** Which portfolio did Dr. Rajendra Prasad hold during the Interim Government of 1946?
- (A) Defence
(B) Home
(C) Food and Agriculture
(D) More than one of the above
(E) None of the above
- 38.** Who among the following particularly urged Gandhiji to visit Champaran to witness the miseries of the Ryots?
- (A) Brijkishore Prasad
(B) Rajkumar Shukla
(C) Sukhram Ganesh
(D) More than one of the above
(E) None of the above
- 39.** The 'Day of Deliverance' was observed by the Muslim League on which date?
- (A) 22nd December, 1939
(B) 17th October, 1939
(C) 22nd December, 1940
(D) More than one of the above
(E) None of the above
- 40.** Who laid the foundation stone of National College and Bihar Vidyapeeth?
- (A) Dr. Rajendra Prasad
(B) Maulana Abdul Bari
(C) Mahatma Gandhi
(D) More than one of the above
(E) None of the above