

INDIAN INSTITUTE OF TECHNOLOGY ROPAR
WRITTEN EXAMINATION
JUNIOR ASSISTANT

Date of the Examination: 21/10/2023

PART - A

Maximum Marks: 40

Time: 60 Minutes

Name of Candidate: _____

Roll No.: _____

INSTRUCTIONS TO CANDIDATES

1. This question paper (Part – A) has 40 questions. Each question carries one mark. There are four choices for answer (A, B, C, D) to each question. Choose the correct answer (one only) for each question and mark it on the Optical Response Sheet (**ORS**).
2. Read the instructions given in the ORS sheet carefully.
3. Use a Black/Blue ball point pen only to fill the ORS Sheet.
4. The candidate should check that the booklet does not have any unprinted or torn or missing pages or questions etc. If so, get it replaced with another question paper.
5. While marking your answer on the ORS Sheet fully darken the circle.
6. One (1) mark will be awarded for each correct answer and each incorrect answer and unanswered questions will not attract marks. There is no negative marking.
7. Return the ORS Sheet and the question paper to the invigilator after the examination is over.
8. Mobile, Electronic Watch and other Electronic Gadgets are prohibited in the examination.
9. Use of Unfair Means in Examination will lead to cancellation of candidature.

Signature of the candidate: _____

Good Luck

1. In the following sentence, identify the segment which contains the grammatical error.

Unless you prepare well, you will not get a first class.

- A. No error
- B. a first class
- C. Unless you prepare well
- D. you will not get

2. In this question, a part of the sentence is in bold. Choose the correct alternative to bold part of the sentence from the given choices.

When the party ended, the band **pack up** its equipment and left.

- A. will pack up
- B. will have packed up
- C. packed up
- D. No improvement

3. Select the most appropriate option to improve the underlined segment in the given sentence.

I am really looking forward to meet you.

- A. to meeting you
- B. to have met you
- C. to be meeting you
- D. No improvement

4. In this question, the sentence has been given in Active/Passive voice. From the given alternative, choose the one which best expresses the given sentence in Passive/Active voice.

We found the lock broken last night.

- A. The lock was found by us breaking last night.
- B. The lock was found by us broken last night.
- C. The lock was broken by us last night.
- D. The broken lock we found last night.

5. In this question, the sentence has been given in Direct/Indirect speech. From the given alternative, choose the one which best expresses the given sentence in Indirect/Direct speech.

He said, "I have passed the examination."

- A. He said that he had passed the examination.
- B. He announced that he has passed the examination.
- C. He said that he had to pass the examination.
- D. He said that he has passed the examination

6. In the following question, out of the given alternative, choose the one which is nearest in meaning to the italicized bold part of the sentence.

He is ***averse*** to the idea of holding elections now.

- A. Convinced
- B. angry
- C. opposed
- D. indifferent

7. In the following question, choose one alternative which is opposite in meaning to the given word.

Comply

- A. Refuse
- B. Agree
- C. Disagree
- D. Deny

8. The following sentence has a blank space and please fill the blank with the appropriate word.

Some people in Punjab _____ from voting at the last elections.

- A. Refused B. refrained C. denied D. abstained

9. In the following question, a part of the sentence is printed in bold. With the given alternatives, please improve the sentence.

We saw one tiger **approached to us**.

- A. approaching to us B. approaching towards us
C. approaching us D. No improvement

10. At which place in Bengal did the Mughal Emperor grant the permission to East India Company to trade and set up its factories in 1651.

- A. Calcutta B. Qasim Bazar C. Saingar D. Burdwan

11. Among the following, which statement is not correct?

- A. Madhya Pradesh has maximum forest area.
B. Arunachal Pradesh has maximum dense forest area.
C. Nagaland is the most forest covered state of India.
D. Haryana is the least forest covered state of India.

12. Which of the following appointments is not made by the President of India?

- A. Speaker of Lok Sabha
B. Chief Justice of India
C. Chief of Air Staff
D. Chief of Army

13. A pressure cooker works on the principle of?

- A. Elevation of boiling point of water by application of pressure.
B. Making food grains softer by application of pressure.
C. Making the food grains softer by application of pressure and temperature.
D. Keeping the food grains inside steam for longer time.

14. Nobel Prizes are distributed annually at?

- A. Manila
B. New York
C. Stockholm
D. Geneva

15. Who was called the Father of the Indian Unrest by the British?

- A. MK Gandhi
B. BG Tilak
C. Motilal Nehru
D. Bhagat Singh

A. RBI B. CII C. FICCI D. BSE

A. Mary Kom B. Mirabai Chanu C. P V Sindhu D. Sania Mirza

A. IISc Bengaluru B. IIT Madras C. IIT Delhi D. NIT Tiruchirappalli

A. Ministry of Defence
B. Ministry of Home Affairs
C. Ministry of External Affairs
D. Ministry of Youth Affairs and Sports

21. Ajay invested ₹ 5000 in scheme A which gives simple interest at the rate of 5% per year, for 2 years. After 2 years he deposited the amount received from scheme A in scheme B which gives compound interest at the rate 10% per year, for 2 years. What amount will he get finally?

22. What will come in place of question mark. 8 1 74 88 67 ? 60

23. Population of a town in 2021 was 8000. It increased by 15% in 2022 and decreased by 25% in 2023. If so what is the population in 2023?

24. A started a business by investing ₹40,000. After 3 months B joined by investing ₹20,000. Again after 3 more months C joined by investing ₹50,000. After one year they got a profit of ₹9,600. What amount will B receive as his share from the profit?

25. Cost of 8 oranges and 6 apples is ₹150. Then what is cost of 12 oranges and 9 apples?

(A) ₹200 (B) ₹175 (C) ₹225 (D) ₹230

26. In a class of 120 students 60% of students passed in Physics and 80% students passed in Mathematics. Then how many students passed in only Mathematics and not in Physics.
- (A) 48 (B) 40 (C) 32 (D) 60
27. Present ages of two persons A and B are in the ratio 4: 5. Before 5 years their ages were in the ratio 7 : 9. What is age of B after 4 years?
- (A) 52 (B) 54 (C) 48 (D) 45
28. A running train crossed a man standing on the side of the track in 3 seconds and a platform of length 40 metre in 4 seconds. Then what is the length of the train?
- (A) 150 metre (B) 140 metre (C) 120 metre (D) 110 metre
29. The respective ratio of cost prices of articles A and B is 7 : 9. Article A was sold at a profit of 40% and article B was sold at a profit of 10 %. The total profit earned from the sale is ₹222. What is the cost price of A.
- (A) ₹320 (B) ₹400 (C) ₹480 (D) ₹420
30. A boat goes a certain distance upstream and downstream in 10 hours. The speed of the boat is 10km/hr and the speed of the stream is 4 km/hr. Then what is the distance.
- (A) 26 KM (B) 34KM (C) 40KM (D) 42 KM
31. How many such pairs of letters are there in the word CURVATURE each of which has as many letters between its two letters in the word as there are between them in the English alphabet.
- (A) 5 (B) 4 (C) 3 (D) 2
32. KT is related to PY. Then DH is related to _____?
- (A) PQ (B) IM (C) UX (D) PY
33. In a certain code language CONICS is written as MNBTDJ. Then how is the word PRISON written in that code language
- (A) VWTXPR (B) HQOOPT (C) PRSQVW (D) DJKLPQ
34. Three of the following four are alike in a certain way. Which is the one that does not belong to the group?
- (A) 13 (B) 29 (C) 33 (D) 37

35. Kiran moves 8 metre to the east from P to reach Q then turnsto the left and reaches R after moving 7 metre. Then he turns to the right and movs 13 metre to reach S. Then he turns to his right and moves 7m to reach T. How far and in which direction is T from P.

(A) 20 metre, north

(B) 23 metre, south

(C) 21 metre, west

(D) 21 metre, east

36. A is husband of B, C is son of B, D is sister of C and F is son of D. How is F related to A?

(A) Nephew

(B) Brother

(C) Grandson

(D) data inadequate

37. If FINGER is coded as NEFRGI, then how is MARKET coded.

(A) REMTKA

(B) KMRATE

(C) EKRMTA

(D) MKREAT

38. Among Vikas, Kiran, Miya, Raju and Hari, Vikas is taller than Raju but shorter than Kiran who is not the tallest. Raju is not the shortest. Hari is shorter than Miya. Then who is the second shortest among them.

(A) Vikas

(B) Kiran

(C) Miya

(D) Raju

39. If B means multiplication, K means divison, P means addition, and R means subtraction, then $20 B 2 K 4 P 3 R 5 = ?$

(A) 25

(B) 8

(C) 20

(D) 10

40. How many letters are there in the word PUNJAB which are as far away from the begining of the word as when they are arranged in alphabetical order from left to right?

(A) One

(B) Two

(C) Three

(D) Zero

INDIAN INSTITUTE OF TECHNOLOGY ROPAR
ANSWER KEYS OF WRITTEN EXAMINATION
(PART-A)
JUNIOR ASSISTANT
HELD ON 21.10.2023

1.	A
2.	C
3.	A
4.	B
5.	A
6.	B
7.	A
8.	B
9.	C
10.	B
11.	C
12.	A
13.	A
14.	C
15.	B
16.	B
17.	C
18.	B
19.	B
20.	A
21.	C
22.	A
23.	B
24.	D
25.	C
26.	A
27.	B
28.	C
29.	D
30.	D
31.	A
32.	B
33.	B
34.	C
35.	D
36.	C
37.	A
38.	D
39.	B
40.	D