INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DESIGN AND MANUFACTURING, KANCHEEPURAM

Recruitment for the post of Junior Assistant

Written Test (Level 1: Objective Test)

Full Marks: 100 Time: 120 minutes

Important: Read the following instructions carefully before marking the answers in the OMR sheet provided to you separately.

Instructions to the candidates

1. This booklet contains 100 Objective Type Questions (MCQ). All the questions are compulsory.
2. **The correct answer for the MCQ will carry ONE mark each, and any wrong answer will have a negative mark of 0.25 each.**
3. The candidates have to choose the correct answer and mark the same in the answer sheet by colouring the bubble against the appropriate question number with a blue/black ball point pen. Any overwriting, viz. marking multiple answers will be considered a wrong answer. Therefore, the candidates should make sure the answer before marking the same in the answer sheet.
4. Candidates have to return the Question paper after the end of the examination.
5. No candidate will be allowed to leave the examination hall before the closing time of examination.
6. At the end of the examination, the OMR Sheet & Question Paper must be submitted to the Invigilator before leaving the examination hall.
7. Candidates may use the blank spaces available in the question booklet for rough work. No separate sheet will be provided for rough work.
8. Do not make any unwanted mark on the answer sheet. Doing so may lead to the cancellation of candidature.
9. Do not use any unfair means in the examination. This may lead to cancellation of candidature apart from legal action in accordance with law.

Signature of the Candidate	
Name of the Candidate	

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INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,
DESIGN AND MANUFACTURING KANCHEEPURAM
QUESTION PAPER FOR THE POST OF **JUNIOR ASSISTANT**

Total Questions: 100 Maximum Time: 120 Minutes

Read the following passage and answer **Questions 1 to 5**, based on the passage:

Climate change is emerging as one of the most significant challenges facing agriculture globally. Changes in temperature, precipitation patterns, and the frequency of extreme weather events are directly affecting crop productivity. In countries like India, where agriculture is heavily dependent on the monsoon, erratic rainfall patterns can lead to severe crop failures and food insecurity.

Small and marginal farmers are particularly vulnerable because they often lack access to modern technology, irrigation, and credit facilities. These farmers are usually dependent on single crops and cannot afford to invest in climate-resilient seeds or advanced irrigation techniques.

To combat these challenges, experts suggest adopting sustainable agricultural practices such as crop diversification, water conservation methods, and the use of technology-driven farming tools. Additionally, government policies should focus on educating farmers, improving infrastructure, and providing subsidies for adopting environment-friendly practices.

While the impact of climate change is undeniable, a coordinated effort involving policymakers, farmers, and researchers can mitigate its effects and help build a more resilient agricultural system.

1.	According to the passage, what is one of the major consequences of climate change on agriculture?			
	A	Increased food imports	B	Decline in literacy rates in rural areas
	C	Decrease in crop productivity	D	Urban migration of farmers

2.	Why are small and marginal farmers more vulnerable to climate change?			
	A	They overproduce crops	B	They have excess access to credit
	C	They rely on outdated farming techniques and lack resources	D	They use climate-resilient seeds

3.	What is one of the solutions mentioned in the passage to make agriculture more resilient?			
	A	Banning the use of fertilizers	B	Encouraging large-scale monoculture
	C	Promoting crop diversification	D	Reducing farm sizes

4.	How can the government help farmers tackle climate-related challenges, as per the passage?			
	A	By providing education and infrastructure support	B	By promoting urban employment
	C	By cutting agricultural subsidies	D	By increasing taxes on fertilizers

5. What is the overall tone of the passage towards the future of agriculture amid climate change?

A	Highly pessimistic	B	Hopeful with suggestions
C	Indifferent	D	Completely negative

6. Choose the word most similar in meaning to "Eloquent":

A	Silent	B	Aggressive
C	Well-spoken	D	None

7. Choose the word opposite in meaning to "Obscure":

A	Clear	B	Hidden
C	Ambiguous	D	None

8. Rearrange to form a meaningful sentence:
P. a good impression
Q. in order to
R. we must dress well
S. create

A	QRSP	B	RQSP
C	PRSQ	D	SRPQ

9. A person who knows everything is called:

A	Omnivore	B	Omnipresent
C	Omniscient	D	Omnipotent

10. Meaning of the idiom: "Burn the midnight oil"

A	Waste time	B	Sleep early
C	Burn something at night	D	Stay up late working

11. Choose the correct synonym of the word “Abundant”.

A	Plentiful	B	Meager
C	Insufficient	D	Scarce

12. Find the error in the sentence:
Neither of the students are willing to participate.

A	to participate	B	Neither
C	willing	D	are

13. Choose the correct preposition: *She is good ____ mathematics.*

A	in	B	at
C	on	D	for

14 Identify the sentence with correct subject-verb agreement:

A	Each of the players are ready	B	Each of the players is ready
C	Each of the players were ready	D	Each of the players have been ready

15 Select the most appropriate word to fill in the blank:
She has a ____ memory and can recall everything.

A	fragile	B	vulnerable
C	vivid	D	sensitive

16 Choose the correct meaning of the idiom: *"Break the ice"*

A	To start a conversation	B	To end a relationship
C	To cool down	D	To cause trouble

17 Fill in the blank with the correct form of the verb: *If I ____ you, I would apologize.*

A	am	B	was
C	be	D	were

18 Choose the correct synonym of "Benevolent".

A	Kind	B	Cruel
C	Selfish	D	Hostile

19 Choose the correct meaning of the phrase: *"Kick the bucket"*

A	To start a new project	B	To make a mistake
C	To celebrate	D	To die

20 Select the word closest in meaning to "Imminent".

A	Distant	B	Uncertain
C	Unlikely	D	About to happen

21 The CEO's __________ remarks alienated many employees who felt undervalued and dismissed.

A	Contemptuous	B	Jubilant
C	Empathetic	D	Measured

22 Identify the grammatically correct sentence:

A	Neither the employees nor the manager are happy with the decision.	B	The number of applicants have increased.
C	Everyone in the group were asked to submit their IDs.	D	Each of the participants was given a certificate.

23 Choose the option in which the word "flag" is used correctly:

A	He tried to flag the heavy suitcase across the platform.	B	After hours of walking, her energy began to flag.
C	The flag was flagged on the pole.	D	The player flagged his opponent during the match.

24 Choose the sentence where the word *"sanction"* is used in the sense of *approval*:

A	The government imposed sanctions on the country.	B	International sanctions damaged the economy.
C	The board gave its sanction to the new policy.	D	The employee was sanctioned for misconduct.

25 Identify the grammatically correct sentence:

A	Neither the employees nor the manager are happy with the decision.	B	The number of applicants have increased.
C	Everyone in the group were asked to submit their IDs.	D	Each of the participants was given a certificate.

26 A number is increased by 20% and then decreased by 25%. What is the net percentage change?

A	5% increase	B	10% decrease
C	10% increase	D	5% decrease

27 A can do a piece of work in 12 days, and B can do it in 16 days. Working together, in how many days will they complete the work?

A	6.80 days	B	6.50 days
C	6.85 days	D	7.0 days

28 A train 180 m long crosses a platform 120 m long in 15 seconds. What is its speed?

A	20 m/s	B	24 m/s
C	18 m/s	D	16 m/s

29 A man sells two items for ₹1000 each. On one he gains 25% and on the other he loses 25%. What is the overall profit/loss?

A	Profit ₹62.50	B	Loss ₹133.33
C	No Profit & No Loss	D	Loss ₹125.25

30 If A:B = 2:3 and B:C = 4:5, what is A:C?

A	8:15	B	2:5
C	4:10	D	3:5

31 Divide ₹1800 in ratio 3:2:1

A	₹900, ₹600, ₹300	B	₹800, ₹600, ₹400
C	₹1000, ₹500, ₹300	D	₹1200, ₹400, ₹200

32 Average of 5 numbers is 60. If one number is removed, average becomes 55. What is the removed number?

A	85	B	80
C	95	D	90

33 A is the father of B. C is the daughter of A. D is the brother of B. What is C to D?

A	Sister	B	Brother
C	Daughter	D	Mother

34 A is the sister of B. B is the brother of C. C is the son of D. How is D related to A?

A	Sister	B	Brother
C	Daughter	D	Mother

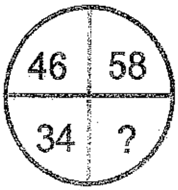
35 A, B, C, D, and E are sitting in a row. B is to the right of C, D is to the left of C, E is to the right of B, A is to the left of D. Who is at the center?

A	A	B	B
C	C	D	D

36 If 6 * 5 = 91, 8 * 7 = 169, 10 * 7 = 211, Then, 11 * 10 =?

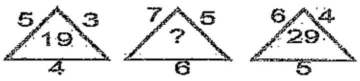
A	331	B	993
C	211	D	845

37 Find the missing number of "?"



A	92	B	72
C	22	D	68

38 Find the missing number at "?"



A	25	B	37
C	41	D	47

39 If 10 – 3 = 12, 12 – 4 = 13, 14 – 5 = 14, then:16 – 6 =?

A	10	B	15
C	16	D	18

40 Three of the following four are alike in a certain way and they form a group. Which one does not join this group?

A	Barometer	B	Thermometer
C	Lactometer	D	Diameter

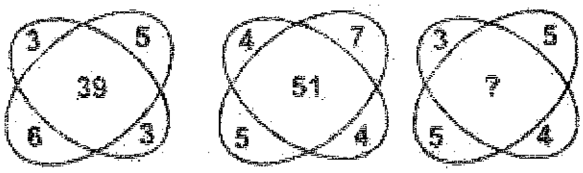
41 Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?

A	7	B	12
C	10	D	13

42 A is 6 km West from B. And C is 4 km North from B. D is 12 km South from C. Now D is how far from A.

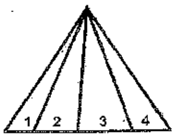
A	13 Km	B	12 Km
C	15 Km	D	10 Km

43 Find the missing number of "?" questions below



A	35	B	37
C	45	D	47

44 Find the number of triangles in the figure?



A	8	B	9
C	10	D	11

45 Anju is shorter than Shirini and Raghav is taller than Chandu but shorter than Brinda. Shrini is shorter than Chandu so who is the tallest among them?

A	Shirini	B	Chandu
C	Raghu	D	Brinda

46 In a certain code, ROSE is written as 6821, and CHAIR is 73456. What is the code for SHARE?

A	23461	B	23841
C	23481	D	23491

47 In a certain code, MONKEY is written as XDJMNL. How is TIGER written?

A	EXCGA	B	EHFGS
C	EXFHS	D	EDFHS

48 If A + B means A is the daughter of B, A - B means A is the brother of B, then what does A + B - C mean?

A	A is the daughter of C	B	A is the niece of C
C	A is the sister of C	D	A is the cousin of C

49 Statements:
Some pens are pencils.
All pencils are erasers.
Conclusions:
I. Some pens are erasers.
II. All pens are erasers.

A	Only I follows	B	Only II follows
C	Both follow	D	Neither follows

50 Statements:
All apples are fruits.
All fruits are sweet.
Conclusions:
I. All apples are sweet.
II. Some fruits are apples.

A	Only I follows	B	Only II follows
C	Both follow	D	Neither follows

51 If $(x+\frac{1}{x})^3 = 27$, then what is the value of $(x^2+\frac{1}{x^2})$? Given that x is real.

A	7	B	9
C	11	D	13

52 The cost price of 15 articles is the same as the selling price of 10 articles. The profit per cent is:

A	30%	B	35%
C	40%	D	50%

53 The radius of a sphere is 9 cm. It is melted and drawn into a wire of radius 0.3 cm. The length of the wire is:

A	112 m	B	108 m
C	118 m	D	106 m

54 A solid metallic sphere of radius 10 cm is melted and recast into spheres of radius 2 cm each. How many such spheres can be made ?

A	64	B	216
C	125	D	100

55 A reduction of 20% in the rate of sugar enables Sudhir to get 6 kg more sugar for 960. What is the reduced rate of sugar per kg?

A	36	B	35
C	40	D	32

56 12 pumps working 6 hours a day can empty a completely filled reservoir in 15 days. How many such pumps working 9 hours a day will empty the same reservoir in 12 days?

A	9	B	10
C	12	D	15

57 A tank can be filled by pipe A in 2 hours and pipe B in 6 hours. At 10 A.M. pipe A was opened. At what time will the tank be filled if pipe B is opened at 11 A.M.?

A	12.45 A.M.	B	5 P.M
C	11.45 A.M.	D	12 P.M

58 If the difference between the compound interest compounded annually and the simple interest on a certain sum of money for three years at 10% per annum is ₹279, then the sum (in ₹) is:

A	10,000	B	9,000
C	8,000	D	7,500

59 If the simple interest on a certain sum of money borrowed for 4 years at 9.5% per annum exceeds the simple interest on the same sum for 3 years 12.5% per annum by ₹225, then the sum borrowed is:

A	₹35,000	B	₹42,000
C	₹45,000	D	₹48,000

60 What is the perimeter (in cm) of an equilateral triangle whose height is 3.46 cm ? Take$\sqrt{3} = 1.73$.

A	12	B	9
C	6	D	10.4

61 If the radius of a circle is equal to a diagonal of a square whose area is 12 cm^2 , then the area of the circle is:

A	$28\pi\ \text{cm}^2$	B	$36\pi\ \text{cm}^2$
C	$32\pi\ \text{cm}^2$	D	$24\pi\ \text{cm}^2$

62 The average weight of the Rahul and his three friends is 55 Kg. If Rahul is 4 Kg more than the average weight of his three friends, what is Rahul's weight (in Kg)

A	54	B	58
C	60	D	62

63 A die is rolled twice . What is the probability of getting a sum equal to 9

A	2/3	B	2/9
C	1/3	D	1/9

64 If $x^2 + 1 - 2x = 0$, $x > 0$, then $x^2(x^2 - 2) =$_______.

A	0	B	-1
C	1	D	$\sqrt{2}$

65 The respective ages of a father and his son are 41 and 16 Years. In how many years will the father be twice as old as his son

A	19 Years	B	15 Years
C	9 Years	D	10 Years

66	If the angle of elevation of sun is 60° then find the height of a wall, shadow of which is 180m ?			
	A	$180\sqrt{3}$m	B	$60\sqrt{3}$ m
	C	120m	D	180m

Data Interpretation

Case-1 (Q67-69): A company has 3 departments: Sales, HR, and Tech. The number of employees is as follows:

- Sales: 120 employees, Avg salary = ₹40,000
- HR: 60 employees, Avg salary = ₹35,000
- Tech: 90 employees, Avg salary = ₹50,000

67	What is the total salary expense of the company per month?			
	A	₹ 110 Lakh	B	₹ 114 Lakh
	C	₹ 120 Lakh	D	₹ 122 Lakh

68	What is the average salary of all employees combined?			
	A	₹ 42,222/-	B	₹ 43,333/-
	C	₹ 44,444/-	D	₹ 45, 555/-

69	What is the ratio of total salary of Sales to Tech departments?			
	A	12:10	B	6:5
	C	16:15	D	8:7

70	Which of the following is not a feature of the Indian Constitution?			
	A	Parliamentary system	B	Dual citizenship
	C	Fundamental Rights	D	Single Constitution for Union and States

71	The words 'Socialist' and 'Secular' were added to the Preamble by:			
	A	24th Amendment	B	42nd Amendment
	C	44th Amendment	D	52nd Amendment

72	The Indian Constitution was adopted by the Constituent Assembly on:			
	A	26th January 1950	B	15th August 1947
	C	26th November 1949	D	9th December 1946

73	The basic structure doctrine was propounded in which case?			
	A	Golaknath Case	B	Minerva Mills Case
	C	Kesavananda Bharati Case	D	Berubari Case

74	The Right to Education (RTE) was added as a Fundamental Right by which amendment?			
	A	86th Amendment	B	84th Amendment
	C	74th Amendment	D	73rd Amendment

75	The Goods and Services Tax (GST) was introduced by which Constitutional Amendment?			
	A	97th	B	100th
	C	101st	D	102nd

76	The term "stagflation" refers to a situation where:			
	A	Prices fall, but employment rises	B	Economic growth and inflation rise together
	C	Prices rise, but production falls	D	Both inflation and unemployment are high

77	The G20 Presidency of India was held in the year:			
	A	2022	B	2023
	C	2024	D	2025

78	What does "ABC" stand for in the context of Indian higher education reforms under NEP 2020?			
	A	Accreditation Board Committee	B	Ability Based Course
	C	All India Bachelors Council	D	Academic Bank of Credits

79	Which is NOT a feature of NEP 2020?			
	A	Multiple entry-exit options in degree programs	B	Disciplinary silos preserved strictly, no interdisciplinary courses
	C	Focus on vocational education from early years	D	Emphasis on mother tongue / local language instruction till at least Grade 5

80	From which date do the latest GST rate changes under "GST 2.0" take effect?			
	A	1 April 2025	B	1 January 2026
	C	22 September 2025	D	15 August 2025

81	Under the GST 2.0 reforms, what are the two main standard tax slabs for most goods & services (excluding sin / luxury goods)?			
	A	5% and 12%	B	8% and 18%
	C	12% and 18%	D	5% and 18%

82	Who was appointed interim Prime Minister after the protests in Nepal?			
	A	Sher Bahadur Deuba	B	Sushila Karki
	C	Ram Chandra Poudel	D	Pushpa Kamal Dahal

83	When are the fresh general elections in Nepal scheduled, following the interim government?			
	A	December 2025	B	January 2026
	C	March 2026	D	June 2026

84	Against whom did C. P. Radhakrishnan win the vice-presidential election?			
	A	B. Sudershan Reddy	B	Venkaiah Naidu
	C	Acharya Devvrat	D	Jagdeep Dhankhar

85	Under what mission name did Shubhanshu Shukla fly to the ISS?			
	A	Gaganyaan -1	B	Chandrayaan Mission 4
	C	Axiom Mission-4 (Ax-4)	D	ISRO-NASA Joint Mission 2025

86 Which Indian shooter made history by becoming the first Indian woman to win an Olympic shooting medal and then won two medals in the same Olympics in 2024?

A	Saina Nehwal	B	Manu Bhaker
C	Anjum Moudgil	D	Apurvi Chandela

87 Who received the Dadasaheb Phalke Award (lifetime achievement) in 2025?

A	Amitabh Bachchan	B	Adoor Gopalakrishnan
C	Mohanlal	D	Waheeda Rehman

88 Which missile was successfully tested by India via a rail-based launch in September 2025, with a range of about 2,000 km?

A	Agni-V	B	Agni-Prime
C	BrahMos-III	D	Hypersonic Technology Demonstrator Vehicle (H-TV)

89 Which Indian fighter plane retired recently

A	Sukhoi Su-30MKI	B	Mirage 2000
C	Rafale M	D	MIG-21

90 The Ayushman Bharat Yojana aims to provide health insurance of up to how much per family per year?

A	₹1 lakh	B	₹3 lakh
C	₹5 lakh	D	₹10 lakh

91 What is the main objective of the PM Gati Shakti Yojana?

A	Empower street vendors	B	Provide employment to rural youth
C	Ensure food security	D	Develop integrated infrastructure and logistics

92 Under which scheme can youth receive training and certification in skill development?

A	Pradhan Mantri Ujjwala Yojana	B	PM Kaushal Vikas Yojana (PMKVY)
C	PM Gramin Sadak Yojana	D	Mudra Yojana

93 Which scheme provides loans without collateral to micro and small enterprises, especially women, SCs/STs, and entrepreneurs?

A	Stand-Up India	B	Startup India
C	Digital India	D	Make in India

94	Which day is observed as National Science Day in India?			
	A	January 28	B	February 28
	C	March 14	D	April 28

95	Which river is known as the lifeline of Tamil Nadu?			
	A	Cauvery	B	Godavari
	C	Krishna	D	Vaigai

96	Which famous classical dance form originated in Tamil Nadu?			
	A	Kuchipudi	B	Odissi
	C	Kathak	D	Bharatanatyam

97	Which city is known as the Manchester of South India due to its textile industry?			
	A	Tiruppur	B	Salem
	C	Coimbatore	D	Erode

98	Who is the current Chief Justice of India (CJI) as of October 2025?			
	A	Justice D.Y. Chandrachud	B	Justice U.U. Lalit
	C	Justice Ranjan Gogoi	D	Justice Bhushan Ramkrishna Gavai

99	Which sport does D. Gukesh, who received the Khel Ratna in 2025, belong to?			
	A	Chess	B	Badminton
	C	Wrestling	D	Shooting

100	Which of the following is a water-soluble vitamin			
	A	Vitamin-C	B	Vitamin-D
	C	Vitamin-E	D	Vitamin-K

*******End of Paper*********