# IPM Scholarship Test

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## **INSTRUCTIONS**

- 1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO.
- **2.** Fill in the information required on the answer sheet. Your test may not be evaluated if the required details are not entered on the answer sheet.
- 3. This examination consists of three sections: Section I, II and III. Section I has 20 questions based on Quantitative Aptitude. Section II has 20 questions based on Verbal Ability. Section III has 10 questions based on Data Interpretation & Logical Reasoning.
- 4. Do not seek clarification on any item in the test booklet from the test invigilator or the centre supervisor. Use your best judgment.
- 5. The time for completing the three sections is 60 minutes.
- 6. All questions carry EQUAL marks. For every correct answer THREE MARKS will be awarded. ONE MARK will be deducted for each incorrect answer.
- 7. Aim at securing maximum scores in each section.
- **8.** In attempting this test speed is the essence. It is suggested that you should not get stuck in any of the questions.
- **9.** Use of any calculating device is prohibited.
- 10. Write all your answers only on the answer sheet.
- 11. Use only BLUE OR BLACK BALL-POINT PEN for writing answers. Do not use gel pens or ink pens.
- 12. Failure to follow instructions and examination norms will lead to disqualification.

To open the test booklet, insert a pen beneath this page and tear open along the right side of the test booklet as indicated by the arrow at the bottom of the page.

PLEASE WAIT FOR THE SIGNAL TO OPEN THE TEST BOOKLET.

# Best of Luck



**Open from this side** 



# Section - 1 Quantitative Aptitude

1.	If 5 boys or 4 men can paint a (a) 9 days	a wall in 20 days. How much tir (b) 10.26 days	me will 6 boys and 3 men take (c) 11.75 days	to paint the wall? (d) None of these
2.		branch of a tree, then 2 birds cupied. How many branches a (b) 10, 48		5 birds perch on each branch, (d) 12, 48
3.			n, will be needed to build a wal (c) 6400	• •
4.	read Z; 30% read X and B, 2 percentage of persons who re	28% read B and C, 36% read ead all the three papers is	X and Z; 8% do not read any	read X, 51% read Y and 68% of the three newspapers. The
5.				(d) None of these g in opposite directions at the
	(a) 230 m	ds. What is the length of the ot (b) 240 m	(c) 260 m	(d) 320 m
6.			loys 50 people for the same. For the same in the same is need to be employed to complete (c) 35	However after 25 days he finds plete the work in time ?  (d) 20
7.		milk and water mixed in the randle and half water, they must be (b) 3:5		e mixtures are mixed to form a $ (d)  7:3 $
8.	I sell my radio for Rs 480 and (a) Rs 500	thereby lose 20%. Find the co (b) Rs 600	ost price. (c) Rs 650	(d) Rs 700
9.	38 x 38 x 38 + 34 x 34 x 34 + 38 x 38 + 34 x 34 + 28 x 28 -	38 x 34 – 34 x 28 – 38 x 28	s equal to :	
	(a) 24	(b) 32	(c) 44	(d) 100
10.	The least number having four (a) 1004	digits which is a perfect squar (b) 1016	re is (c) 1036	(d) None of these
11.				m A completes a round in 252 at time will they meet again at
	(a) 26 minutes 18 seconds (c) 45 minutes		<ul><li>(b) 42 minutes 36 seconds</li><li>(d) 46 minutes 12 seconds</li></ul>	
12.	What is the remainder left after (a) 0	er dividing 1! + 2! + 3! + + (b) 5	100 ! by 7? (c) 21	(d) 14
13.	What is the remainder of the (a) 11	polynomial $2(x-3)^2 + 3(x-4)^2$ (b) 46	<sup>3</sup> + 4(x - 5) <sup>4</sup> when it is divided (c) 77	by (x - 6)? (d) 88
14.				e 1 weights measure 7 kg each 20 kg using these two types of
	(a) 1	(b) 2	(c) 3	(d) 4
15.	original price of groundnuts in	Rs./kg are respectively	,	ts less for Rs. 240. Then, the
	(a) 32	(b) 36	(c) 40	(d) 48
16.		D is a cyclic quadrilateral. CD AC = 50°, then what is the value		$BFC = 30^{\circ}$ . BF intersects the
	(a) 15°	(b) 17.5°	(c) 20°	(d) 22.5°

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17.

	within which the train will (a) 20 min	cross the bridge measuring (b) 30 min	12.2 km in length is (c) 12 min	(d) 18 min
18.				arrive at B and A respectively 5 hr tarting from A and that of the other
	(a) 7:4	(b) 2:1	(c) 8:5	(d) 5:3
19.	What is the area of the late (a) $32(\sqrt{2} + 1)$	rgest regular octagon (in cm (b) $16(\sqrt{2} + 1)$	(c) 12) that can be drawn inside a square (c) $32(\sqrt{2}-1)$	uare of size 4 cm? (d) $16(\sqrt{2}-1)$
20.	In a class, two students was. If the average weight (a) 8	veighing 46 and 52 kgs lea t of the class increases by c (b) 24	ve the class and are replaced by ne-fourth of a kg, then how many (c) 32	y two students weighing 51 and 55 students are there in the class?  (d) Cannot be determined

A train of 49 carriages, each of 5 m length with an engine of 55 m length is running at a speed of 25 km/hr. The time





# Section – 2 Verbal Ability

1.	CHO	ose the word that is most	SIIIIII	ar in meaning to the work	a mgm	iigritea iir bola.		
		man <b>vehemently</b> denied Forcefully		e charges of corruption t Serenely	hat we		(d)	Hysterically
2.	Cho	ose the word that is most	simila	ar in meaning to the word	d high	lighted in bold.		
		art movie I watched this e Confused		ng has put me in a <b>pens</b> Depressed		ood. Cheerful	(d)	Reflective
		for Qs. 3: The following ons, choose the sentenc						
3.	gove India (a) (b) (c)	best thing about India is ed with quaint little town erning Union Territory of laby comparison but histo For, it was one of the va For, it is on the Eastern For, it was once the cap For, it has wonderful arc	s that Madra ry has rious Coas ital of	at evoke a deep sense as, on the coast of Tami s set it apart places that had been co t, and historically, coastate the most modest of cold	of the Nadu I Nadu Ionize al area onial e	e surreal. One such pla u. In population and size d by foreign powers. s have always been in th mpires. French India.	ce is it is a e eye	Pondicherry, a tiny sel an inconsequential part o of the storm.
4.	(a) (b) (c) (d)		now how wo	ad the Prime Minister re thether the Prime Minister ad the Prime Minister red	ceived r rece ceived	I the crucial piece of infor ived the crucial piece of i the crucial piece of infor	nform matio	nation. n.
5.		following question has fits both the blanks to i					ame י	word. Choose the word
	I.	He boldly contradicted future council.	the le				_ any	thing, and appealed to a
	II. (a)	The court has decided to revoke	(b)			nd him back to prison. calculate	(d)	synchronize
6.	Filli	in the blank with a suita	ble w	rord:				
		ish descended among the along	gath (b)	nered guests as the bride on	walke (c)	ed the aisle.	(d)	down
7.	out t	ord has been given and the sentences in which the the the the the the the the the th	e wor	d has been correctly use	ed.		sente	ences A, B and C. Figure
	B: P C: D	aul used his own money aniel is entitled to his opi Only A	to buy nion a	the house, hence, he w	as en	titled to it.	(d)	Both A and C
8.		nusband and I are starting think	(b)	_ we should get a car for thinking	the fa	mily. have been thinking	(d)	to think
9.	Filli	in the blanks:						
	I (a) (c)	to the gym last we had been going, from have been going, since	ek.		(b) (d)	had been going, since have been going, from		



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## 10. Choose the sentence in which the following word is incorrectly or inappropriately used:

#### CARRY

- (a) Arjun carried off the first prize in the painting competition.
- (b) The new recruit was asked to carry over the project.
- (c) Riya has been carrying on Raj for two years.
- (d) The team carried out extensive analysis on the product before launching it.

#### Directions for Qs. 11 - 15: Read the passages given below and answer the questions that follow.

### Passage 1

The public distribution system, which provides food at low prices, is a subject of vital concern. There is a growing realization that though India has enough food to feed its masses two square meals a day, the monster of starvation and food insecurity continues to haunt the poor in our country.

Increasing the purchasing power of the poor through providing productive employment leading to rising income, and thus good standard of living is the ultimate objective of public policy. However, till then, there is a need to provide assured supply of food through a restructured, more efficient and decentralized public distribution system (PDS).

Although the PDS is extensive – it is one of the largest such systems in the world – it has yet to reach the rural poor and the far off place. It remains an urban phenomenon, with the majority of the rural poor still out of its reach due to lack of economic and physical access. The poorest in the cities and the migrants are left out, for they generally do not possess ration cards. The allocation of PDS supplies in big cities is larger than in rural areas. In view of such deficiencies in the system, the PDS urgently needs to be streamlined. Also, considering the large food grains production combined with food subsidy on one hand and the continuing slow starvation and dismal poverty of the rural population on the other, there is a strong case for making PDS target group oriented.

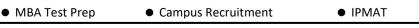
The growing salaried class is provided job security, regular income, and social security. It enjoys almost hundred percent insulation against inflation. These gains of development have not percolated down to the vast majority of our working population. If one compares only dearness allowance to the employees in public and private sector and looks at its growth in the past few years, the rising food subsidy is insignificant to the point of inequity. The food subsidy is a kind of D.A. to the poor, the self-employed and those in the unorganized sector of the economy. However, what is most unfortunate is that out of the large budget of the so called food subsidy, the major part of it is administrative cost and wastages. A small portion of the above budget goes to the real consumer and an even lesser portion to the poor who are in real need.

It is true that subsidies should not become a permanent feature, except for the destitute, disabled widows and the old. It is also true that subsidies often create a psychology of dependence and hence is habit-forming, killing the general initiative of the people. By making PDS target group oriented, not only the poorest and neediest would be reached without additional cost, but it will actually cut overall costs incurred on large cities and for better off localities. When the food and food subsidy are limited, the rural and urban poor should have the priority in the PDS supplies. The PDS should be closely linked with programmes of employment generation and nutrition improvement.

- 11. Which of the following is the main reason for insufficient supply of enough food to the poorest?
  - (a) Mismanagement of food stocks.
  - (b) Absence of proper public distribution system.
  - (c) Production of food is less than the demand.
  - (d) Government's apathy towards the poor.
- 12. What, according to the passage, is the main purpose of public policy in the long run?
  - (a) Reducing the cost of living index by increasing supplies.
  - (b) Providing enough food to all the citizens.
  - (c) Good standard of living through productive employment.
  - (d) Equalizing per capita income across the different strata of society.
- 13. Which of the following is true of public distribution system?
  - (a) It has improved its effectiveness over the years.
  - (b) It has remained effective only in the cities.
  - (c) It is unique in the world because of its effectiveness.
  - (d) It has reached the remotest corner of the country.
- 14. The word 'square' as used in the passage means
  - (a) Rich
- (b) Sumptuous
- (c) Sufficient

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(d) Quality







15. Which of the following words is the same in meaning as 'power' is used in the passage?

(a) Vigour (b) Energy (c) Influence (d) Capacity

Directions for Qs. 16 - 20: Read the passages given below and answer the questions that follow.

### Passage 2

The recent passage of the Bill, on the transplantation of human organs, by Parliament, is a long-overdue measure aimed at curbing widespread trafficking in organs, especially kidneys. As the only country where kidneys can be transplanted from donors unrelated to the patient, India, and notably Bombay, has gained international notoriety as the capital of the organ trade. Wealthy patients from India and abroad, unscrupulous doctors and rapacious brokers have made this a multi-crore racket in which the only loser is the impoverished donor parting with an organ for small money. The legislation strikes at such exploitative transactions by stipulating that blood relations and spouses are the only live donors from whom kidneys can be transplanted, and making the buying and selling of human organs a cognizable offence. By allowing the transport of cadaver organs, the Act not only opens new avenues in the treatment of renal failure, where the availability of donor kidneys falls far short of demand, but paves the way for liver transplants for which expertise exists in India. The statutory recognition of brain stem death, which is accepted medical practice the world over, widens the scope of cadaver transplants by making 'beating heart' cadavers another source for donor organs.

True, the mere enactment of such legislation cannot put an end to an entrenched practice that thrives on patronage from sections of the medical community, and political and public apathy. The delay of nearly two years between the introduction of the Bill and its passage and the attempts of people with vested interests to introduce certain dubious 'amendments' are an indication of what the law is up against. The effectiveness of the law will depend, therefore, on the state's determination to implement it through vigilant monitoring. The provisions for cadaveric transplants will remain on paper in the absence of public education to encourage the voluntary donation of bodies and organs overcoming religious taboos, and the setting up of institutional facilities for organ retrieval and storage. Most of all, the law rests on the realization by medical professionals that ethical and humane values must prevail over other considerations. The removal of organs from unrelated donors is almost invariably a transfer of health from the poor and weak to the rich. It cannot be defended on any ground.

16. Which of the following means 'thrives on patronage'?

(a) Supports the practice

(b) Confusion by the patron

(c) Prospers on support

(d) Fails in spite of support

17. Which of the following is the meaning of the phrase 'parting with', as used in the passage?

(a) Sacrificing

(b) Fall in line

(c) Coming together

(d) Partition into two

18. Which of the following is the reason for Bombay gaining international notoriety?

- (a) Human organs like kidney are smuggled here
- (b) There is no legislation against kidney transplantation
- (c) There are international underworld gangs operating
- (d) Even patients from other countries come here for kidney transplantation donated by poor people
- 19. Which of the following is one of the features of the Bill?
  - (a) It allows for transplant of only cadaver organs
  - (b) Hefty sum is to be paid to the donors
  - (c) Total ban on kidney transplantation
  - (d) Only blood relations and spouses can be the live donors

20. Which of the following would be an impediment in getting donation of cadaver organs?

(a) Storage problems

(b) Religious taboos

(c) Absence of adequate legislation

(d) Effective implementation of law





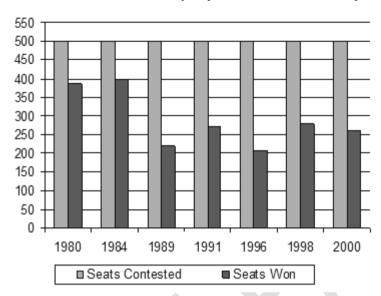


# Section – 3 Data Interpretation & Logical Reasoning

Directions for Qs. 1 – 3: Refer to the following information for the following questions.

The bar chart given below provides information about the number of seats contested and number of seats won by a national party in the Indian parliamentary elections in each of the yeas between 1980 and 2000.





1.	If the	total seats in th	ne parliament v	were 529,	how many	of the elec	ctions	did the party	get a two-th	irds majority	?
	(a)	3	(b)	2		(c)	4		(d)	1	

2. In how many of the elections did the party have to seek external support to form a government, assuming that the party sought external support whenever it did not win more than 50% of the seats in the parliament? (The parliament has 529 seats)

(a) 4

(b) 3

(c) 2

- (d) None of these
- 3. In which of the elections did the party witness the maximum % change in the number of seats it won over the previous election?

(a) 1989

- (b) 1998
- (c) 1991
- (d) both (a) and (b)

Directions for Qs. 4 – 5: Read the information given below to answer these questions.

Roma and Mohan are a married couple having two daughters named Smita and Devika. Devika is married to a man who is the son of Madhu and Jeewan. Romila is the Daughter of Aman. Krishna who is Aman's sister is married to Sunil and has two sons Anuj and Ankur. Ankur is the grandson of Madhu and Jeewan.

4. How is Krishna related to Devika?

- (a) Sister-in-law
- (b) Sister
- (c) Aunt
- (d) None of these
- In the following question, various terms of a series are given with on tem missing as shown by (?).
   Choose the missing term.

YEB, WFD, UHG, SKI, (?)

(a) QOL

(b) TOL

(c) QGL

(d) QNL



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(d) None of these



## Directions for Qs. 6 – 10: Answer the questions on the basis of the information given below.

- ✓ Abhijit, Binoti, Kokila, Dinesh, Tabbu and Urmila are six students. Each of them is a student of a different college, namely MACT, BEC, RKDF, Hamidia, Oriental and LNIT.
- Each of them absents him/her self on a different day of the week from Monday to Saturday.
- ✓ The student of BEC does not attend on Thursday.
- ✓ Kokila is absent on Tuesday.

(a) Kokila – RKDF

✓ Abhijit, the student of MACT, does attend on Saturday and Wednesday.

(b)

Dinesh - Oriental

- Dinesh is neither a student of MACT nor of RKDF and absents himself on Friday.
- ✓ Binoti is a student of Hamidia College; and Tabbu, of LNIT.

6.	Who does not attend college on Saturday?						
	(a) Binoti	(b) Tabbu	(c)	Binoti or Tabbu	(d)	None of these	
7.	Who is the student of Orie	ntal college?					
	(a) Dinesh	(b) Kokila	(c)	Urmila	(d)	Cannot be determined	
8.	Who remains absent on th	ne day following one on w	hich the studer	nt of Oriental college is	s absen	t?	
	(a) Binoti or Tabbu	(b) Binoti or Urmila	(c) I	Binoti or Kokila	(d)	Cannot be determined	
9.	Which of the following cor	nbination is correct?					
	(a) LNIT – Tuesday	(b) RKDF – Wedne	esday (c)	Hamidia – Thursday	(d)	Oriental – Friday	
10.	Which of the following cor	nbination is not correct?					

Tabbu - LNIT

