# FCI-ASST-GRADE III PAPER-1

#### PART - a : GENERAL INTELLIGENCE

Directions: In questions no. 1 to 5, select the related word/number from the given alternatives.

- 1. MAHESH: 154362:: SHAME: ?
  - (A) 65231
- (B) 65213
- (C) 62513
- (D) 62351
- Stars : Blood cells : : Telescope : \_ ?
  - (A) Lens
- (B) Blood
- (C) Camera
- (D) Microscope
- Scale : Length : : Seismograph : \_ ?
  - (A) Temperature
- (B) Earthquake
- (C) Blood pressure (D)
  - (D) Humidity
- 4. ? : Percussion : : Veena : String
  - (A) Tabla
- (B) Harmonium
- (C) Violin
- (D) Sitar
- 5. Ornithologist : Bird : : Archaeologist : \_ ?
  - (A) Arbiter
  - (B) Aquatic
  - (C) Artifact
  - (D) Archipelago

**Directions**: In questions no. 6 to 12, find the odd word/number from the given alternatives.

- (A) Mobile phone
- (B) Laptop
- (C) iPod
- (D) Wall clock
- 7. (A) Cotton
- (B) Seed
- (C) Thread
- (D) Cloth
- 8. (A) Mercury
- (B) Earth
- (C) Jupiter

Silver

Dam

(D) Uranus

Diamond

(A) Copper

(C)

(A)

10.

- (D) Lead
- (B) River

(B)

- (C) Stream
- (D) Spring
- (A) Lioness
- (B) Bitch
- (C) Mare
- (D) Stag
- 12. (A) 81
- (B) 36
- (C) 135
- (D) 128

13. If numbers starting with 950 are Airtel numbers, how many Airtel numbers are there in the below series?

> 944340 950125 953074 **950435 951095** 952135 95225 940444 **940415** 950799

951025 950723 950555 950677 953099

- (A) 4
- (**B**) 5
- (C) 6
- (D) 7

**Directions**: In questions no. 14 to 18, select the missing number from the given responses.

- - (A) 1
- (B) 3
- (C) 2
- (D) 4
- **15.** 03 (49) 04
  - 04 (81) 05
  - 07 (?) 04
  - (A) 65
- (B) 79
- (C) 101
- (D) 121
- 16. 101 : 15
- 48 : 184
- 38 ? 35 : 43 56 : 34
- 35 : 43
- (B) 158
- (A) 198
- (D) 140
- (C) 127
- (D) 142
- 17. 13289 1121
  - ? \3169
  - (A) 144
- (B) 100
- (C) 81
- (D) 225
- 18. 2-6-8; 4-12-16; 6-18-24; ?-?-32
  - (A) 4, 28
- (B) 8, 24
- (C) 14, 18
- (D) 16, 16

Directions: In questions no. 19 to 20, find the one that does not belong to the group.

- **19.** 1, 8, 27, 64, 127, 216
  - (A) 27
- (B) 127
- (C) 216
- (D) 64
- **26.** 75, 79, 72, 80, 69, 83, 66
  - (A) 69
- (B) 72 (D) 83
- (C) 79

		s: In question rm of the series.	s no.	21 to 24, find th	28.	place	d at the gaps	etters when sequ in the given lette		
21.	CIG	, FLJ, 10M, _?	_		1		complete it?	12020		
	(A)	PSU	(B)	QUB	1		pqrrs_rs_			
	(C)	LRP	(D)	JLG			sqppqpr	(B) sqprrqr		
22.	BFG	HLM, NRS,	?				spqpprr	(D) pqrrppq	*	
	(A)		HBT	TXY	29.		[전환 : 100 Table	, C, D, E and		
	(C)	TWX	(D)	RVW		is bet	tween A and C.	B is between F a A does not stand	next to	
23.	1.	74, 24	2.	78, 20	1			s not stand next		
	3.	82, 16	4.	?_, 12	1		is between which of the following pairs children?			
	(A)	90	(B)	88 .	}		B and D	(B) B and A		
	(C)	86	(D)	84	1		B and E	(D) B and C		
24.	1.	X78	2.	T92	30.		·	stion, there is an		
	3.	P106	4.	?	1		*	roduced against		
		M120	(B)	L118	-			e of which hav r. Choose the one		
	(A)	L120	(D)	K120			mistake.	. 0110000 0110 0110	************	
95				_		•	idhar Kashyap			
25.		ange the followi	-	nuer.			Supravakar Kas	hyap		
		Golden Jubilee	2		[		Nalla Beach, 1	* -		
	2.	Silver Jubilee			1	Pudu	cherry - 60501	4		
	3.	Anniversary				∠(A)·	Sristidhar Kas	hyp		
	4.	Diamond Jubi					S/o Supravaka			
	5.	Centenary Cel					Near Nalla Be			
	(A)	3, 1, 2, 4, 5				-	Puducherry - 6			
	(C)	2, 1, 3, 4, 5	(D)	2, 3, 4, 5, 1	1	人(B)	Sristidhar Kas			
26.	Whi	ch one of the g	iven re	sponses would be	a		S/o Supravaka Near Nall Bae			
		ningful order o			1		Puducherry - 6			
	1.	Call letter			1	(C)	Sristidhar Kas			
	2.	Application			}	(0)	S/o Supravaka			
	3.	Advertisement			1			ach, 11-Kalapet		
	4.	Interview			1		Puducherry - 6	05014		
	5.	Appointment of	order		1	ADT	Sristidhar Kas	hyap		
	(A)	3, 1, 2, 5, 4		3, 2, 1, 4, 5	1		S/o Supravaka			
	(C)	2, 1, 3, 4, 5	(D)	5, 4, 3, 2, 1			Near Nalla Be Puducherry – 6	ach, 11-Kalapet 05014		
27.	Arr	ange the follow	ing in	correct order :	31.	From		rnative words, se	elect the	
	1.	Taluk	2.	State				ot be formed us	ing the	
	3.	Street	4.	Village		lette	rs of the given			
	5.	District			1		CORRESPONI	DENT		

SPACE FOR ROUGH WORK

3, 4, 5, 1, 2

3, 4, 1, 5, 2

(B)

(D)

(C)

(A) 1, 2, 5, 4, 3

3, 2, 4, 1, 5

CORRECT

PRESENT

32. In the following series, how many P, D, R 38. occur in such a way that D is followed both by P and R on any one side (in reverse way also)?

## RGPKDRPDXRDP XGDRPKDPRXGK

- (A)
- (B) 2
- (C) 3
- (D) 4
- 33. In a certain code, the following alphabets are coded in a certain way by assigning numbers.

A	В	$\mathbf{C}$	Ð	$\mathbf{E}$	F	$\mathbf{G}$	Н
1	3	5	2	6	8	4	7

Which number can be coded for FEDCG?

- (A) 86524
- (B) 86245
- (C) 86452
- (D) 86254
- 34. If  $5 \times 6 = 42$ ,  $2 \times 8 = 27$ ,  $4 \times 9 = 50$ , then  $7 \times 0 =$ 
  - (A) 0
- (B) 7
- (Q) 8
- (D) 15
- 35. In certain code, P is #, A is %, C is φ and E is @. How is PEACE written in that code?
  - (A) %#@¢%
- (B) #@% 0@
- (C) #@%@#
- ) (D) #@#ф@
- 36. In a certain code, the following alphabets are coded in a certain way by assigning numbers as follows:

# A D I L M N O R W 1 2 3 4 5 6 7 8 9

Which word can be decoded from the following?

#### 163514 97842

- L(A) WORLD OF ANIMALS
  - (B) ANIMALS WORLD
- ANIMAL WORLD
  - (D) ANIMAL LESS WORLD
- 37. The elephant population in Karnataka is increasing year after year. Find out the elephant population in 2006 from the following information:

2001	2002	2003	2004	2005	2006	
12	24	48	84	132	?	

- (A) 192
- (B) 190
- (C) 180
- (D) 185

- 8. Mr. Sen is a hardworking labourer. He earns ₹ 200 per day. On an average, he spends ₹ 75 for food, ₹ 10 for dress, ₹ 50 for loan repayments, ₹ 10 for social service and ₹ 30 for other activities. The balance amount he deposits in his bank account. If he takes 5 days' leave in January, what will be his bank balance for the month?
  - (A) ₹ 775
- (B) ₹ 650
- (C) ₹ 750
- (D) ₹ 625
- 39. If EARTH is coded as SUBDZ, then TEAR and HER are coded as
  - (A) DSUB, ZUB
- (B) DUBS, BUZ
- (C) DSUB, BSZ
- (D) DSUB, ZSB

Directions: In questions no. 40 and 41, a statement is given followed by two conclusions. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statement.

40. Statement: Safety lockers are the best place to preserve valuables.

#### Conclusions:

- Valuables are not safe at any place.
- There are few places better than safety lockers to preserve valuables.
- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Both conclusions I and II follow
- (D) Neither conclusion I nor II follows
- 41. Statement: Of all the T.V. sets manufactured in India, 'Solar' brand has the largest sale.

#### Conclusions:

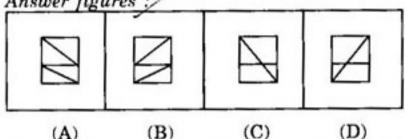
- Volume of sales of all brands of T.V. sets manufactured is known.
- II. The production of no other T.V. set is as large as that of 'Solar'.
- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Both conclusions I and II follow
- (D) Neither conclusion I nor II follows

Complete the missing portion selecting from |46. 42. the alternatives given.

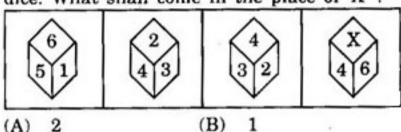
Question figure:



Answer figures :/

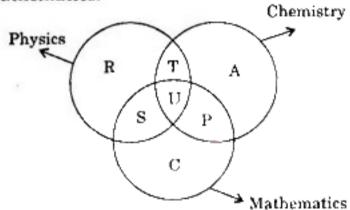


Given below are the different positions of a 43. dice. What shall come in the place of 'X'?



(D) (C)

The diagram below represents the students Chemistry study Physics, Mathematics.

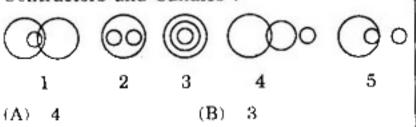


Study the diagram and identify the region which represents students who study both Physics and Chemistry but not Mathematics.

(A)  $R+T+\Lambda+U+P+S$  (B) T

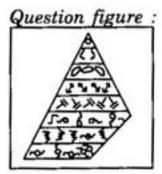
T+S+U+P (D) C (C)

Which one of the following figures represents 45. Politicians. relationship among Contractors and Candles ?

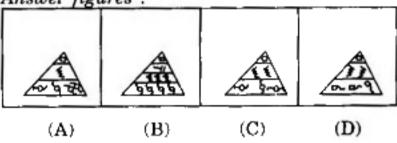


(D) 1  $(\mathbf{C})$ 2

Which answer figure will complete the pattern in the question figure ?



Answer figures :

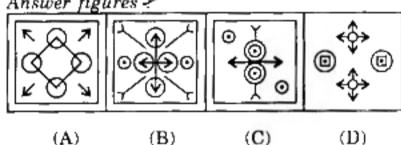


47. From the given answer figures, select the which the question figure is in one hidden/embedded.

Question figure :



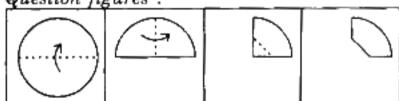
Answer figures -:



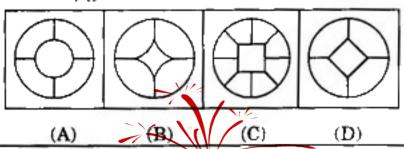
A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question figures :

48.



Answer figures :



49. Find out the mirror image of the question 43. figure given below.

Question figure:



Answer figures :

(A)

(B)

(C)

 $(\mathbf{D})$ 

50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The Directions : In questions no. 46 to 48, select the columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., G can be represented by 02, 14, etc., and P can be represented by 66, 78, etc. Similarly, you have to identify the set for the word LINE.

BEA	TIDITY	т
MIA	TRIX	. 1

	0	1	2	.3	4
0	E	F	G	Н	I
1	Н	I	E	F	G
2	F	G	H	ī	E
3	I	E	F	G	Н
4	G	н	I	E	F

### MATRIX II

onasce <sup>2</sup>							
	5	6	7	8	9		
5	L	M	N	0	Р		
6	0	P	L	M	N		
7	M	N	0	P	L		
8	P	L	M	N	0		
9	N	0	P	L	M		

- (A) 86, 31, 69, 42
- (B) 86, 11, 68, 42
- (C) 86, 11, 69, 43
- (D) 86, 11, 69, 40

## FOR VISUALLY HANDICAPPED CANDIDATES ONLY

Directions: In questions no. 42 and 43, a series is given, with one term missing. Choose the correct 50. alternative from the given ones that will complete the series.

42.

89, 98, 55, ?

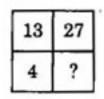
- 58 (A)
- (B) 55
- (C) 98
- (D) 99

- B, F, J, N, R, V, Z, D, H, L, ?
  - (A) M
- (B) O
- (C) P
- (D) T
- Rama, a friend of Krishna, came to meet him every Sunday. The first time he came at 12.30 pm, next time at 1.20 pm, then at 2.30 pm and then at 4 pm. When did Rama turn up to see Krishna, the time after that?
  - (A) 5.20 pm
- (B) 5.30 pm
- (C) 6.20 pm
- $(\mathbf{D})$ 5.50 pm
- 45. Find the odd number from the given alternatives.
  - (A) 146
- (B) 278
- (C) 321
- (D) 789

missing number from the given responses.

5 10 8 120

7	30
6	222



- (A) 126
- (B) 132
- (C) 147
- (D) 160
- 47. 42, 79, 153, ? , 597
  - (A) 300
- (B) 301
- 305
- (D) 303
- 77, 49, 36, 18, ?
  - (A) 7
- (B)
- (C) 9
- (D)
- 49. If BHASHA is written is 154754 and BRAIN is written as 13408, then AHINSA is written as
  - (A) 458074
- 405847 (B)
- (C) 450847
- (D) 450874
- If HKUJ is written as FISH in a code language, how can UVCD be written in the same code ?
  - (A) STAR
- STAK
- STAL

# PART - b : GENERAL AWARENESS

51.		ns under perfectly competitive markets erally are	57.	The Cons	final interpreter of the India stitution is
	(A)	Price makers	1	(A)	Central Cabinet
	(B)	Price givers	1	(B)	President
	(C)	Price takers	1		
	(D)	Price fixers			High Court
52.	Sele	et the odd one in the following:		(D)	Supreme Court
	(A)	Petroleum	58.	One	of the following laws favours women
	(B)	Coal			ests:
	(C)	Fuel wood		(A)	Equal Remuneration Act
	(D)	Electricity		(B)	Protection of Civil Rights Act
53.	Nati	onal Income is		(C)	Immoral Traffic (Prevention) Act
	(A)	Net National Product - Indirect Taxes + Subsidies		(D)	None of the above
	(B)	Gross National Product - Direct Taxes	59.	One	of the following was once an associat
	(C)	Gross Domestic Product - Imports			of the Union of India and later becam
	(D)	Net Domestic Product + Exports		a full	fledged State:
54.	Whi	ch statement is true ?		(A)	Jharkhand
	(A)	Money is a good servant	ì	(B)	Chhattisgarh
	(B)	Money is a good servant but a bad master		(C)	Arunachal Pradesh
	(C)	Money is a good master but a bad servant		(D)	Sikkim
	(D)	Money is a good master and a good	60.	Presid	dent of India can be impeached by
		servant		(A)	Specially constituted Tribunal
55.	India	a has adopted as its economic	1	(B) S	Supreme Court
	syste socie	em to bring about a socialistic pattern of		(C) (	Central Cabinet
	(A)	Socialism	_	,(D) i	Parliament
	(B)	Mixed Economy			
	(C)	Capitalism	61.	Who a	among the following was the leader of
	(D)	Political Economy		Cabin	et Mission ?
56.	Loca	l governments are the basis of		(A) S	Stafford Cripps
	(A)	Aristocracy		(B) I	Linlithgow
	(B)	Secularism		(C) A	A.V. Alexander
	(C)	Democracy			Sir Pethick Lawrence
	(D)	Reservation		,_,	

SPACE FOR ROUGH WORK

Nadir Shah defea	at the Mughal Emperor	1	Chennai gets less rain than other place from the South-West monsoons because
(A) Delhi	(B) Karnal		(A) The monsoon runs parallel to Coromandel coast
(C) Panipat	(D) Kanpur		(B) Chennai is too hot to allow moisture to condense
Mahabashya was w	ritten by	1	(C) They are off-shore winds
(A) Gargi	(B) Manu		(D) All the above
		69.	The climate of India is
	,		(A) Equatorial (B) Monsoonal
Rabindra Nath Tag	ore was first published in		(C) Mediterranean (D) Continental
January 1912 unde	r the title of	70.	Laterite soils are found in
(A) Rashtra Jagra	ti		(A) heavy rainfall region
(B) Tatva Bodhini			(B) desert region
(C) Bharat Vidhat	a		(C) tropical region
(D) None of the al	bove		(D) tropical region with wet and dry climate
01 - 01 - 1 - 1 - 1		71.	Photosynthesis takes place in
	ile fighting in		(A) Roots of the plants
(A) Chausa			(B) Green parts of the plants
(B) Kalinga			(C) Stems of the plants
(C) Kalinjar			(D) All parts of the plant
(D) None of these		72.	Universal Blood Donor is
Biosphere reserves	are meant to		(A) A group (B) B group
(A) Preserve wild	land flora and fauna		(C) AB group (D) O group
(B) Experiment an	nd develop forest products	73.	Alcoholic fermentation is brought by
-		1	(A) Mushrooms
products		1	(B) Amoeba
(D) All the above		1	(C) Virus
			(D) Yeast
Days and nights ar	e caused because of	74.	Birds and bats are good fliers. The bat
(A) shape of Earth	's orbit		differs from bird in having
(B) revolution mov	rement		(A) Four chambered heart
(C) rotational mov	ement	1	(B) Diaphragm
		1	(C) Whige
			WWW.questionpaperz.ii
	Nadir Shah defeat Mohammad Shah?  (A) Delhi (C) Panipat  Mahabashya was was was (A) Gargi (C) Bana  The song Jana-Grabindra Nath Tag January 1912 under (A) Rashtra Jagra (B) Tatva Bodhini (C) Bharat Vidhat (D) None of the all Sher Shah died who (A) Chausa (B) Kalinga (C) Kalinjar (D) None of these  Biosphere reserves (A) Preserve wild (B) Experiment and (C) Experiment and	Nadir Shah defeat the Mughal Emperor Mohammad Shah?  (A) Delhi (B) Karnal (C) Panipat (D) Kanpur  Mahabashya was written by (A) Gargi (B) Manu (C) Bana (D) Patanjali  The song Jana-Gana-Mana' composed by Rabindra Nath Tagore was first published in January 1912 under the title of (A) Rashtra Jagrati (B) Tatva Bodhini (C) Bharat Vidhata (D) None of the above  Sher Shah died while fighting in (A) Chausa (B) Kalinga (C) Kalinjar (D) None of these  Biosphere reserves are meant to (A) Preserve wild land flora and fauna (B) Experiment and develop forest products (C) Experiment and develop agriculture products (D) All the above  Days and nights are caused because of (A) shape of Earth's orbit (B) revolution movement (C) rotational movement (D) None of the above	(A) Delhi (B) Karnal (C) Panipat (D) Kanpur  Mahabashya was written by (A) Gargi (B) Manu (C) Bana (D) Patanjali  The song Jana-Gana-Mana' composed by Rabindra Nath Tagore was first published in January 1912 under the title of (A) Rashtra Jagrati (B) Tatva Bodhini (C) Bharat Vidhata (D) None of the above  Sher Shah died while fighting in (A) Chausa (B) Kalinga (C) Kalinjar (D) None of these  Tale Biosphere reserves are meant to (A) Preserve wild land flora and fauna (B) Experiment and develop forest products (C) Experiment and develop agriculture products (D) All the above  Days and nights are caused because of (A) shape of Earth's orbit (B) revolution movement (C) rotational movement

Unfold Every Question

75.	'Tube within a tube' type of body plan if	s <b>82.</b>	A translator for program into machi				
	(A) Sea anemone		(A) Assembler	(B)	Compiler		
	(B) Leech		(C) Loader	(D)	Linker		
	(C) Amoeba						
	(D) Sycon	83.	Atomic nuclei are co	ompos	ed of		
76.	The portion of a plant that is grafted on t		(A) Protons and el	ectron	s		
10.	the other plant is called	"	(B) Protons and isotrons				
	(A) Stock (B) Scion	1	(C) Electrons and	neutro	ns		
	(C) Stalk (D) Sucker		(D) Protons and ne	utron	8		
77.	White light is a mixture of how man	y 84.	Which allotrope of clubricant and as lea				
	(A) 4 (B) 5		(A) Diamond	(B)	Coal		
	(C) 6 (D) 7		(C) Charcoal	, (D)	Graphite		
78.	Surface tension arises due to	85.	Example of nerosol	is			
	(A) adhesive force between molecules		(A) Milk	(B)	River water		
	(B) cohesive force between molecules		(C) Smoke	(D)	Blood		
	(C) gravitational force between molecules (D) electrical force between molecules	86.	A process that is photosynthesis is th		st the reverse o		
79.	A particle covers equal distance around circular path in equal interval of time. It has uniform		<ul><li>(A) digestion of sta</li><li>(B) melting of iron</li></ul>				
	(A) Velocity (B) Speed	1	(C) ripening of frui	t			
	(C) Acceleration (D) Momentum		(D) burning of woo	d			
80.	Which of the following will always produce a diminished image of an object placed before it?	1	Ozone hole was disc (A) 1975 (C) 1978	overed (B) (D)	l over Antarctica in 1985 1987		
	(A) Plane mirror		(0) 1376	(1))	1907		
	(B) Convex mirror	88.	Yusho disease, di	scover	ed in Japan, is		
	(C) Convex lens		related with pollutio	n due	to		
	(D) Concave mirror		(A) PCB	( <b>B</b> )	Cadmium		
81.	The term PC means		(C) Acid Rain	(D)	PAN		
	(A) Private Computer	89.	The Pyramid of Bior	nass is	s inverted in which		
	(B) Personal Calculator		ecosystem ?				
	(C) Personal Computer		(A) Pond	(B)	Forest		
	(D) Professional Computer		(C) Grassland	(D)	Mangrove		

90.		tral Pollution Control Board comes under Ministry of	95.	The (A)	famous Dilwara Temples are situated in Rajasthan	
	(A)	Health and Family Welfare		(B)	Uttar Pradesh	
		_	1	(C)	Madhya Pradesh	
	(B)	Oil and Petroleum	1	(D)	Maharashtra	
	(C)	Social Welfare	1			
	(D)	Environment and Forests	96.		President of India has awarded Raji dhi Khel Ratna Award to	
91.	Hyd	crabad is famous for a museum. Name		( <b>A</b> )	Vijay Kumar (Shooter)	
	. –	museum.		(B)	M.S. Dhoni (Cricketer)	
	( <b>A</b> )	Prince Wales Museum		(C)	Both (A) and (B)	
				(D)	None of the above	
	(B)	Salarjung Museum	97.	Indi	a has won the Under-19 Cricket World	
	(C)	National Museum			, 2012 after defeating in the	
	(D)	Victoria Museum	1	final	1.	
				(A)	Australia	
92.	Whi	ch city is known as Electronic City?		(B)	England	
	(A)	Gurgaon	1	(C)	South Africa	
	(B)	Bengaluru	-	<b>(10</b> )	Pakistan	
	(C)	Jaipur		Bharatpur Sanctuary is located in the Stat		
	(D)	Salem	98.	of		
				(A)	Orissa (B) Tamil Nadu	
93.	Firs	t woman President of India is		(Ċ)	Karnataka (D) Rajasthan	
	(A)	A) Mrs. Najma Heptulla		mb - cott Charting Wall Charting his at		
	(B)	Mrs. Sheila Dikshit	99.	The 2014 Shooting World Championship w be held in		
	(C)	Mrs. Vasundhara Raje Scindia	1	(A)	Granada in Spain	
	(D)	Mrs. Pratibha Patil		(B)	New Delhi in India	
	•			(C)	Toronto in Canada	
94.	To	which country does India export the		(D)	Melbourne in Australia	
		aximum gems and ornaments in value				
	term		100.	Rath	nyatra at Puri is celebrated in honour of	
	(A)	U.S.A.		(A)	Lord Rama	
	(B)	Britain		(B)	Lord Jagan Nath	
	(C)	Russia	1	(C)	Sri Chaitanya Rrabhu	
	(D)	Japan		(D)	Sri Satya Sai Baba	
		SPACE FOR R	OUGH	WHA	IIII nijestinnnanerz i	

# PART - c : QUANTITATIVE APTITUDE

		-	mer - c . Quint.	Lila	MINE AL III ODE
101.	The large 2.08 is (A) 2.6 (C) 2.66	(B)	2.066	109.	A trader marked his product 20% higher than his cost price and then gives 20% discount on the marked price. The profit or loss for selling the product is
102.	If $\sqrt{2} =$	1.4142, the value	the of $\frac{7}{4+\sqrt{2}}$ is		(A) 4% profit (B) 0% profit (C) 4% loss (D) 10% profit
	(A) 1·29 (C) 3·58		1·5858 4·4142	110.	<ol> <li>The ratio between the ages of A and B is</li> <li>3:5 and the sum of their ages is 56 years.</li> </ol>
103.	Next num	nber in the serie	s	D1.7	The ratio between their ages 7 years ago was  (A) 1:2 (B) 2:3 (C) 3:4 (D) 3:5
	is (A) 633 (C) 636	(B) (D)	632 638		Divide ₹ 990 into 3 parts in such a way that half of the first part, one-third of the second part and one-fifth of the 3 <sup>rd</sup> part are equal.
104.		is exactly divisi numbers ? (B) (D)	35 L(A)=	JUD- 3	(A) 200, 300, 490 (B) 196, 298, 496
105.	The LCM	of two numbers b. The biggest p			from each of the five markets at ₹ 1, ₹ 1.50, ₹ 1.80, ₹ 2 and ₹ 2.25 per orange respectively. What is the average price of an orange?
_	(A) 24, 1 (C) 36, 2	24 y(D)	72, 48	-	(A) ₹ 1·58 (B) ₹ 1·80 (C) ₹ 1·91 (D) ₹ 2·00
	stock is for the hoste complete	or 45 days. If 30 el, in how ma stock be exhaust	students and food new students join ny days will the ed?		. The mean temperature of Monday to Wednesday was 37°C and of Tuesday to Thursday was 34°C. If the temperature on
•	(A) 32 (C) 38	(B) (D)	36 40		Thursday was 4/5 that of Monday, the temperature on Thursday was
107.	12 days w	vorking 8 hours	all 200 m long in a day. The number to build a similar		(A) 36·5°C (B) 36°C (C) 35·5°C (D) 34°C
			6 hours a day will  9 18		A man loses 10% by selling an article for ₹ 180. At what price should be sell it to gain 10%?  (A) ₹ 200  (B) ₹ 216  (C) ₹ 220  (D) ₹ 217-80
108.	printed p	orice, and was of 20% on the p	ount of 10% on the purchased at a rinted price. If the al was ₹ 10, then	7078280	A producer of tea blends two varieties of tea from tea gardens one costing ₹ 18 per kg and another ₹ 20 per kg in the ratio 5 : 3. If he
		d price of the bo			sells the blended variety at ₹ 21 per kg, then his gain percent is  (A) 10 (C) 18
1.07.53%			SPACE FOR RO	DUGH	www.guestionnanerz.in

- 116. 25% of what amount of money is equal to 124. A metal sphere of radius 12 cm is melted  $12\frac{1}{2}\%$  of ₹ 180 ?
  - (A) ₹ 80

- (C) ₹ 120
- ₹ 75 (D)
- 117. In measuring a line segment of length 2.5 cm, it was measured as 2.55 cm by mistake. Find the error percent.
  - (A) 1%
- (B)
- (C) 3.5%
- 3% (D)
- 118. Two friends walking at 5 km/hr and 7 km/hr start at the same time from two different towns 48 km apart towards each other. They will meet each other after
  - (A) 2 hours
- (B) 4 hours
- (C) 5 hours
- (D) 6 hours
- 119. A sum amounts to ₹ 1,352 in 2 years at 4% compound interest. The sum is
  - ₹ 1,300 (A)
- (B) ₹ 1,260
- (C) ₹ 1,250
- (D) ₹ 1,200
- 120. The wheel of an engine turns 350 times  $|_{127}$ . If 3x + 2y = 12 and xy = 6, then the round its axle to cover a distance of 1.76 km. The diameter of the wheel is
  - (A) 90 cm
- (B) 160 cm
- (C)120 cm
- (D) 150 cm
- A solid metallic cylinder of base radius 3 cm and height 5 cm is melted to form cones, each of height 1 cm and base radius 1 mm. The number of cones is
  - (A) 3500
- (B) 4500
- (C) 7500
- (D) 13500
- 122. The centroid of an equilateral triangle ABC is G. If AB = 9 cm, the length of AG (in cm) is
  - (A) 2√3
- (B) √3
- (C) 3√3
- (D) 3√2
- 123. In a polygon, the sum of the interior angles is double the sum of the exterior angles. The number of sides is
  - (A) 4
- (B) 5
- (C) 6
- (D) 7

- into three smaller spheres. If the radii of two smaller spheres are 6 cm and 8 cm, the radius of the third is
  - (A) 10 cm
- (B) 12 cm
- (C) 14 cm
- $(\mathbf{D})$ 16 cm
- A rectangle has 30 cm as its length and 125. 720 cm2 as its area. Its area is increased to  $1\frac{1}{4}$  times its original area by increasing only its length. Its new perimeter is
  - (A) 119 cm
- (B) 121 cm
- (C) 123 cm
- (D) 125 cm
- 126. The length of the diagonal of a square is 8 cm. A circle has been drawn circumscribing the square. The area of the portion between the circle and the square (in cm2) is
- (B)  $12\frac{2}{\pi}$
- (C)  $16\frac{2}{7}$  (D)  $18\frac{2}{7}$
- (C) 76 ( 1) 24 (B) 74 144 = 144

- 128. If the distance between the points (x, 0) and (-7, 0) be 10 units, then the possible values of x are
  - (A) 3 and -17
- (B) -3 and -17
- (C) 3 and 17
- (D) -3 and 17
- 129. If  $x + \frac{1}{x} = 6$ , then  $x^4 + \frac{1}{x^4}$  is
  - (A) 1148
- (C) 1152
- (D) 1154
- 130. If  $x + \frac{a}{x} = b$ , the value of  $\frac{x^2 + bx + a}{bx^2 x^3}$  is
  - (A)  $\frac{b}{a}$
- (B) ab
- (D)
- 131. If x + y + z = 13, then the maximum value of (x-2)(y+1)(z-3) is
  - (A) 54

- 132. The medians of a triangle ABC meet at G. If | 140. If  $\sin \theta = \frac{a^2 1}{a^2 + 1}$ , then the value of the area of the triangle be 120 sq. cm, then the area of the triangle GBC is
  - (A) 30 sq. cm
- (B) 50 sq. cm
- (C) 20 sq. cm
- (D) 40 sq. cm
- 133. The mid points of AB and AC of a triangle ABC are respectively X and Y. If BC + XY = 12 unit, then the value of BC - XY is
  - (A) 4
- (B) 12
- (C) 6
- (D) 8
- 134. Suppose AB is a diameter of a circle whose centre is at O and C be any point on the circle. If CD \(\perp \) AB and CD = 12 cm. AD = 16 cm, then BD is
  - (A) 8 cm
- (B) 9 cm
- (C) 10 cm
- (D) 12 cm
- 135. In a  $\triangle$  ABC, AB = AC and D is a point on AB, such that AD = DC = BC. Then the ∠ BAC is
  - (A) 30°
- (B) 36°
- (C) 40°
- (D) 45°
- 136. A, B and C are three points on a circle. The tangent at C meets BA produced at T. Given  $\angle$  ATC = 36° and  $\angle$  ACT = 48°, the angle subtended by AB at the centre of the circle is
  - (A) 96°
- (B)  $72^{\circ}$
- (C) 84°
- (D)  $48^{\circ}$
- 137. If  $\alpha + \beta = 90^{\circ}$  and  $\alpha : \beta = 2 : 1$ , then the value of  $\sin \alpha : \sin \beta$  is
  - (A) 1:1
- $\sqrt{2}:1$ (B)
- (C)  $\sqrt{3} : 1$
- (D) 2:1
- 138. The angles of depression, from the top of a light-house, of two boats are 45° and 30° towards the west. If the two boats are 5 m apart, then the height of the light-house is

  - (A)  $3\sqrt{3} + 1 \text{ m}$  (B)  $3(\sqrt{3} + 1) \text{ m}$  (C)  $3\sqrt{3} 1 \text{ m}$  (D)  $3(\sqrt{3} 1) \text{ m}$
- 139. If  $\sqrt{2} \cos(5x + 5^{\circ}) = \cot 45^{\circ}$ , then the value 145. of x in degrees is
  - (A) 10
- (B) 8
- (C) 11
- (D) 0

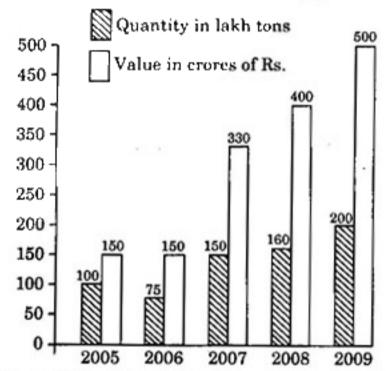
 $\sec \theta + \tan \theta$  will be

- (A)  $\sqrt{2}$  a

- (C)  $\frac{a}{\sqrt{2}}$  (D)  $\frac{a}{a^2 + 1}$
- 141. If  $\sin(x 2y) = \cos(4y x)$ , then the value of cot 2y is
  - (A) 0
- (B) 1
- (C)  $\frac{1}{\sqrt{3}}$
- (D) undefined

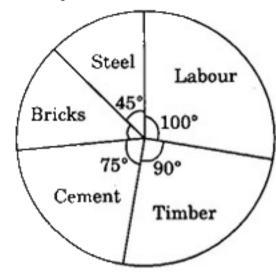
Directions : Study the following bar-diagram and answer questions no. 142 - 145.

### INDIA'S BISCUIT EXPORT



- 142. In which year was the value per ton minimum?
  - (A) 2005
- (B) 2006
- (C) 2007
- (D) 2009
- What was the % drop in export quantity from 2005 to 2006?
  - (A) 25%
- (B) 50%
- (C) 75%
- (D) 0%
- 144. In which two years was the value per ton equal?
  - (A) 2008 and 2009 (B)
- 2007 and 2008
  - (C) 2006 and 2007 (D) 2005 and 2006
- The year in which the percentage increase in export was maximum from its preceding year is
  - (A) 2008
- (B) . 2009
- 2007 (C)
- (D) None of these

Directions: The following pie chart represents a 143. A mixture of 20 kg of spirit and water total expenditure of ₹ 5,40,000 on different items in constructing a flat in a town. Study the pie chart and answer the questions no. 146 - 150.



- 146. Which is the item of maximum expenditure?
  - Timber (A)
- (B) Labour
- (C) Cement
- (D) Steel
- 147. The expenditure in ₹ on cement is
  - (A) 1.35,000
- 1,12,500 (B)
- 75,000 (C)
- 90,000 (D)
- 148. The expenditure in ₹ on bricks is
  - (A) 1,50,000
- (B) 70,000
- (C) 75,000
- (D) 67,500
- expenditure on timber (in ₹) by
  - (A) 60,000
- (B) 65,000
- (C) 10,000
- (D) 12,500
- 150. The percentage of the total expenditure spent on steel and cement is
  - (A)  $33\frac{1}{9}\%$
- (C) 33·23%
- (D) 25%

### FOR VISUALLY HANDICAPPED CANDIDATES ONLY

- 142. Sudha and Rita start a business with ₹ 2,00,000 and ₹ 3,00,000 respectively. 10% interest on their capital is added to the business every year. Profit sharing ratio at the end of 2 years is
  - (A) 3:2
- (B) 2:3
- (C) 121:180
- 120 ; 181  $\mathcal{A}$ **D**)

- contains 10% water. How much water must be added to this mixture to raise the percentage of water to 25%?
  - (A) 8 kg
- (B) 30 kg
- (C) 5 kg
- (D) 4 kg
- 144. The price of sugar increased by 25%. By what percent must a housewife reduce the consumption of sugar, that .the so expenditure on sugar is the same as before?
- (C) 25
- (D) 35
- 145. A can do a piece of work in 24 days, while B alone can do it in 16 days. With the help of C, they finish the work in 8 days. C alone can do the work in
  - (A) 32 days
- (B) 36 days
- (C) 40 days
- (D) 48 days
- 146. Simple interest at 10% on ₹ 5,000 is ₹ 2,500. The time for which the sum is invested is
  - (A) 8 years
- (B) 6 years
- (2) 5 years
- (D) 4 years
- 147. If  $\sec(90^{\circ} x^{\circ}) + \csc x^{\circ} = 4$ , then  $x^{\circ}$  is
  - (A) 30°
- (B) 60°
- (C) 45°
- (D) 15°
- 149. The expenditure on bricks is less than the 148. A person wants to travel a distance of 50 km by his bicycle. He travels with a speed of 12.5 km/hr. After every 12.5 km, he takes rest for 20 minutes. The time taken by the person to complete the whole distance is
  - 4 hours 20 minues
  - 5 hours 20 minutes (B)
  - (C) 5 hours
  - (D) 6 hours
  - 149. The radius of a circle is 8 cm. An external point is at a distance of 10 cm from the centre. The length of the tangent drawn to the circle from the external point is
    - (A) 6 cm
- (B) 8 cm
- (C) 9 cm
- (D) 10 cm
- 150. A bicycle originally costs ₹ 100 and was discounted 10%. After three months, it was sold after having discounted 15%. How much was the bicycle sold for ?
  - ₹ 55.50
- (B) ₹ 95·25
- ₹ 76.50

## PART - d: ENGLISH LANGUAGE

Directions: In questions no. 151 to 155, some parts of the sentences have errors and some have none. Find out which part of a sentence has an error and blacken the oval [ • | corresponding to the appropriate letter (A, B, C). If a sentence is free from error, blacken the oval corresponding to (D) in the Answer Sheet.

151. My sister and myself / are pleased / to accept your invitation to dinner. / No error.

(C)

(D)

www.jorg.jous.page.atma Gandhi is called / as the Father / of our nation. / No error.

153. The thief escaped / before / I opened the door. / No error.

(B)

(B)

(C)

(A)

(A)

154.	Α (	Ommission (A)		appointed / to invest (B)		/ int	o this scandal. (C)	/ No er (D)		
155.	Eac	ch of the st	udents / sta	and up and say Yes	r*					
	when his or her name is called by the teache (C)			er. / No error. (D)						
Directions: In questions no. 156 to 160, sentences are given with blanks to be filled in with an appropriate word (s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate oval [ ].						four alternatives, choose the one which best expresses the meaning of the given word.				
appr	opria	te ovat [ 🗢	J.				Stupid	(B)	Insignificant	
156.	ille		(B)	Metro now. It is needn't are not allowed to orrow.	162.	(C) Irrelevant (D) Unpopular  Competent (A) Intelligent (B) Experienced				
157.	It (A)		y hot tomo:			(C)	Efficient udiced	(D)	Suitable	
		is being		has been	100,	(A)	Biased	(B)	Confused	
158.	1 an (A) (C)	noticing watching	(B)	looking seeing	164.		nument	(D)	Foolish	
	(A)	on	(B)			(C)	Mausoleum Tomb	(B) (D)	Epitaph Memorial	
	, j	across		through	165.			(D)		
100.	-	little		of money she had. much			Concern Pressure	(B) (D)	Distress Trouble	
	(C)	the few	(D)	the little						

SPACE FOR ROUGH WORK

Directions: In questions no. 181 to 185, out of the Directions: In questions no. 191 to 200, you have a four alternatives choose the one which can be substituted for the given words / sentence.

- 181. A large food basket with a cover
  - (A) hamper
- (B) knapsack
- (C) satchel
- (D) container
- Stealing goods while shopping
  - (A) shop-lifting
- (B) burglary
- (C) plagiarism
- (D) window-shopping
- 183. Place for keeping birds
  - (A) aquarium
- (B) gymnasium
- (C) aviary
- (D) aerodrome
- 184. That cannot be overcome
  - (A) insurmountable
- (B) invincible
- (C) inseparable
- (D) insoluble
- 185. Number of things or portions close together without order or arrangement.
  - (A) huddle
- (B) assembly
- (C) mass
- (D) gathering

Directions: In questions no. 186 to 190, there are four different words out of which one is correctly spelt. Find the correctly spelt word and indicate it by blackening the appropriate oval ( ).

- 186. (A) Perseverence
- (B) Perseverance
- (C) Perseveranse
- (D) Peseverance
- 187. (A) Recommendation (B) Recommendation
- ses
- Recommendation (D) Recammendation
- 188. (A) Grievence
- (B) Greivence
- (C) Grievance
- (D) Grrievance
- 189. (A) Dictionery
- (B) Dicctionary
- (C) Dictionary
- (D) Dictionnery
- 190. (A) Appalled
- (B) Apalled
- (C) Appaled
- (D) Apallad

passage with 10 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

> Everyone keeps looking for signs of water. Then one day the men see patches of green grass. There are pools of water in the hollows. Men and animals begin to hurry, for they know that rain has fallen nearby. Farther on, they find enough grass for pasture and enough water in the hollows for their animals. Chief Omar gives the signal to make camp.

> Again the camels kneel. And again the men unload them. Quickly they put up their tents, with the openings facing east. They spread rugs and blankets on the ground and place pillows on them.

> A blanket divides the tent into two rooms. Then they unload the dishes and pots and bags of food and water. And once more the nomads are at home.

> Meanwhile the thirsty animals take a long drink at the water holes. The goats drink first. Next come the sheep. Then come the camels. They are the thirstiest of all. They drink and drink. They have travelled for days without water. But at last they, too, turn away.

> Rain has fallen here, and there will be pasture for many weeks. The animals will grow fat on the green grass. Then the men will choose the animals they want to sell. After they shear the sheep and fill the bags with wool, they will go to the big town on the oasis.

> Again the nomads break camp and move on. They pitch their tents on the sand at the edge of the oasis. The first days in town are exciting days. There is the excitement of seeing shops and streets and crowds of people. The men must sell their animals and wool, and buy supplies. They bargain at the bazaars, and they drink coffee in the cool shade and listen to the sound of flowing