PART-I GENERAL INTELLIGENCE

Directions: In Question Nos. 1 to 7, find the odd number / letters / figure / number pair from the given alternatives.

- (A) Respiration
 - (B) Digestion
 - (C) Disease
 - (D) Blood pressure
- (A) AZBY
 - (B) CXDW
 - (C) GTHR
 - (D) EVFU
- (A) BCDF
 - (B) AEIO
 - (C) GHTK
 - (D) RNWX
- (A) 9
- (B) 28
- (C) 126
- (D) 64
- (A) 24-81
 - (B) 33-91
 - (C) 28-44
 - (D) 20-11

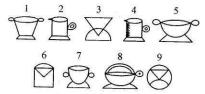
- (A) (B) (C) (D)
- (A) (B) (C) (D)

Directions: (Question Nos. 8-9) Which one of the given responses can be added to all the given letters to make meaningful words?

- (1) Character
 - (2) Story
 - (3) **Editing**
 - (4) Plot
 - (5) Publishing
 - (A) 1, 2, 3, 4, 5
 - (B) 4, 1, 2, 5, 3
 - (C) 1, 4, 3, 2, 5
 - (D) 4, 1, 2, 3, 5
- (1) Yarn
 - (2) Plant
 - (3) Saree
 - (4)
 - Cotton
 - (5) Cloth
 - (A) 2, 1, 4, 5, 3
 - (B) 2, 4, 5, 1, 3
 - (C) 2, 4, 1, 5, 3 (D) 1, 2, 3, 5, 4

Directions: (Question No. 10) Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

- **10.** _ab_a_bab__bbabb_
 - (A) bbbbaa
 - (B) ababbb
 - (C) aabaab
 - (D) bbaaba
- 11. A series of figures is given which can be grouped into classes. From the responses, select the groups into which the figures can be classified:

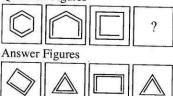


- (A) 124 | 369 | 578
- (B) 157 | 248 | 369
- (C) 136 | 257 | 149
- (D) 369 257 142

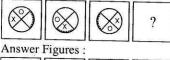
Directions: (Question Nos. 12 to 15). A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

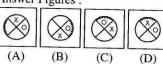
- 12. NOM, OPN, PQO, ?
 - (A) RQP
 - (B) OQP
 - (C) QRP
 - (D) RPO

- **13.** 62, 57, 68, 52, 74, 47, 80, _? , _?
 - (A) 41,83
 - (B) 42, 86
 - (C) 43, 85
 - (D) 46, 88
- 14. Question Figures



15. Question Figures:



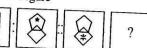


Directions : In Question Nos. 16 to 23, select the related letters / word / number / figure from the given alternatives.

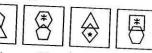
- 16. den: lion:: coop:?
 - (A) duck
 - (B) swan
 - (C) hen
 - (D) deer

- 17. Anarchy: Lawlessness:: Anaemia:?
 - (A) Fearlessness
 - (B) Colourlessness
 - (C) Shapelessness
 - (D) Bloodlessness
- 18. Optician: Eyes:: Geriatric:?
 - (A) Young
 - (B) Needy
 - (C) Old Age
 - (D) New Born
- 19. BYDW: FUHS:: AZCX:?
 - (A) EVGT
 - (B) FVGT
 - (C) FVHT
 - (D) EVHT
- **20.** BOQD : ERTG : : ANPC : ?
 - (A) DQSF
 - (B) FSHU
 - (C) SHFU
 - (D) DSQF

- **21.** 3:28::5:?
 - (A) 179
- (B) 126
- (C) 124
- (D) 125
- **22.** $(2)_{6}$: 121 : : $(4)_{8}$: 1
 - (A) 89
 - (B) 96
 - (C) 225
 - (D) 209
- 23. Question Figure



Answer Figures



- (A) (B) (C) (D)
- 24. In a row of boys, Sachin is 21st from the left and Rahul is 12th from right. On interchanging their places, Rahul becomes 17th from right. How many boys are there in a row?
 - (A) 36
 - (B) 38
 - (C) 37
 - (D) 35

- 25. A after arriving at a place of appointment on Sunday, found that he was 3 days earlier than 'B' who was 2 days late. If A had reached there on the following Thursday, how many days early or late would A have been?
 - (A) 2 days early
 - (B) 2 days late
 - (C) 3 days late
 - (D) 4 days early
- 26. In a group of 26 persons, 15 like tea. while 18 like coffee, there is none who dislikes both. The number of persons who like both tea and coffee is
 - (A) 9
 - (B) 7
 - (C) 5
 - (D) 3

Directions: In Question No. 27 from the given alternatives, select the word which cannot be formed using the letters of the given word.

- 27. ENGINEERING
 - (A) GINGER
 - (B) ENGINE
 - (C) NEARER
 - (D) RING

Directions: In Question Nos. 28 to 30, select the missing number from the given alternatives.

- 28. 7 8 4
 - 5 6 2
 - 35 48 ?
 - 47 62 14
 - (A) 5
 - (B) 6
 - (C) 7
 - (D) 8

29. 5 84 8





- (A) 26
- (B) 24
- (C) 42
- (D) 36
- 30. 32 (40) 12
 - 51 (36) 33
 - 67 (?) 55
 - (A) 24
 - (B) 20
 - (C) 18
 - (D) 12

- 31. If 3 * 5 * 4 = 6, 2 * 7 * 5 = 7, 1 * 3 * 8 = 6, then what will be the value of 1 * 3 * 6?
 - (A) I
 - (B) 5
 - (C) = 0
 - (D) 8
- 32. If stands for addition, + for division, + for multiplication and × for subtraction, then which of the following is correct?
 - (A) $6 \times 3 + 9 \div 4 2 = 15$
 - (B) $6 \div 3 9 \times 4 + 2 = 10$
 - (C) $6 + 3 \div 9 4 \times 2 = 20$
 - (D) $6 3 \times 9 + 4 \div 2 = 17$
- 33. Among the four answer figures, which one can be formed from the cut out pieces given below in the question figure?





(A) (



(C)

(B)

(D)

34. Directions: Four views of a cube are given below. Study each view and answer the question given below them.

Question Figures



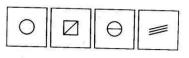
1

2

374

Question: In Figure 1, which symbol is below the square ?

Answer Figures



(C)

- (A)
- (B)
- (D)

35. How many triangles are there in the given question figure?



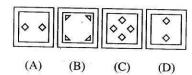
- (A) 10
- (B) 8
- (C) 12
- (D) 14

Directions: (Question No. 36) 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.

36. Question Figures



Answer Figures

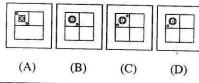


37. A transparent sheet with a pattern is given. How the pattern would appear when the sheet is folded at the dotted lines?

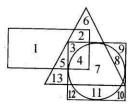
Question Figure



Answer Figures



Directions: (Question No. 38) In the following diagram, rectangle represents Hindi Announcers, circle English Announcers, Square French Announcers and triangle represents German Announcers. Study the diagram.



- **38.** Which area represents those announcers who can present programmes in Hindi, French and German only?
 - (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
- 39. Which of the following correctly illustrate the relationship among the classes:

Carrot, Food, Vegetable

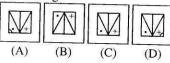
- (A) (OO)
- (B) Ø
- (C)
- (D) (O)

Directions: In Question Nos. **40** to **41**, which answer figure will complete the pattern in the question figure?

40. Question Figure



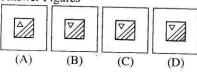
Answer Figures



41. Question Figure



Answer Figures

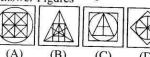


Directions: In Question Nos. 42 to 43 from the given answer figures, select the one in which the question figure is hidden / embedded.

42. Question Figure



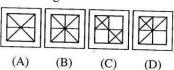
Answer Figures



43. Question Figure



Answer Figures



44. If the letters given below are arranged to form a sensible word, what will be the last letter of the word?

LIBNARJ

- (A) R
- (B) L
- (C) N
- (D) J
- 45. Sanjay is standing facing south. He walks 10 km straight, turns right and walks another 10 km straight, turns left and walks 10 km straight and, finally turns left and walks 5 km to reach a hotel. Which direction is he facing now?
 - (A) North
 - (B) South
 - (C) East
 - (D) West

- 46. A and B start together from one point. They walk 10 km towards north. A turns left and covers 5 km whereas B turns right and covers 3 km. A turns left again and covers 15 km whereas B turns right and covers 15 km. How far is A from B?
 - (A) 18 km
 - (B) 10 km
 - (C) 5 km
 - (D) 8 km
- 47. If "PRICE" is coded as 11 9 18 24 22, then HIGH is coded as
 - (A) <u>19 20 18 19</u>
 - (B) <u>17 18 20 17</u>
 - (C) 8978
 - (D) <u>19 18 20 19</u>
- 48. If 'EDUCATION' is coded as 2 D 5 C 1 T 3 4 N, how can 'AUTOMOBILE' be coded?
 - (A) 15T4M4B3L2
 - (B) 14T3M3B2L5
 - (C) 2U5O1O3I4E
 - (D) 31T2M2B4L5

Directions: In Question Nos. 49 and 50, one / two statements are given followed by two conclusions / Assumptions I and II. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions / Assumptions, if any, follow from the given statements.

- **49. Statements :** 1. All players are educated.
 - 2. All educated are cultured So
 - Conclusions: I. All players are cultured.
 - II. All cultured persons are players.
 - (A) Only I follows.
 - (B) Only II follows.
 - (C) Both I and II follows.
 - (D) Neither I nor II follows.
- 0. Statement : Education of the masses leads to a steady loss of the hold of caste in the
 - Assumptions: I. There is a direct relation between educational progress and decline of casteism.
 - II. Casteism can make considerable contribution to society.
 - (A) Only assumption I is implicit.
 - (B) Only assumption II is implicit.
 - (C) Both assumptions I & II are implicit.
 - (D) Neither assumption I nor II is implicit.

PART – II ENGLISH LANGUAGE

have sent recta appr erro	ections: In Question Nos. 51 to 55, we of the sentences have errors and some en none. Find out which part of a ence has an error and blacken the angle [] corresponding to the ropriate letter (A, B, C). If there is no r, blacken the rectangle [] esponding to (D) in the Answer Sheet.	sent in w are corr indi	ences /ith apsugges ect a cate i	are given with propriate word sted for each qual ternative out	on Nos. 56 to blanks to be fi s. Four alternat destion. Choose of the four ing the appropriase of sect.	illed ives the and
51.	The Secretary and the Manager (A)	56.	He s	at the tal	ole, writing a let	tter.
	goes to London next week. No error. (B) (C) (D)	26 13	(A)	across		
52.	I suggest you to become an engineer. (A) (B) (C)		(B) (C)	over by		
	No error. (D)		(D)	at		
53.	The courses in an autonomous college (A)	57.	My s	ister me	when I was ill.	
	are different from a non-autonomous college (B)	1,00	(A)	called on		2 W
	because of the freedom allowed to	F _S	(B)	called out		4.8
	an autonomous college. (C)		(C)	called off	an and	
	No error. (D)	36	(D)	called in	10 20	31 35 T
54.	The jury was unanimous		19 15 15			
· ·	(A) (B) in the Verdict. No error.	58.	musi		by the soperated with	
	(C) (D)	E E	(A)	carried over	ute pam.	
55.	You will be suspended unless you		(B)	carried away		
84 E	(A) (B) do not pay your fees. No error.		(C)	carried on		
	(C) (D)		(D)	carried out		
112 1	MN 2	8			CA 201	ΩT

PART – II ENGLISH LANGUAGE

som have sente recta appr error	ections: In Question Nos. 51 to 55, e of the sentences have errors and some e none. Find out which part of a ence has an error and blacken the angle [] corresponding to the ropriate letter (A, B, C). If there is no r, blacken the rectangle [] esponding to (D) in the Answer Sheet.	Directions: In Question Nos. 56 to 60 sentences are given with blanks to be filled in with appropriate words. Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate rectangle in the Answer Sheet.					
51.	The Secretary and the Manager (A)	56.	He sat the table, writing a letter.				
	goes to London next week. No error. (B) (C) (D)		(A) across				
52.	I angest you to become	· · · · · · ·	(B) over				
34.	I suggest you to become an engineer. (A) (B) (C)	-	(C) by				
	No error.		(Ď) at				
	(D)						
53.	The courses in an autonomous college						
55.	(A)	57.	My sister me when I was ill.				
	are different from a non-autonomous college		(A) called on				
8	(B)	100					
	because of the freedom allowed to	955	(B) called out				
	an autonomous college.		(C) called off				
, ⁶³	(C) No error.		(D) called in				
	(D)						
		**					
54.	The jury was unanimous (A) (B)	58.	The patient was so by the soft				
	in the Verdict. No error.	836	music that he cooperated with the				
	(C) (D)	2 10	doctor in spite of acute pain.				
			(A) carried over				
55.	You will be suspended unless you		(B) carried away				
* 5	(A) (B)	(n) (n)	20 M				
	do not pay your fees. No error.		(C) carried on				
	(C) (D)		(D) carried out				
112 N	MN 2 1	8	CA-2010-I				
	10 m at 15 m						

For Targets and the			× a _w						3
engener B.								\$0	
	84.	जब तक साहब न	हीं आ जाते आप	प्रहण	88	यश			
		करें।	,		8	(A)	सुयश		10 90
		(A) आसन	. 1	- 10 ⁰⁰ (5	10 m	(B)	'अपमान	•	
		(B) आसन्न		inar at	5.0				
		(C) बासन				(C)	अपयश		£
				9		(D)	दुर्यश		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80	(D) राशन		ar y s			** **	79. 6	
3 ⁸	2 5			a S	89.	कृतज्ञ	\$7 KE		
	85.		जागरूक विद्यार्थ	र्गि रात-भर		(A)	कृपालु		
	2.80	रहते हैं	1	17.					2000 12 10
V		(A) जागते		8		(B)	कठोर		
		(B) पढ़ते	9.78		8	(C)	क्रोधी		
		(C) पड़ते	B			(D)	कृतघ्न		
		(D) लिखते	10 E		a a				
NA.		(D) Might	3 x	10 N 10	90.	प्रत्यक्ष			
		8 1	2.00 March 200			(A)	पीछे	er oger	
	निदेश	ा : प्रश्न संख्या 86	से 90 में दिये हुए प्र	ात्येक शब्द	N.		197	4	
		का ।वलाम चुनन हैं । उचित विकल	के लिए चार विकल्प । का चयन कीजिए	र प्रस्तावित	*	(B)			
	19	पुस्तिका में तदनुसा		तथा उत्तर-		(C)	परीक्ष्य		N .
19	14					(D)	सूक्ष्म		W W
Asset 1	86.	उत्थान	S a estg		185	я .		10 A 2	
	00.	AND THE REAL PROPERTY OF THE P			निर्देश	: प्रश्न	संख्या 91 से	95 में दिये ह	ए प्रत्येक शब्द
		(A) स्थान	76 (E)			की वर्त	नीं के लिए च	ार विकल्प दिर	गए हैं। इनमें
v. 5		(B) प्रस्थान				से केव	ल एक विकल	न में शब्द की	शुद्ध वर्तनी है ।
	x ³	(C) वितान	* 3	. 1		उसे चु	नेए तथा उत्तर	-पुस्तिका में	तदनुसार काला
1		(D) पतन		ŀ		कीजिए	ı	,	
		36 21	8						
	87.	हस्व	188	2	91.	आदरनी	य .	a ²⁷	
		(A) दीर्घ	N 90			(A)	आदरनीय	IN NO	
		(B) स्थूल		2 1		(B)	आदरणीय	· · · · · · · · · · · · · · · · · · ·	
		(C) लघु					आदर्नीय		- 40 34
		(D) महत्तम	F 90						10 120 W
	112 N		** N			(D)	आद्रणीय	**	8
	112	/III 4 Z		. 22					CA-2010-I
					И :			29	
	~ 8 1	1 180 0				3 2			

PART – III GENERAL AWARENESS

101. SQL in Computer Science stands for	106. Earth is protected from ultra-violet
(A) Sorted Query Language	radiation by means of
(B) Structured Quick Language	(A) Oxygen layer
(C) Structured Query Language	(B) Ozone layer
(D) Structured Quick Launch	(C) Nitrogen layer
	(D) Carbon dioxide layer
102. Which of the following is not a part of	
the processor of a computer?	107. The highest policy-making body in
(A) ALU	national planning in India is
(B) CU	(A) Administrative Reforms
(C) Registers	Commission
(D) RAM	(B) Finance Commission
**************************************	(C) Inter-State Council
103. Rotation of crop is essential	(D) National Development Council
(A) for increasing the quantity of	
minerals.	108. Which one of the following is an
(B) for increasing the quantity of	example of fixed cost?
proteins.	(A) Price of raw material
(C) for getting different kinds of	(B) Fuel and power charges
crops.	(C) Rent for building
(D) for increasing the fertility of the	(D) Wage for casual labour
soil.	
104 TL	109. The principle of population was
104. The major component in CNG is (A) ethane	propounded by
	(A) Gardener
(B) propane	(B) Odum
(C) butane	(C) Darwin
(D) methane	(D) Malthus
105 W 11-	No.
105. World Environment Day is celebrated on	110. The public, private, cooperative and
(A) June 5	joint sectors exist in a
	(A) Mixed economy
(B) February 28 (C) November 14	(B) Socialist economy
	(C) Communist economy
(D) July 15 112 MN 2	(D) Capitalistic economy
112 MN 2 24	CA-2010-I

n g v	
111. The State which stands first in software exports from India is	116. Who spoke in Hindi for the first time
(A) Maharashtra	in the UNO General Assembly?
(A) Manarashtra (B) Tamil Nadu	(A) Indira Gandhi
(C) Karnataka	(B) P. V. Narasimha Rao
(D) Andhra Pradesh	(C) Atal Bihari Vajpayee
	(D) Rajiv Gandhi
112. Panchayats were given constitutional	
status by the amendment to	117. How many expeditions did Babur lead
the Constitution.	to occupy Delhi?
(A) 75 th	(A) Three
(B) 74 th	(B) Four
(C) 73 rd	
(D) 72 nd	(C) Five
12 The D	(D) Six
113. The President can declare a national	The last terms of the second
emergency on (A) his own	118. Which one of the following
(A) his own (B) the written recommendation of	monuments has the second largest
(B) the written recommendation of the Prime Minister	dome in the world?
(C) the basis of the report of the	(A) Quwat-ul-Islam Masjid
Governor of a State,	(B) Gol Gumbaz
(D) the written recommendation of	(C) Jamat Khana Masjid
the Union Cabinet.	(D) Alai Darwaza
14. Sarkaria Commission was set up for	119. During whose T. TV
reviewing the relations between	119. During whose reign Fa-Hien visited India?
(A) Centre and States	V
(B) Legislature and Executive	(A) Sri Gupta
(C) Executive and Judiciary	(B) Samudragupta
(D) The Prime Minister and the	(C) Chandragupta I
President	(D) Chandragupta II
5 Tourism	
5. To raise a discussion in the House on a	120. The slave king who got the title 'Lakh
matter of urgent public importance, which motion is used?	Baksh' was
(A) Censure	(A) Iltutmish
(B) Adjournment	(B) Razia
(C) Calling attention	The second secon
(D) Cut motions	(C) Qutbudin Aibak
	(D) Balban
2 MN 2 26	6 CA-2010-I

			*		The second second
21.		was the first Indian soldier to e to use the greased cartridge?	126.		largest number of Cotton ving mills are located in
	(A)	Nana Saheb		(A)	Tamil Nadu
	(B)	Bahadur Shah		(B)	Uttar Pradesh
	(C)	Mangal Pandey	8:	(C)	Maharashtra
	(D)	Tantia Tope		92 (45)	Gujarat
		* *	N 19	(2)	Sojutu
22.	Vasco	da Gama discovered sea route	127	Uibo	
	to		12/.		rnation phenomenon is noticed in
	(A)	N. America			Cosmonauts
	(B)	S. America	75 18 ₁ 25	(B)	Avians
	(C)	India		(C)	Mammalians
	(D)	Australia		(D)	Amphibians
	80.00		120	Dom	
23.		river rises in mountains.	120.	a Albania	gue is a
	(A)	Eastern Ghat '		(A)	viral infection
	(B)	Western Ghat		(B)	fungal infection
	(C)	Satpura		(C)	bacterial infection
	(D)	Vindhya		(D)	protozoan infection
			* 1.70		
24.		major goal of the Green lution has been to	129.	Cock	croaches, prawns and crabs
	(A)	Decrease the use of modern		(A)	Simple eyes
39		farm machinery.	en La	(B)	Compound eyes
	(B)	Decrease Population growth.		(C)	Parietal eyes
	(C)	Increase agricultural output.	e w		
	(D)	Increase the number of traditional farms.		(D)	No eyes
		9 2	130.	Bio-	diesel, a kind of non-conventional
25.		orld's most important renewable		sourc	ce of energy, which is obtained
	80 200 00	y resource is	10 10 10	(A)	Sugarcane
	(A)	Natural vegetation	3 3	(B)	Jatropha
	(B)	Water		(C)	Castor plant
	(C)	Solar radiation	g a Lar		V
83 10 20		Tidal waves	I so	(D)	Mustard plant
2 N	MN 2	2	28		CA-2010-I

131.	Photos	synthesis occurs	136.	The	tides in the ocean are due to		
	(A)	only in leaves	9	(A)	Wind over the Oceans	17981	
		only in stems	- 1	(B)	Gravitational pull of the Moon		
		in all green parts of plants	*	(C)	Rotation of the Earth	.	
		in the roots		(D)	Revolution of the Earth	2 3	
	81.7			(D)	According of the Latth		
132.	Banan	a leaves on maturity tear into	137.	Oil-f	ires are extinguished by		
		is to avoid		(A)	Soda-acid fire extinguisher		
	(A)	desiccation	N I	(B)	Foam-type fire extinguisher	Ø €	
		air resistance		(C)	Carbon-tetrachloride fire		
	W 880	scorching sunlight		(0)	extinguisher	27	
		mutual shading		(D)	Simply by water		
				(-)	Simply by water		
133.	The s	ubstance which changes from	138.	The	apparatus used for measuring the		
		to vapour state at normal	200		change is called		20
		pheric pressure without being		(A)	Thermometer	4	
	liquefi			(B)	Voltameter	1	
	(A)	Ice		(C)	Voltmeter		
	(B)	Mercury		(D)	Calorimeter	9 a	
		Camphor	TV .	(-)			
		Bismuth	139.	Plast	er of Paris hardens by	*	
				(A)	combining with water	75. 75.	
134.	Which	energy comes from Sun?		(B)	giving out water		
		Wind energy		(C)	giving out CO ₂	54. 50.	
		Thermal energy	* 1	(D)	combining with CO ₂		
		Tidal energy	2 2 2			33 T	
		Hydel energy	140	Germ	nan Silver is an alloy of	1	
	3 80 10		110.	(A)	Silver and Copper		
135.	The tu	ngsten wire in coiled form in		(B)	Silver and Aluminium		
		bulb has		(C)	Copper, Zinc and Nickel	8	200
	(A) 1	ower melting point and lower	* #	(D)	Nickel and Aluminium		
		resistance			Nickel and Aluminium	•	
	(B) 1	ower melting point and higher	141	What	was the name accorded to the	a T	
18		resistance	171.		ary Operation in Kargil in 1999?	•	
	(C) h	nigher melting point and lower		(A)	Operation Pawan	300	
	r	resistance		(B)	Operation Poomalai		
	(D) h	nigher melting point and higher		(C)	Operation Vijay		
		esistance		(D)	Operation Vijay Operation Brasstacks	*	
	MN 2	30	25		Operation Brasslacks		

- **142.** The film 'Slumdog Millionaire' is based on the book 'Question & Answer' written by
 - (A) Bhisham Swarup
 - (B) Vikas Swarup
 - (C) Vimal Swarup
 - (D) Vinay Swarup
- 143. The International Hockey Tournament in which only the top six nations (judged by their rankings) are invited to take part is
 - (A) Champions Trophy
 - (B) Azlan Shah Cup
 - (C) World Cup
 - (D) Champions Challenge Trophy.
- 144. Pankaj Advani has won the World Professional Billiard Championship, 2009 defeating in the final
 - (A) Geet Sethi
 - (B) Robert Frost
 - (C) Om Agarwal
 - (D) Mike Russel
- **145.** To whom did India beat to lift the ONGC Nehru Cup, 2009?
 - (A) Japan
 - (B) Somalia
 - (C) Syria
 - (D) Afghanistan
- **146.** The recipient of the 42nd Jnan Peeth Award this year is
 - (A) Manohar Shashtri
 - (B) Satya Vrat Shashtri
 - (C) K. Kaushal Panda
 - (D) Mahavir Shashtri
- 112 MN 2

- **147.** Who has won the 100 metres sprints at the British Grand Prix recently?
 - (A) Tyson Gray
 - (B) Usain Bolt
 - (C) Kim Collins
 - (D) Mario Burns
- 148. The World Badminton Federation declared the Indian Shuttler, Saina Nehwal, as
 - (A) The most promising player of 2008
 - (B) The leading player of 2008
 - (C) The most popular player of 2008
 - (D) The emerging player of 2008
- 149. The first sister from India to be conferred the Sainthood by Pope Benedict XVI is
 - (A) Sister Desouza
 - (B) Sister Nirmala
 - (C) Sister Alphensa
 - (D) Sister Madorana
- 150. The three countries in serial order which won the highest number of Gold Medals in the Beijing Olympics are
 - (A) China, U.S.A, Russia
 - (B) China, U.S.A, Germany
 - (C) China, Germany, Australia
 - (D) China, Australia, Canada

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PART – IV NUMERICAL APTITUDE

- 151. The boys of a class are made to stand in a queue. Amit is standing at 15th place from both ends. How many boys are there in the queue?
 - (A) 31
 - (B) 30
 - (C) 29
 - (D) 28
- **152.** If the sum of a rational number and its reciprocal is 13/6, then the number is
 - (A) $\frac{1}{2}$
 - (B) $\frac{1}{6}$
 - (C) $\frac{2}{3}$
 - (D) $\frac{5}{6}$
- 153. In a group of students; 30 students play Cricket, 20 play Tennis and in all 35 play either Cricket or Tennis. How many students play both Cricket and Tennis?
 - (A) 10
 - (B) 12
 - (C) 15
 - (D) 18

- **154.** Simplified value of $\frac{(15.4)^2 (35.4)^2}{25}$ is
 - (A) -40.64
 - (B) -10.16
 - (C) 40.64
 - (D) 50.80
- 155. Simplified value of

$$\frac{(0.361)^3 + (0.639)^3}{(0.361)^2 - 0.361 \times 0.639 + (0.639)^2}$$
 is

- (A) 1
- (B) 361
- (C) 639
- (D) 1000
- **156.** If the sum of one-half, one-third and one-fourth of a number exceeds the number by 12, then the number is
 - (A) 90
 - (B) 144
 - (C) 154
 - (D) 174
- 157. $32^{\frac{4}{5}} + 32^{-\frac{4}{5}}$ is equal to
 - (A) 32
 - (B) $16\frac{1}{16}$
 - (C) $15\frac{15}{16}$
 - (D)

158. If $\frac{a}{b} = \frac{5}{3}$ and 8a + 5b = 22, then a is equal to

- (A) 2
- (B) 4
- (C) 5
- (D) 6

159. $\frac{(698 + 198)^2 - (698 - 198)^2}{698 \times 198}$ is equal to

- (A) 2
- (B) 4
- (C) 9854
- (D) 9874

160. The cube root of

 $0.027 + 0.064 + 3 \times 0.12 \times 0.7$ is

- (A) 0.30
- (B) 0.40
- (C) 0.12
- (D) 0.70

161. $\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}} + \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}$ is equal to

- (A) 3.464
- (B) 2.828
- (C) 1
- (D) 10

162. $\sqrt{3\sqrt{3\sqrt{3\sqrt{3\sqrt{3}}}}}$ is equal to

- (A) $3^{\frac{33}{32}}$
- (B) $3^{\frac{27}{32}}$
- (C) $3^{\frac{31}{32}}$
- (D) $3^{\frac{5}{32}}$

163. $35 \times 35 \times 35 - 25 \times 25 \times 25 - 10 \times 10 \times 10$ is equal to

- (A) 26,250
- (B) 17,500
- (C) 8,750
- (D) .0

164. $\sqrt[3]{\frac{7}{2401}}$ is equal to

- (A) $\frac{1}{0}$
- (B) $\frac{1}{7}$
- (C) $\frac{1}{21}$
- (D) $\frac{1}{13}$

- **165.** $\sqrt{7+2\sqrt{12}} + \sqrt{7-2\sqrt{12}}$ is equal to
 - (A) 4
 - (B) $4\sqrt{3}$
 - (C) 6
 - (D) $6\sqrt{2}$
- 166. The smallest perfect square number, which is divisible by each of 2, 3, 4, 5 and 6, is
 - (A) 600
 - (B) 840
 - (C) 900
 - (D) 1600
- **167.** $\left(1 \frac{1}{2}\right) \left(1 \frac{1}{3}\right) \left(1 \frac{1}{4}\right) \left(1 \frac{1}{5}\right) \dots \left(1 \frac{1}{100}\right)$ is equal to
 - (A) $\frac{1}{120}$
 - (B) $\frac{1}{108}$
 - (C) $\frac{1}{100}$
 - (D) $\frac{1}{50}$
- **168.** The sum of the first 51 terms of the arithmetic progression, whose 26th term is 300, is
 - (A) 15,100
 - (B) 15,300
 - (C) 15,500
 - (D) 15,700

- 169. The sum of all even numbers upto 100 is
 - (A) 1000
 - (B) 2000
 - (C) 2500
 - (D) 2550
- 170. $\frac{1}{1 \times 4} + \frac{1}{4 \times 7} + \frac{1}{7 \times 10} + \frac{1}{10 \times 13}$ is equal to
 - (A) $\frac{2}{7}$
 - (B) $\frac{3}{13}$
 - (C) $\frac{3}{7}$
 - (D) $\frac{4}{13}$
- 171. The average of all odd numbers less than 100 is
 - (A) 49
 - (B) 50
 - (C) 51
 - (D) 52
- 172. A batsman has a certain average of runs for 11 innings played by him. In his 12th innings he scored 90 runs, thereby decreased his average of runs by 5. His average of runs for 12 innings is
 - (A) 217
 - (B) 150
 - (C) 145
 - (D) 127

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- 173. The average of monthly salaries of A, B and C is Rs. 40,000 and that of B, C and D is Rs. 50,000. If D's monthly salary is Rs. 60,000, then A's monthly salary is
 - (A) Rs. 30,000
 - (B) Rs. 40,000
 - (C) Rs. 50,000
 - (D) Rs. 60,000
- 174. The selling price of a commodity is reduced by 25%. As a result its daily sale is increased by 30%. Due to this effect the revenue collected, compared to the previous daily sale, will be
 - (A) 5% more
 - (B) 5% less
 - (C) 2.5% more
 - (D) 2.5% less
- 175. In an examination, a student got 30% marks out of 180 in the first paper of a subject. How much must he get in the second paper out of 150 so that he gets 50% marks in the subject?
 - (A) 70%
 - (B) 74%
 - (C) 76%
 - (D) 80%

- 176. Let us suppose that when water freezes in the form of ice, its volume is increased by 10%. What percent decrease will there be when ice melts in the form of water?
 - (A) 10
 - (B) 9
 - (C) $11\frac{1}{9}$
 - (D) $9\frac{1}{11}$
- 177. If A: B = 2: 3 and B: C = 4: 5, then 5A: 3C is
 - (A) 8:9
 - (A) 8:9
 - (B) 5:8
 - (C) 7:9
 - (D) 6:7
- 178. The ratio of two numbers is 5:8 and their difference is 69. The smaller of the two numbers is
 - (A) 184
 - (B) 140
 - (C) 115
 - (D) 108
- 179. The incomes of A and B are in the ratio
 3: 2 and their expenditures in the ratio
 5: 3. If each saves Rs. 10,000, A's income is
 - (A) Rs. 30,000
 - (B) Rs. 40,000
 - (C) Rs. 60,000
 - (D) Rs. 90,000

- 180. A person took two equal loans for 2 years and 3 years respectively each at 8% simple interest. If at the end of the terms, the difference of interests was Rs. 560, then the amount of each loan was
 - (A) Rs. 7,000
 - (B) Rs. 7,200
 - (C) Rs. 7,500
 - (D) Rs. 7,800
- 181. A sum of money at compound interest, compounded half-yearly becomes $\frac{676}{625}$ times of itself in one year. The rate of interest per annum is
 - (A) 10%
 - (B) 8%
 - (C) 6%
 - (D) 5%
- 182. A sum of money at compound interest amounts to Rs. 10,648 in 3 years and to Rs. 9,680 in 2 years. The rate of interest per annum is
 - (A) 20%
 - (B) 16%
 - (C) 15%
 - (D) 10%

- 183. Two successive discounts of 10% and 5% are equivalent to a single discount of
 - (A) 15%
 - (B) $7\frac{1}{2}\%$
 - (C) $12\frac{1}{2}\%$
 - (D) $14\frac{1}{2}\%$
- 184. The marked price of an article is 20% above its cost price. If the trader allows 20% discount on its marked price, he will get
 - (A) 4% profit
 - (B) 4% loss
 - (C) 5% profit
 - (D) 5% loss
- 185. A man can complete one-third of a work in 18 days. How many days will he need to complete 0.5 part of the work?
 - (A) 36
 - (B) 27
 - (C) 24
 - (D) 2

- 186. A and B together can do a piece of work in 12 days, B and C together in 15 days and C and A together in 20 days. In how many days can A alone do the same work?
 - (A) 22
 - (B) 25
 - (C) 30
 - (D) 40
- 187. A is twice as good a workman as B and together they complete a piece of work in 14 days. In how many days can A alone complete the work?
 - (A) 21
 - (B) 28
 - (C) 30
 - (D) 35
- 188. If 1 man or 2 women or 3 boys can do a piece of work in 55 days, in how many days, will 1 man, 1 woman and 1 boy together do the same work?
 - (A) 40
 - (B) 36
 - (C) 33
 - (D) 30
- 189. A car completes a certain journey in 8 hours. It covers half the distance at 40 km/hr and the rest at 60 km/hr. The length of the journey is
 - (A) 420 km
 - (B) 400 km
 - (C) 384 km
 - (D) 350 km

- 190. In going from station A to station B, a distance of 100 km, a train moves with speed 40 km/hr and in returning back from B to A, it runs with speed 60 km/hr. The average speed (in km/hr) of the train for the entire journey is
 - (A) 45
 - (B) 48
 - (C) 50
 - (D) 55
- 191. A man walking at 3 km/hr crosses a square field diagonally in 2 minutes. The area (in m²) of the field is
 - (A) 2500
 - (B) 3000
 - (C) 5000
 - (D) 6000
- 192. A runs twice as fast as B and B runs thrice as fast as C. In how many minutes, will the journey, covered by C in 42 minutes, be covered by A?
 - (A) 36
 - (B) 28
 - (C) 14
 - (D)
- 193. The total surface area of a solid hemisphere is 1848 cm². Its diameter is

$$\left(\text{use }\pi = \frac{22}{7}\right)$$

- (A) 28 cm
- (B) $14\sqrt{6}$ cm
- (C) $7\sqrt{6} \text{ cm}$
- (D) 14 cm

- 194. Each of the radius of a sphere and that of the base of a right circular cylinder is 3 cm. If their volumes are equal, the height (in cm) of the cylinder is
 - (A) 4.
 - (B) 9
 - (C) 12
 - (D) 22
- 195. The ratio of the area of an equilateral triangle and that of a square is $\sqrt{3}$: 2. If the length of a diagonal of the square is 60 cm, then the perimeter of the triangle is
 - (A) 150 cm
 - (B) 180 cm
 - (C) 210 cm
 - (D) 240 cm
- 196. The difference between the circumference and the diameter of a circle is 15 cm. The radius (in cm) of the circle is $\left(\text{Take } \pi = \frac{22}{7}\right)$
 - (A) 7
 - (B) 4.5
 - (C) 3.5
 - (D) 2.25

- 197. 6% more is gained by selling a radio for Rs. 475, than by selling it for Rs. 451. The cost price of the radio is
 - (A) Rs. 434
 - (B) Rs. 400
 - (C) Rs. 446.50
 - (D) Rs. 427.50
- 198. By selling an article for Rs. 255, a man incurs a loss of 15%. For what price should he sell it so that he makes a profit of 20%?
 - (A) Rs. 275
- (B) Rs. 300
- (C) Rs. 375
- (D) Rs. 360
- 199. A production-house sells their items at 20% profit. If the production cost is increased by 10%, but the selling price remains unaltered, the profit is
 - (A) $9\frac{1}{11}\%$
- (B) 10%
- (C) 11%
- (D) $11\frac{1}{9}\%$
- 200. A shop-keeper had to sell an article at 20% loss. He could gain 5%, if he had sold the article for Rs. 200 more. The cost price of the article was
 - (A) Rs. 700
 - (B) Rs. 800
 - (C) Rs. 900
 - (D) Rs. 1,000