Practice Set-5

Part—I General Intelligence

Directions—In questions 1 to 3, select the related letters/word/number from given alternatives.

- CAT: DDY:: BIG:?
 - (A) CLL
- (B) CLM
- (C) CML
- (D) CEP
- 2. AGMS: CIOU:: DJPV:?
 - (A) BHNY
- (B) STUV
- (C) FLRX
- (D) MNOP
- 3. 85:42::139:?
 - (A) 68
- Ban Youtub
- (C) 70
- (D) 67

Directions — In questions no. 4 and 5, find the odd number from the given alternatives.

- 4. (A) III
- (B) 242
- (C) 551
- (D) 383
- 5. (A) 80 9
- (B) 64-8
- (C) 36-6
- (D) 7-49

Directions—In questions 6 to 8, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

- 6. Y, S, N, J, G, ?
 - (A) F
- (B) E
- (C) H
- (D) I
- 7. ASY, BRX, CQW, ?
 - (A) DVP
- (B) DPV
- (C) PDV
- (D) PQD
- 8. 56, 42, 30, 20, ?, 6
 - (A) 15
- (B) 12
- (C) 18
- (D) 14

Find out the wrong number from the given series—

5, 27, 61, 122, 213, 340, 509

- (A) 27
- (B) 61
- (C) 122
- (D) 509
- 10. If $2 \times 2 = 16$, $2 \times 3 = 36$, $2 \times 4 = 64$, then $2 \times 6 = ?$
 - (A) 72
- (B) 80
- (C) 96
- (D) 144
- In the following series, the equations are solved on the basis of a certain system. Find out the correct answer for the unsolved equation on that basis.

9 × 8 × 6 = 896: 7 × 6 × 8 = 678:

- $8 \times 7 \times 5 = 2$
- (A) 875
- (B) 785
- (C) 578
- (D) 758
- If 'x' means '-', '-' means 'x', '+' means '+' and '+' means '+', then
 - $(15-10) \div (130+10) \times 50 = ?$
 - (A) 1800
- (B) 113
- (C) 2000
- (D) 123
- 13. Substitute the correct mathematical symbols in place of * in the following equation:

9

8

2

59

- (A) +-= ×
- (B) -x + =
- (C) + x = +
- (D) ++=-
- Find out the missing number.
 - 8 9
 - 6
- 7
- 9 11
- 39 52
- (B) 11
- (A) 10 (C) 12
- (D) 13

- 15. If 'EDITION' is written as 'IDETNOI' how is 'MEDICAL' written in that code?
 - (A) DEMILAC
- (B) LACIMED
- (C) DIEMCAL
- (D) CADILEM
- 16. If the letters in 'PRABA' are coded as 27595 and 'THILAK' are encoded 368451, how can 'BHARATHI' be coded?
 - (A) 96575368
- (B) 57686535
- (C) 96855368
- (D) 37536689
- 17. A father tells his son, "I was three times of your present age when you were born." If the father's present age is 48 years, how old was the boy 4 years ago?
 - (A) 24 years
- (B) 8 years
- (C) 12 years
- (D) 16 years
- 18. A and B are brother and sister respectively. C is A's father, D is C's sister and E is D's mother. How is B related to E?
 - (A) Grand-daughter
 - (B) Great-grand-daughter
 - (C) Aunt
 - (D) Daughter
- Join Youtub
- 19. Four persons M, N, O and P are playing cards. M is on the right of N and P is on the left of O. Then which of the following are partners?
 - (A) P and O
- (B) M and P
- (C) M and N
- (D) N and P
- 20. Two statements are given followed by two conclusions 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, if any, follow from the given statements.

Statements:

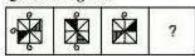
- 1. All English movies are violent.
- 2. Some people like watching English movies.

Conclusions:

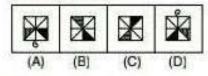
- All people watching English movies like violence.
- All people who like violence watch English movies.
- (A) Only I follows

- (B) Only II follows
- (C) Neither I nor II follows
- (D) Both I and II follow
- Select the missing figure from the given responses.

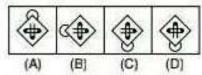
Question figures



Answer figures

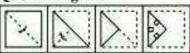


 Find the odd figure from the given alternatives.

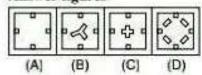


23. A paper is folded and cut as shown in the given question figures. When opened which of the four answer figures will it resemble?

Question figures



Answer figures

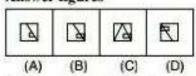


24. Which answer figure will complete the question figure?

Question figures



Answer figures



25. Which of the following figures represents the relationship between Building material, Cement and Wood?

ထွ	00	000	(a)
(A)	(B)	(C)	(D)

Directions—(Q. 26 to 30) Study the following information carefully and answer the question given below-

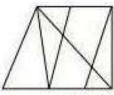
P, Q, R, S, T, V, W and Z are travelling to three destinations Delhi, Chennai and Hyderabad in three different vehicles-Honda City, Swift D'Zire and ford Ikon. There are three females among them one in each car. There are at least two persons in each car.

R is not travelling with Q and W. T. a male, is travelling with only Z and they are not travelling to Chennai. P is travelling is Honda City to Hyderabad. S is sister of P and travel by Ford Ikon. V and R travel together. W does not travel to Chennai.

- 26. Who is travelling with W?
 - (A) Only Q
 - (B) Only P
 - (C) Both P and O

- (D) Cannot be determined
- 27. Members in which of the following combinations are travelling in Honda City?
 - (A) PRS
- (B) POW
- (C) PWS
- (D) Data inadequate
- 28. In which car are four members travelling?
 - (A) None
- (B) Honda City
- (C) Swift D'zire
- (D) Ford Ikon
- Which of the following combinations represents the three female members ?
 - (A) QSZ
 - (B) WSZ
 - (C) PSZ
 - (D) Cannot be determined
- 30. Members in which car are travelling to Chennai?
 - (A) Honda City
 - (B) Swift D'Zire
 - (C) Ford Ikon
 - (D) Either Swift D'Zire or Ford Ikon

- 31. If C = 3, CEP = 24, then what will be the value of HUX?
 - (A) 47
- (B) 49
- (C) 51
- (D) 53
- 32. How many triangles are there in the following figure?

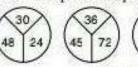


- (A) 8
- (B) 9
- (C) 12
- (D) 15
- Complete the series—

Sunday, Monday, Wednesday, Saturday, Wednesday, Monday,

- (A) Sunday, Sunday
- (B) Sunday, Monday
- (C) Sunday, Wednesday
- (D) Sunday, Saturday
- 34. Which one is the wrong term in the series?

 - (C) 83
- (D) 47
- 35. Which one will replace the question mark?



- (A) 40
- (B) 46
- (C) 96
- (D) 75
- 36. If '-' means addition, '+' means subtraction, 'x' means division and '+' means multiplication, then-

$$7 - 10 \times 5 \div 6 + 4 = ?$$

- (A) 3
- (B) 12
- (C) 15
- (D) 9
- 1. A3P means A is the mother of P.
 - A4P means A is the brother of P.
 - 3. A9P means A is the husband of P.
 - A5P means A is the daughter of P.

Which of the following means that K is the mother-in-law of M?

- (A) M9N3K4J
- (B) M9N5K3J
- (C) K5J9M3N
- (D) K3J9N4M

is different from other three responses.

- 38. (A) 9
- (B) 18
- (C) 117
- (D) 134
- 39. (A) Bangle
- (B) Wrist watch
- (C) Bracelet
- (D) Ring
- 40. (A) Spinach
- (B) Potato
- (C) Carrot
- (D) Ginger
- 41. (A) Car (C) Bus
- (B) Scooter (D) Bicycle

Directions-(Q. 42 and 43) Three of the following four are alike in a certain way (based on the English alphabetical series) and hence form a group. Which is the one that does not belong to that group?

- 42. (A) GKI
- (B) FJG
- (C) PIR
- (D) MQO
- 43. (A) CXBD
- (B) FUEG
- (C) DWCE
- (D) EVGH

44. A family has a man, his wife, their four sons and their wives. The family of every son ube also has 3 sons and 1 daughter. Find out the total no, of male members in the whole family-

- (A) 8
- (B) 12
- (C) 17
- (D) 23

45. In a row of boys, Deepak is 7th from left and Madhur is 12th from right. If they interchange their positions, Deepak becomes 22nd from the left. How many boys are there in the row?

- (A) 19
- (B) 31
- (C) 33
- (D) 18

46. Rajan is the brother of Sachin and Manik is the father of Rajan, Jagat is the brother of Priya and Priya is the daughter of Sachin. Who is the uncle of Jagat ?

- (A) Rajan
- (B) Sachin
- (C) Manik
- (D) Can't Say

47. If 'DISTANCE' is written as 'EKVXFTJM' then how should 'PRESENT' be written in the same code?

- (A) IDUJLAO
- (B) RCIBVZT
- (C) EKTRACQ
- (D) QTHWJTA

Directions—(Q. 38-41) Select the one which 48. What number will occur in the blank space at the end of the following series?

2-3, 4-6, 7-10, 11-15, 16-21, 22-7

- (A) 25
- (B) 27
- (C) 28
- (D) 29

49. A man is performing yoga with his head down legs up his face is towards the EAST. In which direction will his left hand be?

- (A) East
- (B) West
- (C) South
- (D) North

50. In the sequence AGLPS the next letter

- (A) B
- (B) R
- (C) T
- (D) U

Answers with Explanations

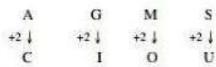
(A) As.



Similarly,



2. (C) As.



Similarly,

3. (B) As.

$$85 \implies 85 - 1 = 84 \implies 84 + 2 = 42$$

Similarly,

 $139 \Rightarrow 139 - 1 = 138$

$$\Rightarrow 138 + 2 = 69$$

- 4. (B) All the rest are odd numbers.
- (A) All the rest have numbers and its square.

6. (B)



7. (B)
$$A \xrightarrow{+1} B \xrightarrow{+1} C \xrightarrow{+1} D$$

 $S \xrightarrow{-1} R \xrightarrow{-1} Q \xrightarrow{-1} P$
 $Y \xrightarrow{-1} X \xrightarrow{-1} W \xrightarrow{-1} V$

10. (D)
$$2 \times 2 = 4 \Rightarrow (4)^2 = 16$$

 $2 \times 3 = 6 \Rightarrow (6)^2 = 36$
 $2 \times 4 = 8 \Rightarrow (8)^2 = 64$
 $2 \times 6 = 12$
 $\therefore ? = (12)^2 = 144$

11. (B) As,
$$9 \times 8 \times 6 \rightarrow 896$$

and $7 \times 6 \times 8 \rightarrow 678$

	P	R	A	В	A	
	1	1	1	1	1	
	2	7	5	9	5	
and	T	H	1	L	A	K
	4	1	1	1	1	1
	3	6	8	4	5	1

Similarly,

В	H	A	R	A	T	H	1
1	6	1	1	1	1	1	1
9	6	5	7	5	3	6	8

 (B) Let the present age of son is x years, then the age of father at the time of birth will be 3x years. Hence, as per question,

$$3x + x = 48$$

$$\Rightarrow 4x = 48$$

$$\therefore x = 12 \text{ years}$$

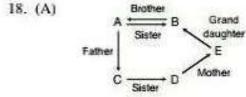
Hence, the age of son 4 years ago

$$= (12 - 4)$$
 years

Similarly, 8 x 7 x 5 → 785 oin Youtube Change

12. (B)
$$(15-10) + (130+10) \times 50$$

 $\Rightarrow (15 \times 10) + (130+10) - 50$
= $150 + 13 - 50$
= 113



13. (C) 16 * 4 * 5 * 14 * 6

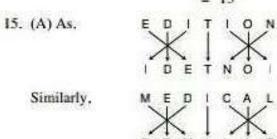
$$\Rightarrow 16+4\times5 = 14+6$$

$$\Rightarrow 4\times5 = 14+6$$

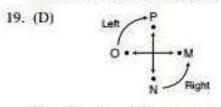
$$\Rightarrow 20 = 20$$

14. (D) As,
$$8 \times 6 - 9 = 39$$

and $9 \times 7 - 11 = 52$
Similarly, $9 \times 8 - ? = 59$
 \therefore $? = 72 - 59$
 $= 13$



Therefore B is the Grand-daughter of E.



Therefore N and P are partners.

- 20. (D)
- 21. (B) In each subsequent figure the lined and the shaded parts inside of square shift two block clock-wise and the designs out side of the square disappear one by one.
- (C) The circle is made on the square at the backside of the main design in the rest of others.
- 23. (D) 24. (B) 25. (B)

For Solution Q. 26 to 30:

Destination	Vehicles	Person
Delhi	Swift D'zire	T. Z
		Male Female
Chennai	Ford Ikon	S (Female)
		R (Male)
		V (Male)
Hyderahad	Honda City	P. W. Q
		Male

- 26. (C) Both P & Q are travelling with W.
- 27. (B) PQW are travelling in Honda City.
- 28. (A) None of these car are four members travelling.
- 29. (D) Three Female members can-not be determined.
- 30. (C) Members S. R. V in Ford Ikon car are travelling to Chennai.

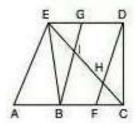
31. (D) If
$$C = 3$$

 $CEP = 3 + 5 + 16 = 24$
then, $HUX = 8 + 21 + 24 = 53$

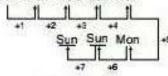
Which are-

32. (C) There are 12 triangles in the given figure.

Join AABE, ABIE, ABGE, AIGE, ABEC, ABIC,



33. (A) Sun Mon Wed Sat Wed



34. (D) 8 + 5 = 1313 + 8 = 2121 + 11 = 3232 + 14 = 4646 + 17 = 6363 + 20 = 83

> Now 47 is the wrong term in the given series. 46 comes instead of 47.

35. (C) It follows rule is-

$$24 \times 2 = 48$$
and
$$36 \times 2 = 72$$

$$\frac{24}{4} + 24 = 30$$

$$\frac{36}{4} + 36 = 9 + 36$$

$$= 45$$

Then,
$$48 \times 2 = 96$$

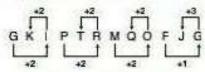
 $\frac{48}{4} + 48 = 12 + 48$
= 60

36. (C) According to question.

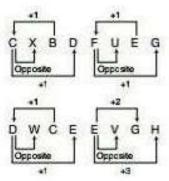
$$7-10 \times 5+6+4$$

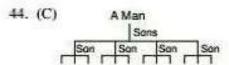
= $7+10+5 \times 6-4$
= $7+2 \times 6-4$
= $7+12-4$
= 15

- 37. (B) Mother Daughter Husband Mather-in-law
- Youtub Hence, Manskill mean that K is the motherin-law of M.
- ΔFHC, ΔFDC, ΔCHD, ΔCDE, ΔHDE, ΔAEC. 38. (D) Except 134, all numbers are divisible by
 - 39. (D) Except all, ring is wear in a finger.
 - 40. (A) Except spinach, all are to grow under soil.
 - 41. (D) Except Bicycle, all have four wheels.
 - 42. (B) Except FJG, all follow the same rule i.e.,



43. (D) Except EVGH, all follow the same rule ie.





Now total number of male members in whole family

$$= 1 + 4 + 4 \times 3$$

 $= 17$

After change the positions.

Hence, number of boys in the row

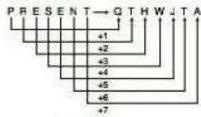
$$= 22 + 12 - 1$$

 $= 33$

Hence, Rajan is the uncle of Jagat.



Therefore.



48. (C)
$$3-2=1$$

 $6-4=2$
 $10-7=3$
 $15-11=4$

$$15 - 11 = 4$$

 $21 - 16 = 5$

Now.
$$22 + 6 = 28$$

49. (C) A man is performing yoga with his head down legs up his face is towards the East.

Hence, his left hand will be in South direction.

50. (D) A G L P S U

Part-II

English Language

Directions—(Q. 1-10) Some parts of the sentences have errors and some are correct. 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.

- Subha / is living / in Chennai since 1987.
 - (A) (B) (C)

No error (D)

- 2. He studied / so hardly / he was sure of
 (A) (B) (C)
- passing. No error (D)
- 3. Every child in the class/ are wearing / sandals

today. (B) (C)

No error
(D)

- 4. This errors / are made / by foreigners. Noerror.
 - (A) (B) (C) (D)
- 5. He is / fatter / than me. No error
 (A) (B) (C) (D)
- Sundar/is getting married/with Sita. No error
 (A) (B) (C) (D)
- 7. Though we both are of the same height / you
 (A)

are more heavier / than I. No error

(B) (C) (D)

On entering the crowding room / I could not
 (A)

see one person / whom I knew. No error
(B) (C) (D)

After rising the flag to / inaugurate the sports
 (A)

meet, the Chairman / gave a long speech.

(B) (C) No error (D)

10.	If your coming home tomorrow / let me know (A)			 Medical doctors should try to as many patients as possible. 					
	at what time / I can	expect you.	No error	(A)	hale	(B)	heel		
	(B)	(C)	(D)	1 2 7 1 7 7	heal	16366	kill		
wor	Directions—(Q. 11 h blanks to be fille rd(s). Four alternativ stion. Choose the co	d in with an a es are suggest	appropriate ed for each	alternati	ves, choose the ning of the gi	ne one wh	Out of the four nich best expresses and mark it in the		
	r and indicate it by	A SPORT AND A SPOR	appropriate	21. CL	ANDESTINE				
ova	I () in the Answer	Sheet.		(A)	Secret	(B)	Family		
11.	Will all of you	up for prayer	3	(C)	Useful	(D)	Dangerous		
	(A) race	(B) raise		22. EC	STASY				
	(C) rise	(D) raze		(A)	Extremism	(B)	Economy		
12.	A technology-stary	ed customer	would only	(C)	Eclipse	(D)	joy		
	be to be presented with a new product.			23. FE	TCH				
	(A) thrilled	(B) thrivin	g	(A)	Take	(B)	Order		
	(C) declarative	(D) irritable	le	(C)	Bring	(D)	Scoop		
13.	A number of refugees been turned back at the border.		Directions—(Q. 24-26) Choose the word opposite in meaning to the given word and mark it						
	(A) have	(B) are		in the Answer Sheet.					
	(C) has	(B) is in	Vout	u4beggressiyennel					
14.	Neither Shyam Rohit came to the school today.		(A)	Inactive Peaceful	(B)	Dull Doleful			
	(A) and	(B) but		25. Sta	Section Con-	3000			
	(C) or	(D) nor			Writing	(B)	Slowing		
15.	The art of cooking .	in ancie	ent India.	00000	Standing	1,500	Moving		
	(A) was perfected (C) will perfect	(B) is perfect (D) perfect	ected	26. Do	leful				
16		100		1,3,710,710	Beautiful		Mournful		
10.	Can you tell the difference butter and Margarine. (A) among (B) over		2177	Cheerful		Deceitful			
			Directions—(Q. 27–29) Four alternatives are						
	(C) with	(D) between	en	given for the Idiom/ Phrase bold in the se Choose the alternative which best expres					
17.	I'm not very good repair-ing things.					and mark it in the			
	(A) about (B) at		Answer Sheet.						
	(C) for	(D) in		27. The	music group	broke up	unceremoniously.		
18.	My father is very to me, we play football every evening.		(A)	Disbanded it Went bankru	self	0-1-1 (1/19-19-20-19-19-19-19-19-19-19-19-19-19-19-19-19-			
	(A) friendship (B) friendly		(C) Broke each other's instruments						
	(C) friends	(D) friend-		(D) Disturbed the neighbourhood					
19.	. He is getting married Maya.		28. She	vaguely tak	es after	her grandmother.			
	(A) to	(B) only			Accepts		Constitutes		
	(C) by	(D) with			Follows	377.07	Resembles		

- 29. I expect my friends to stand by me.
 - (A) Release
- (B) Energise
- (C) Support
- (D) Accompany

Directions—(Q. 30-34) Apart of the sentence is **bold**. Below are given alternatives to the **bold** part at (A), (B) and (C) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (D).

- 30. Modern medicine promotes good health.
 - (A) Means
- (B) Preaches about
- (C) Praises
- (D) No improvement
- The editor gave me a time-line to finish the article.
 - (A) Guideline
- (B) Deadline
- (C) Decline
- (D) No improvement
- Despite having many other opportunities, he went for Police Service.
 - (A) Liked
- (B) Opted
- (C) Selected
- (D) No improvement
- Presently she is busy composing the music for her next play.
 - (A) At the present
- (B) In the present
- (C) At present
- (D) No improvement
- I love him because he is a good man by heart.
 - (A) At heart
- (B) Of heart
- (C) In heart
- (D) No improvement

Directions—(Q. 35–39) Out of the four alternatives choose the one which can be substituted for the given words/sentence.

- 35. A large burial ground-
 - (A) Cemetery
- (B) Mercenary
- (C) Emissary
- (D) Symmetry
- 36. A co-worker in an office or institution-
 - (A) Colleague
- (B) Companion
- (C) Ally
- (D) Accomplice
- One whose motive is merely to get money—
 - (A) Fastidious
- (B) Businesslike
- (C) Mercenary
- (D) Polyglot
- 38. A man who is quite like a woman-
 - (A) Womanly
- (B) Feminine
- (C) Feminist
- (D) Effeminate

- To supply land with water by artificial means—
 - (A) Postulate
- (B) Irrigate
- (C) Mitigate
- (D) Watergate

Directions—(Q. 40-45) 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 () in the Answer Sheet.

- 40. (A) Admision
- (B) Addimittion
- (C) Admission
- (D) Admition
- 41. (A) Certefecate
- (B) Cirtificate
- (C) Certificate
- (D) Cartifikate
- 42. (A) Occasionally
- (B) Occassionally
- (C) Ocassionally
- (D) Occasionaly
- (A) Acknowledge
 (C) Acknoledge
- (B) Acknowlege(D) Aknowledge
- 44. (A) Installasion
- (B) Installation
- (C) Instalation
- (D) Insttalation
- 45. (A) Successfull
- (B) Successful
- Youtub (C) Successful nel (D) Successful

Directions—(Q. 46–50) You have a passage with 5 questions. Read the passage carefully and choose the best answe to each question out of the four alternatives and mark it by blackening the appropriate oval (
) in the Answer Sheet.

PASSAGE

Developed in New Zealand in the 1990s, originally as a means of crossing water, zorbing involves rolling downhill in a large, PVC ball, and an activity which requires no more skill than that of a hamster running inside its wheel. The threemetre zorb has two skins, with the area between them inflated to provide effective cushioning and so prevent zorbonauts from hurting themselves as they hurtle along at speeds of up to 50 kilometre per hour. Zorbers are also harnessed inside the ball to stop them moving around. In 'Hydrozorbing' however, you have to do away with the straps and slide around in a bucket or two of water. This version can be enjoyed alone, or you can share the experience with up to two other people inside the same zorb. But don't be surprised if you get the odd bump or bruise!

- 46. Hydrozorbing is-
 - (A) Zorbing with a two-member team
 - (B) A form of zorbing in air
 - (C) A very violent form of zorbing
 - (D) A form of zorbing in or with water
- 47. Zerbing is-
 - (A) An indoor game
 - (B) A form of transport
 - (C) A form of sport
 - (D) A stunt act in a circus
- 48. Zorbing is fairly safe because-
 - (A) It does not demand any speed
 - (B) There is adequate cushioning in the zorbs
 - (C) It does not require much skill
 - (D) The PVC balls are airtight
- 49. The author implies that zorbing-
 - (A) Builds up team spirit
 - (B) Involves a lot of skills and a fair amount of risks
 - (C) Requires a hamster to run inside the wheels
 - (D) Was not at first intended as a land tub train in known nell based sport
- The people who actively take up zorbing are called—
 - (A) Zorbers
- (B) Zorboes
- (C) Zorbs
- (D) Zorbingers

Answers with Explanations

- 1. (B) Change 'is living' to 'has been living'
- 2. (B) Change 'hardly' to 'hard'
- 3. (B) Change 'are' to 'is'
- 4. (A) Change 'This' to 'These'
- 5. (D)
- 6. (C) Change 'with' to 'to'
- (B) Change 'more'. It is redun-dant
- 8. (A) Change 'crowding' to 'crow-ded'
- (A) Change rising to 'raising'
- (A) Change 'your coming' to 'you are coming'.
- 11. (C) 12. (A) 13. (C) 14. (D) 15. (D)
- 16. (D) 17. (B) 18. (B) 19. (A) 20. (C)
- 21. (A) 22. (D) 23. (C) 24. (C) 25. (D)

- 26. (C) 27. (A) 28. (D) 29. (C) 30. (D)
- 31. (B) 32. (B) 33. (C) 34. (D) 35. (A)
- 36. (A) 37. (C) 38. (D) 39. (B) 40. (C)
- 41. (C) 42. (A) 43. (A) 44. (B) 45. (B)
- 46. (D) 47. (C) 48. (C) 49. (C) 50. (A)

Part—III Quantative Aptitude

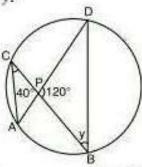
- Two men P and Q start a journey from some place at a speed of a km/hr and 3½ km/hr respectively. If they move in same direction then what is the distance between them after 4 hours?
 - (A) 3 km
- (B) $2\frac{1}{2}$ km
- (C) 2 km
- (D) $3\frac{1}{2}$ km
- 2. A 500 m long goods train crosses a platform in 36 seconds. If the length of the platform is 220 m, then what is the speed of the goods
 - (A) 60
- (B) 72
- (C) 80
- (D) 85
- The sum due in 219 days hence whose present worth at 5½ % of ₹ 400 is : ?
 - (A) ₹300
- (B) ₹312
- (C) ₹390
- (D) ₹413·20
- 4. Omdutt started a business with a capital of ₹ 8000. After six months, Sanjay joined him with investment of some capital. If at the end of the year each of them gets equal amount as profit, how much did Sanjay invest in the business?
 - (A) ₹18000
- (B) ₹17500
- (C) ₹16000
- (D) ₹ 16500
- 5. The height of a cone is 7 cm and diameter of its base is 14 cm. What is the volume of the cone?
 - (A) 411 · 6 cm3
- (B) 359·3 cm³
- (C) 442.6 cm3
- (D) 450·6 cm³
- 6. The inner diameter of a well is 8 m. If the well is 14 m deep, then what is the volume?

- (A) 459 m³
- (B) 981 m³
- (C) 778 m³
- (D) 704 m³
- 7. HCF of $x^2 y^2$ and $x^3 y^3$ is -
 - (A) x y
 - (B) $x^3 y^3$
 - (C) $(x^2 y^2)$
 - (D) (x + y), $(x^2 + xy + y^2)$
- 8. $(4x + 3y)^2 + (4x 3y)^2$ is equal to—
 - (A) $16x^2 9y^2$
- (B) $32x^2 + 18y^2$
- (C) $16x^2 + 9y^2$
- (D) $32x^2 + 9y^2$
- 9. If base diameter of a cylinder is increased by 50%, then by how much per cent its height must be decreased so as to keep its volume unaltered?
 - (A) 45.56%
- (B) 55.56%
- (C) 50·16%
- (D) 62·33%
- The surface area of a cube is 600 sq m. Its diagonal is—
 - (A) 10√3 cm
- (B) 5√3 cm
- (C) 4√3 cm
- D 10√2 cm Youtube
- 11. If $\sin \theta = -\frac{3}{5}$, and θ lies in the third quadrant,

then the value of $\cos (\theta/2)$ is -

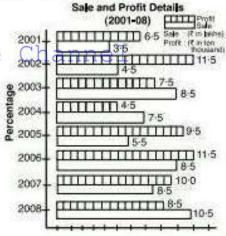
- (A) $\frac{1}{5}$
- (B) $\frac{-1}{\sqrt{(10)}}$
- (C) $\frac{-1}{5}$
- (D) $\frac{1}{\sqrt{(10)}}$
- 12. If $(\sec \alpha + \tan \alpha)$ $(\sec \beta + \tan \beta)$ $(\sec \gamma + \tan \gamma) = \tan \alpha \tan \beta \tan \gamma$, then $(\sec \alpha \tan \alpha)$ $(\sec \beta \tan \beta)$ $(\sec \gamma \tan \gamma) = ?$
 - (A) cot α cot β cot γ
 - (B) tan α tan β tan γ
 - (C) cot α + cot β + cot γ
 - (D) $\tan \alpha + \tan \beta + \tan \gamma$
- 13. $(16)^{-3/4} + 2^{-3} + (8)^{-2/3} +$ is equivalent to—
 - (A) $\frac{1}{2}$
- (B) 3
- (C) 9
- (D) 5
- 14. If two triangles are on the same base and between the parallel lines, then they will be—

- (A) equilaterals
- (B) right angled
- (C) equal in area
- (D) congruent
- In the fig. if ∠ACB = 40°, ∠DPB = 120°, then find y.



- (A) 10°
- (B) 20°
- (C) 15°
- (D) 25°

Directions—The bar graph as shown below gives information about the sale and profit details of a departmental, store during the years from 2001-08, Study the graph carefully and answer the questions asked here under.



- Mean of annual increase in sale from 2003 to 2008 (rupees in lakhs) is—
 - (A) 0·1
- (B) 0·2
- (C) 0·3
- (D) 0.4
- Annual mean profit of the store (rupees in ten thousands) is approximately—
 - (A) 8:5
- (B) 8.6
- (C) 8.7
- (D) 9.0
- 18. During which of the following years percentage of profit earned by the store on the total sale was at the highest level?
 - (A) 2001
- (B) 2002
- (C) 2003
- (D) 2005

- 19. Assuming the profit earned during the year 2001 as base (100), the profit made by the store during the year 2008 was-
 - (A) 76
- (B) 105
- (C) 121
- (D) 131
- 20. During which year between 2001 to 2006 profit made by the store as compared to the previous year was more than 100%?
 - (A) 2008
- (B) 2007
- (C) 2005
- (D) 2003

Directions-The pie chart, drawn, shows the spending of a country on various sports during a particular year. Study the graph carefully and answer the questions that follow.

21. Graph shows that the most popular game of the country is-



- (A) Football
- (B) Hockey
- (C) Cricket
- (D) Tennis
- 22. Out of the following the country spent the same amount on-
 - (A) Hockey and Cricket
 - (B) Hockey and Football
 - (C) Hockey and Golf
 - (D) Tennis and Golf
- 23. The ratio of the total amount spent on football to that spent on hockey is ?
 - (A) 2:1
- (B) 1:1
- (C) 1:2
- (D) 3:2
- 24. If the total amount spent on sports during the year was ₹1,20,00,000 how much was spent on basket-ball?
 - (A) ₹ 16,00,000
- (B) ₹18,00,000
- (C) ₹3,06,000
- (D) ₹15,00,000
- 25. If the total amount spent on sports during the year was ₹ 30,00,000 the amount spent on Cricket and Hockey together was-

- (A) ₹18,00,000
- (B) ₹ 12,00,000
- (C) ₹15,00,000
- (D) \$20,00,000
- 26. If 3 men or 4 women can construct a wall in 43 days, then in how many days 7 men and 5 women will construct it ?
 - (A) 12 days
- (B) 13 days
- (C) 16 days
- (D) 15 days
- 27. A man purchases an item at 4/5th of its selling price and sold it at 12% more than its selling price. His gain will be-
 - (A) 40%
- (B) 50%
- (C) 20%
- (D) 30%
- 28. An insect flies from the corner A to corner B of a cubic room in 4 second where A and B are diagonally opposite corners. The side of the room is 4 m. The speed of the insect is-
 - (A) √3 m/sec
- (B) 2√3 m/sec
- (C) √2 m/sec
- (D) 2√2 m/sec
- 29. A horse and a dog were sold for ₹ 12,000 each. The horse was sold at a loss of 20% and the dog at a gain of 20%. The entire Youtub transaction resulted in -
 - (A) Loss of ₹ 1000
- (B) Gain of ₹ 1000
- (C) Gain of ₹2000 (D) No loss or gain
- 30. A sum of money invested at compound interest amounts in 3 years to ₹ 800 and in 4 years to ₹840. What is the percentage rate of interest?
 - (A) 3%
- (B) 10%
- (C) 5%
- (D) 4%
- 31. Find the area of a triangle whose base is 25 cm long and corresponding height is 10.8 cm-
 - (A) 135 cm²
- (B) 531 cm²
- (C) 153 cm²
- (D) None of these
- 32. The base of an isosceles triangle measures 24 cm and its area is 192 cm2. Find its perimeter-
 - (A) 20 cm
- (B) 24 cm
- (C) 16 cm
- (D) 64 cm
- 33. A watch was sold at a profit of 15%. If its cost had been 5% less and it had been sold for ₹ 21 less, then the profit would have been 10%. Find the cost price of the watch-

(A) ₹400

(B) ₹190

(C) ₹200

(D) None of these

34. Rajeev purchased 100 pieces of an article @ ₹ 480 per piece. He then listed the price so as to gain a profit of 25%. While selling the articles he offered a discount of 5%. What is the percentage of profit earned in the deal?

(A) 18·75

(B) 19·50

(C) 15·00

(D) 20·00

- 35. Priya deposited two parts of a sum of ₹25,000 in different banks at the rates of 15% per annum and 18% per annum respectively. In one year she got ₹4,050 as the total interest. What was the amount deposited at the rate of 15% per annum?
 - (A) 12,000

(B) 15,000

(C) 16,000

(D) 10,000

- 36. The average age of 33 boys and the class teacher in a class is 14 years. If the class teacher's age is 47 years. What would the average age of only the boys?
 - (A) 12 years

(B) 14 years

(C) 15 years

(D) divers Youtu

37. The value of

is-

(A) 1.5

(B) I:00

(C) 0.87

(D) None of these

- The greatest number that will divide 187, 233 and 279 leaving the same remainder in each case is—
 - (A) 49

(B) 54

(C) 46

(D) 36

- If the difference between simple and compound interest on some principal amount at 20% per annum for three years is ₹ 48, then the principal amount is—
 - (A) ₹475

(B) ₹375

(C) ₹550

(D) None of these

 The speed of a car is 60 km/hr. The time taken to cover a distance of 300 km in hours is(A) 6

(B) 8

(C) 4

(D) 5

41. The distance between two cities A and B is 520 km. One car starts from city A towards city B with the speed of 60 km/hr. At the same time, another car starts form city B towards city A with a speed of 70 km/hr. After how many hours they will cross each other?

(A) 5 hours

(B) 6 hours

(C) 3 hours

(D) 4 hours

 If the selling price is doubled, the profit triples. Find the profit per cent—

(A) 50%

(B) 200%

(C) 300%

(D) None of these

43. The lengths of the sides of an isosceles triangle are in the ratio 3:3:5. The lengths of the equal sides of the triangle is 6.6 cm. What is the perimeter of the triangle?

(A) 23.5 cm

(B) 24·0 cm

(C) 24·2 cm

(D) 25·0 cm

44. P sells a table to Q at a profit of 10% and Q sells it to R at a profit of 12%. If R pays ₹ 246-40 for it, then how much had P paid for it?

(A) 300

(B) 248

(C) 346

(D) 200

 If 0.06% of a number is 84, then 30% of that number is—

(A) 42,000

(B) 2,520

(C) 25·2

(D) 420

46. The volume of a cylindrical tank is 12320 litre and its radius and height are in the ratio of 7: 10 respectively. What is the height of the tank?

(A) 2.8 metre

(B) 2 metre

(C) 1.4 metre

(D) None of these

47. The value of

$$1 + [1 + 1 + \{1 + 1 + (1 + 1 + 2)\}]$$

is-

 $(A) \frac{2}{8}$

(B) 8

(C) I

(D) None of these

- 48. In a cricket game Dhoni is out for 52 runs which raises his average from 36 to 37. How many runs would he have to score in that innings (in which he scored 52) to raise his average to 39?
 - (A) 72
- (B) 84
- (C) 100
- (D) 82
- 49. How many kilogram of sugar costing ₹ 9 per kg must be mixed with 27 kg of sugar costing ₹ 7 per kg so that there may be a gain of 10% by selling the mixture at ₹9.24 per kg?
 - (A) 55 kg
- (B) 68 kg
- (C) 63 kg
- (D) None of these
- 50. Anil can do a work in 10 days and Babu in 8 days. Anil and Babu can do the work on alternate days. If Anil begins the work, then the work can be finished in how many days?
 - (A) 9 days
- (B) 12 days
- (C) 7 days
- (D) 8 days

Answers with Explanations

1. (C) Distance after 1 hr Join Youtube Chammet m

$$= \left(3\frac{1}{2} - 3\right)$$
$$= \frac{1}{2}$$

After 4 hr =
$$4 \times \frac{1}{2} = 2 \text{ km}$$

2. (B) Total distance covered = length of platform + length of train = 500 + 220 = 720 m

Speed =
$$\frac{\text{distance}}{\text{time}} = \frac{720}{36}$$

= 20 m/s
= $\frac{20 \times 18}{5} = 72 \text{ km/hr}$

3. (D)
$$P = \sqrt[7]{400}, R = 5\frac{1}{2} = \frac{11}{2}\%$$

$$T = \frac{219}{365} \text{ yrs.}$$

$$S.I. = \frac{PRT}{100}$$

$$= \frac{400 \times 11}{100 \times 2} \times \frac{219}{365}$$

 $=\frac{66}{5}=13.20$

Due amount = 400 + 13.20 = 413.20

(C) Let Sanjay invested ₹ x.

Note - For equal profit sharing

Amount x time must be equal.

$$8000 \times 12 = x \times 6$$

$$x = 8000 \times \frac{12}{6}$$

= ₹16,000

5. (B) $h = 7 \text{ cm}, r = \frac{14}{2} = 7 \text{ cm}$

$$V = \frac{1}{3}\pi r^{2}.h$$

$$= \frac{1}{3} \times \frac{22}{7} \times 7^{2} \times 7$$

$$= \frac{22 \times 49}{3} = \frac{1078}{3}$$

$$= 359.3 \text{ cm}^{3}$$

6. (D) Note: A well has cylindrical shape.

$$h = 14 \text{ m}$$
Volume = $\pi r^2 Jh$

$$= \frac{22}{7} \times 4^2 \times 14$$

$$= 22 \times 32$$

$$= 704 \text{ m}^3$$

7. (A) $x^2 - y^2 = (x + y)(x - y)$

$$x^3 - y^3 = (x - y)(x^2 + xy + y^2)$$

$$HCF = (x - y)$$

8. (B) $(a+b)^2 + (a-b)^2 = 2(a^2 + b^2)$

$$(4x + 3y)^{2} + (4x - 3y)^{2}$$

$$= 2\{(4x)^{2} + (3y)^{2}\}$$

$$= 2\{16x^{2} + 9y^{2}\}$$

9. (B) When – radius = r, height = h, $V = \pi r^2 h$ Diameter increased by 50%

 $= 32x^2 + 18x^2$

New radius =
$$\frac{150}{100} r = \frac{3}{2} r$$

New height = H (let)

New volume = Previous volume

$$\pi \left(\frac{3}{2}r\right)^2 \cdot H = \pi r^2 \cdot h$$

$$\frac{9}{4}r^2 \cdot H = \pi r^2 \cdot h$$

$$H = \frac{4}{9}h$$

% decrease in height

$$= \frac{\left(h - \frac{4}{9}h\right)}{h} \times 100$$

$$= \frac{5h}{9h} \times 100$$

$$= 55.56\%$$

$$= 600$$

10. (A) S.A. = 600

$$\Rightarrow$$
 6a² = 600
a = 10 cm

Diagonal = a ♥3 = 103 cm

11. (D)
$$\sin \theta = -\frac{3}{5}$$

 $\sin^2 \theta + \cos^2 \theta = 1$

$$\frac{1}{(\sec \alpha + \tan \alpha)} \cdot \frac{1}{(\sec \beta + \tan \beta)}$$

$$= \frac{1}{\tan \alpha \cdot \tan \beta \cdot \tan \gamma}$$

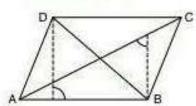
$$= \cot \alpha \cdot \cot \beta \cdot \cot \gamma$$
13. (A) $16^{-3/4} + 2^{-3} + 8^{-2/3}$
 $(2^4)^{-3/4} + 2^{-3} + (2^3)^{-2/3}$

$$= 2^{-3} + 2^{-3} + 2^{-2}$$

$$= \frac{1}{2^3} + \frac{1}{2^3} + \frac{1}{2^2}$$

$$= \frac{1}{8} + \frac{1}{8} + \frac{1}{4} = \frac{4}{8} = \frac{1}{2}$$

14. (C)



Equal in area.

$$(\because \cos 2\theta = 2 \cos^2 \theta - 1)$$

$$2 \cos^2 \frac{\theta}{2} = \frac{-4}{5} + 1 = \frac{1}{5}$$

$$\cos^2 \frac{\theta}{2} = \frac{1}{10}$$

$$\cos\theta = \frac{1}{\sqrt{10}}$$

12. (A) From $\sec^2 \theta - \tan^2 \theta = 1$ $(\sec \theta + \tan \theta) (\sec \theta - \tan \theta) = 1$ $\Rightarrow (\sec \theta - \tan \theta) = \frac{1}{\sec \theta + \tan \theta}$

 $(\sec \alpha - \tan \alpha) (\sec \beta - \tan \beta) (\sec \gamma - \tan \gamma)$

= 10.5 - 8.5 = 2.0Mean = $\frac{2.0}{5}$ = 0.4

17. (C) Annual Mean Profit = Total Profit No. of years 6.5 + 11.5 + 7.5 + 4.5 + 9.5 $=\frac{+11.5 + 10.0 + 8.5}{8}$ $=\frac{69.5}{9}=8.7$

18. (B) 2001:

$$\frac{6.5 \times 10,000}{3.5 \times 1,00,000} \times 100 = \frac{650}{35}$$
$$= 18.55\%$$

2002: $\frac{11.5 \times 10,000}{4.5 \times 1,00,000} \times 100 = \frac{230}{9}$ = 25.55%

$$\frac{7.5 \times 10,000}{8.5 \times 1,00,000} \times 100 = \frac{150}{17}$$
$$= 8.8\%$$

2005:

$$\frac{9.5 \times 10,000}{5.5 \times 1,00,000} \times 100 = \frac{190}{11}$$
$$= 17.29$$

19. (D)
$$\frac{100}{6.5} \times 8.5 = \frac{1700}{13} = 131$$

20. (C) We can observe that-

2008:
$$\frac{8.5}{10.5} = \frac{17}{21}$$

$$2007: \frac{10.5}{8.5} = \frac{20}{17}$$

$$2006: \frac{11.5}{8.5} = \frac{23}{17}$$

2005:
$$\frac{9.5}{5.5} = \frac{19}{11}$$

$$\frac{4.5}{7.5} = \frac{9}{15} = \frac{3}{5}$$

$$\begin{array}{ccc}
(2005): & \frac{19}{11} & \frac{3}{5}(2004) \\
\frac{95}{55} > \frac{33}{55}
\end{array}$$

Hence, we can say that profit made in 2005 is more that 100% as compared to 2004.

21. (C) Money spent on cricket

22. (B) Hockey = Football = 15%

23. (B)
$$\frac{15\%}{15\%} = 1:1$$

$$12.5\% = \frac{1,20,00,000}{100} \times 12.5$$

$$(20 + 15\%) = 40\%$$

$$40\% = \frac{30,00,000}{100} \times 40$$
$$= 12,00,000$$

26. (A)
$$3 \text{ men} = 4 \text{ women}$$

$$1 \text{ man} = \frac{4}{3} \text{ women}$$

7 men =
$$\frac{4}{3} \times 7$$
 women

$$=\frac{28}{3}$$
 women

7 men + 5 women

$$=\frac{28}{3} + \frac{15}{3}$$

$$=\frac{43}{3}$$
 women

4 women construct the wall in

I woman constructs the wall in

$$= 43 \times 4 \text{ days}$$

$\frac{43}{3}$ women construct the wall in

$$= 43 \times 4 + \frac{43}{3}$$

$$= 43 \times 4 \times \frac{3}{43}$$

$$= 12 \text{ days}$$

27. (A) Let S. P. be ₹ 100.

According to question-

$$\frac{19}{11}$$
 $\frac{3}{5}$ (2004) C.P. = $\frac{4}{5} \times 100 = ₹80$
 $\frac{95}{55} > \frac{33}{55}$ Youtub New Channel of S.P.

$$= 112 \times \frac{100}{100} = 112$$

Gain % =
$$\frac{32}{80} \times 100$$

= 40%

28. (A)

Side of the cubical room = 4 m

$$= 4\sqrt{3} \,\mathrm{m}$$

$$=\frac{4\sqrt{3}}{4}$$

$$= \sqrt{3} \text{ m/s}$$

29. (A)

Horse's C. P. =
$$\frac{12000}{80}$$
 × 100
= ₹15000

120% of dog's C. P. = ₹ 12000

Dog's C. P. =
$$\frac{12000}{120} \times 100$$

= ₹ 10000

Total C. P. = 15000 + 10000

= ₹ 25000

Total S. P. = 12000 + 12000

= ₹ 24000

34. (A)C. P. of 1 piece = ₹ 480

∴ S. P. < C. P.

∴ Loss = 25000 - 24000

= ₹ 1000

30. (C) For 1 year S. I. = C. I.

= 840 - 800

= ₹ 40

Rate % = $\frac{40}{800} \times 100$

= 5%

Total C. Area = $\frac{1}{2}$ base × Height

= $\frac{1}{2} \times 25 \times 10^{-8}$.

Height = $\frac{Area \times 2}{24}$

= 112 × 2

Area = 124 × 162

= 112 × 2

40 × 20 × 100

Area = 112 × 2

40 × 00 × 100

Area = 112 × 2

Area = 40 × 24

= 64 cm

Area = 20 cm

Perimeter = $\frac{112 \times 2}{24}$

= 40 × 24

= 40 + 24

= 40 + 24

= 40 + 24

= 40 + 24

= 64 cm

33. (C) LetC. P. = ₹ 100 x

Then S. P. = 115 x

When C. P. = (100 - 5)x

= 95 x

and S. P. = 115x - 21

Then Gain = 10% of 95 x

= 95 x

10.5 x = 21

x = $\frac{21}{10.5}$

x = $\frac{21}{10.0}$

x = $\frac{21}{1$

Again,
$$37 = \frac{\sum X + 52}{N+1}$$

 $\Rightarrow 37 (N+1) = 36N + 52$
 $\Rightarrow 37N + 37 = 36N + 52$
 $\Rightarrow N = 52 - 37$
 $\therefore N = 15$

Again as per question let the required number of runs is y. Then

$$39 = \frac{\sum X + y}{15 + 1}$$

$$39 \times 16 = 36 \times 15 + y$$

$$624 = 540 + y$$

$$y = 624 - 540$$

$$= 84$$

$$49. (C) 110\% = 9.24$$

$$100\% = \frac{9.24}{110} \times 100$$

$$= ₹ 8.40$$

Let x kg sugar @ ₹9 kg mixed, then

$$\frac{9 \times x + 7 \times 27}{27 + x} = 8.40$$

$$27 \times 8.40 + 8.4x = 9x + 7 \times 27$$

$$0.6x = 27 \times 8.4 - 27 \times 7$$

$$x = \frac{27 (8.4 - 7)}{0.6}$$

$$= \frac{27 \times 1.47}{0.6}$$

$$= 63 \text{ kg}$$
(C)

50. (A) In 1 day Anil does =
$$\frac{1}{10}$$

and Babu does = $\frac{1}{8}$

When starting with Anil they do in 2 days

$$= \frac{1}{10} + \frac{1}{8} = \frac{9}{40}$$

Work done by both in 8 days

$$= \frac{9}{40} \times \frac{8}{2}$$
$$= \frac{9}{10}$$

Remaining $\frac{1}{10}$ is done by Anil on 9th day.

Total number of days
$$= 8 + 1$$

= 9 days

Part—IV General Awareness

- Firms under perfectly competitive markets generally are—
 - (A) Price makers
- (B) Price givers
- (C) Price takers
- (D) Price fixers
- 2. Select the odd one in the following-
 - (A) Petroleum
- (B) Coal
- (C) Fuel wood
- (D) Electricity
- National Income is—
 - (A) Net National Product Indirect Taxes + Subsidies
 - (B) Gross National Product Direct Taxes
 - (C) Gross Domestic Product Imports
 - (D) Net Domestic Product + Exports
- 4. Which statement is true?
 - (A) Money is a good servant
 - (B) Money is a good servant but a bad master
 - (C) Money is a good master but a bad
 - (D) Money is a good master and a good servant
- India has adopted as its economic system to bring about a socialistic pattern of society.
 - (A) Socialism
 - (B) Mixed Economy
 - (C) Capitalism
 - (D) Political Economy
- Local governments are the basis of—
 - (A) Aristocracy
- (B) Secularism
- (C) Democracy
- (D) Reservation
- The final interpreter of the Indian Constitution is—
 - (A) Central Cabinet
- (B) President
- (C) High Court
- (D) Supreme Court
- One of the following laws favours women's interests—
 - (A) Equal Remuneration Act
 - (B) Protection of Civil Rights Act
 - (C) Immoral Traffic (Prevention) Act
 - (D) None of the above

17. Days and nights are caused because of-9. One of the following was once an associate State of the Union of India and later became a (A) shape of Earth's orbit full fledged State-(B) revolution movement (A) Jharkhand (C) rotational movement (B) Chhattisgarh (D) None of the above (C) Arunachal Pradesh 18. Chennai gets less rain than other places from (D) Sikkim the South-West monsoons because-10. President of India can be impeached by-(A) The monsoon runs parallel to Coromandel coast (A) Specially constituted Tribunal (B) Chennai is too hot to allow moisture to (B) Supreme Court condense (C) Central Cabinet (C) They are off-shore winds (D) Parliament (D) All the above 11. Who among the following was the leader of 19. The climate of India is-Cabinet Mission ? (A) Equatorial (B) Monsoonal (A) Stafford Cripps (D) Continental (C) Mediterranean (B) Linlithgow Laterite soils are found in— (C) A.V. Alexander (A) heavy rainfall region (D) Sir Pethick Lawrence (B) desert region 12. In which one of the following battles did (C) tropical region Nadir Shah defeat the Mughal Emperor (D) tropical region with wet and dry climate Mohammad Shah? Join 21. Photosynthesis takes place in— (A) Delhi (B) Karnal (A) Roots of the plants (C) Panipat (D) Kanpur (B) Green parts of the plants 13. Mahabashya was written by-(C) Stems of the plants (A) Gargi (B) Manu (D) All parts of the plant (C) Bana (D) Patanjali 22. Universal Blood Donor is-14. The song 'Jana-Gana-Mana' composed by (A) A group (B) B group Rabindra Nath Tagore was first published in (D) O group (C) AB group January 1912 under the title of- Alcoholic fermentation is brought by— (A) Rashtra Jagrati (B) Amoeba (A) Mushrooms (B) Tatva Bodhini (D) Yeast (C) Virus (C) Bharat Vidhata (D) None of the above 24. Birds and bats are good fliers. The bat differs from bird in having -Sher Shah died while fighting in— (A) Four chambered heart (A) Chausa (B) Kalinga (B) Diaphragm (C) Kalinjar (D) None of these (C) Wings Biosphere reserves are meant to— (D) Small brain (A) Preserve wild land flora and fauna 25. 'Tube within a tube' type of body plan is (B) Experiment and develop forest products found in-(C) Experiment and develop agriculture products (A) Sea anemone (B) Leech

(C) Amoeba

(D) Sycon

(D) All the above

	other plant is called			synthesis is the	-			
	(A) Stock	(B) Scion		(A) digestion of	f starch			
	(C) Stalk	(D) Sucker		(B) melting of	iron			
27.	White light is a colours?	mixture of how many		(C) ripening of				
	(A) 4	(B) 5		(D) burning of	wood			
	(C) 6	(D) 7	37.	Ozone hole wa	s discovered over Antarctica			
28.	Surface tension arise	es due to—		in-				
333	(A) adhesive force			(A) 1975	(B) 1985			
	(B) cohesive force			(C) 1978	(D) 1987			
	(C) gravitational fo	rce between molecules	38	Yusho diseas				
	(D) electrical force	between molecules	-10.	related with pol	THE RESIDENCE OF THE PARTY OF T			
29.	A particle covers e	equal distance around a		(A) PCB	(B) Cadmium			
	circular path in equ	equal interval of time. It has		(C) Acid Rain	(D) PAN			
	uniform—	1000/02/ 15	20	And and a resource	Marke was York as a new years a rest in the con-			
	(A) Velocity	(B) Speed	39.		f Biomass is inverted in which			
	(C) Acceleration	(D) Momentum		ecosystem ?	(B) Facet			
30.		ing will always produce a		(A) Pond	(B) Forest			
		f an object placed before		(C) Grassland	(D) Mangrove			
	it ?	(B) Convey existence	40.	Central Pollution Control Board comes under				
	(A) Plane mirror (C) Convex lens	(B) Convex mirror (D) Concave mirror	uk	the Ministry of nel				
	- WOODE, STOCKED - SERVICES - 15-15	THE OPENSION OF STREET		(A) Health and	Family Welfare			
31.	The term PC means			(B) Oil and Pe	troleum			
	(A) Private Comput		(C) Social Welfare					
	(B) Personal Calcul		(D) Environment and Forests					
	(C) Personal Computer (D) Professional Computer			 Hyderabad is famous for a museum. Name the museum— 				
52.	A translator for program into machin	the high-level language ne code is—	(A) Prince Wales Museum (B) Salarjung Museum					
	(A) Assembler	(B) Compiler						
	(C) Loader	(D) Linker		(C) National N	luseum			
33.	Atomic nuclei are o	and the same of th	(D) Victoria Museum					
SPRE	(A) Protons and ele		42.	Which city is k	nown as Electronic City?			
	(B) Protons and iso			(A) Gurgaon				
	(C) Electrons and n	eutrons		(B) Bengaluru				
	(D) Protons and ner	utrons		(C) Jaipur				
34. Which allotrope of carbon is used both as a				(D) Salem				
	lubricant and as lead			A Service and a service of the servi	and the second second			
	(A) Diamond	(B) Coal	45.		esident of India is remained-			
	(C) Charcoal	(D) Graphite		(A) Mrs. Najm	57.00.000.000			
35.	 Example of aerosol is— 			(B) Mrs. Sheila Dikshit				
- CONTROL	(A) Milk (B) River water				ndhara Raje Scindia			
	(C) Smoke	(D) Blood		(D) Mrs. Pratib	oha Patil			

26. The portion of a plant that is grafted on to the 36. A process that is almost the reverse of photo-

(B) Lord Jagan Nath 44. To which country doee India export the maximum gems and ornaments in value terms? (C) Sri Chaitanya Prabhu (A) U.S.A. (B) Britain (D) Sri Satva Sai Baba (C) Russia (D) Japan Answers with Explanations 45. The famous Dilwara Temple are situated in-(A) Rajasthan (B) Uttar Pradesh 1. (C) 2. (D) 3.(A) 4. (B) 5. (B) (C) Madhya Pradesh (D) Maharashtra 7. (D) 8. (C) 6. (C) 9. (C) In the year 1972 (20 February, 1972) 46. The President of India has awarded Rajiv Arunachal Pradesh was an associate state of Gandhi Khel Ratna Award tothe union of India and later on, it became as a (A) Vijay Kumar (Shooter) separate state on 27 February, 1987. (B) M.S. Dhoni (Cricketer) 10. (D) 11. (A) 12. (B) 13. (D) 14.(C) (C) Both (A) and (B) 15. (C) 16. (D) 17. (C) 18. (B) 19.(B) (D) None of the above 21. (B) 20. (D) 47. India has won the Under-19 Cricket World 22. (D) Universal Blood Donor group is O+ group Cup, 2012 after defeating in the final. (40%), while 8% B+, 3% AB+ and 34% A+-(A) Australia (B) England people have it. (C) South Africa (D) Pakistan 26. (B) 23. (D) 24. (C) 25. (B) 27. (D) 48. Bharatpur Sanctuary (Kebala Dev Pachhi 28. (B) 29. (B) 30. (B) 31.(C) 32. (A) Vihar) is located in the State of-33. (D) 34. (D) 35. (C) 36. (D) 37. (B) (A) Odisha (B) Tamil Nadu outube CAAn 19 (D) 41.(B) 42. (B) (D) Rajasthan (C) Karnataka 43. (D) The first woman President of India was remained Smt. Pratibha Devi Singh Patil The 2014 Shooting World Championship will (born in 1934 and remained as President be held inw.e.f. 25 July, 2007 to 25 July, 2012 i.e., for 5 (A) Granada in Spain years duration). (B) New Delhi in India 44. (A) (C) Toronto in Canada 45. (A) The famous Dilwara Temple is situated/ (D) Melbourne in Australia located in Rajasthan on Mount Aboo hill-A 50. Rathyatra at Puri is celebrated in honour of-Hindu Religious Temple. (A) Lord Rama 47. (A) 48. (D) 49. (A) 46. (C) 50. (B)