# STAFF SELECTION COMMISSION

## **COMBINED GRADUATE LEVEL**

### **TIER - I PREVIOUS PAPER - 2016**

		GENERAL	INTELLIGENCE	0.
1.	Select the related wo	ord from the given alter	rnatives.	(O-
	Bird : Aeroplane : :	Fish:?	. 10	
	1) Fisherman	2) Sofa	3) Boat	4) Glasses
2.	Select the related let	ters from the given alte	ernatives.	
	DCBA: WXYZ:	: IJKL : ?	10°	
	1) SRQP	2) QPON	3) RQPO	4) PONM
3.	Select the related nu	mber from the given al	ternatives : 381 : 160 :	: 478 : ?
	1) 347	2) 357	3) 247	4) 257
4.	Find the odd word f	rom the given alternativ	ves.	
	1) Affluent	2) Rich	3) Prestigious	4) Well - to - do
5.	Find the odd letters	from the given alternat	ives.	
	1) OMQ	2) TPR	3) TRV	4) VTX
6.	Find the odd word n	number - pair from the g	given alternatives.	20
	1) 8 – 11	2) 1 – 4	3) 7 – 10	4) 3 – 5
7.	Arrange the following	ng words as per order in	n the dictionary.	0
	1) Launch	2) Laugh 3)	Lattice 4) Latent	5) Latitude
	1) 4, 5, 3, 2, 1	2) 4, 3, 5, 1, 2	3) 4, 5, 1, 2, 3,	4) 4, 5, 1, 3, 2
8.	-	ith one term missing. C	Choose the correct alternative	from the given ones that will
	complete the series.		~~~	
	XFB, UGD, RIG, O		) »	0.0774
	1) OLJ	2) LNK	3) LPP	4) OLM
9.	A series is given, we complete the series.	ith one term missing. C	Choose the correct alternative	from the given ones that will
	1, 2, 4, 7, 2, 16			
	1) 14	2) 8	3) 11	4) 15
10.	A & B are married of	couple. X and Y are bro	thers. X is the brother of A.	How is Y related to B?
	1) Brother – in – lav	W	2) Brother	
1	3) Son – in – law		4) Cousin	
11.	A is shorter than B taller than A. The sh		shorter than A but taller than	C and E is shorter than B but

3) A

4) D

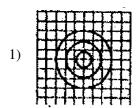
2) C

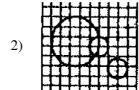
1) B

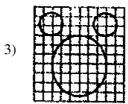
**12.** From the given word, select the word which can not be formed using the letters of the given word. **DISSERTATION Option:** 1) SISTER 2) STATION 3) DIRECTION 4) RATION If A = 1, E = 5, then HEAR = ?13. 1) 38 3) 31 If P denotes +, Q denotes -, R denotes '÷', and S denotes X, then: 18S36R12Q6P7 = 14. 2) 65 3) 55 1) 115 Some equations have been solved on the basis of certain system. Find the correct answer for the **15.** unsolved equation on that basis. If 98 - 39 - 27 = 31, 87 - 38 - 34 = 20, then 79 - 25 - 12 = ?2) 22 1) 51 3) 42 Select the missing number from the given responses: **16.** 14 7 4 12 24 6 1) 14 3) 21 4) 22 Rahul walks 30 metres towards south. Then turns to his right and starts walking straight till he **17.** completes another 30 metres. Then again turning to his left he walks for 20 metres. He then turns to his left and walks for 30 metres. How far is he from his initial position? 1) 50 metres 2) 30 metres 4) 60 metres 3) 10 metres Some statements are given followed by four conclusions numbered I, II, III & IV. You have to 18. 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, follow from the given statements. **Statements:** 1. All teachers are actors. 2. Some actors are women. **Conclusions: I.** All teachers are women. II. Some women are teachers. III. Some women are actors. IV. All actors are teachers. 1) Only conclusion I follows 2) Only conclusion II & IV follows 3) Only conclusion III follows 4) None of the conclusion follows. 19. How many triangles are there in the following figure PQRS? 1) 12 2) 20 3) 24 4) 28

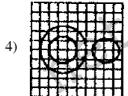
20. Identify the diagram that best represents the relationship among classes given below.

Stationery items, Pencils, Potatoes



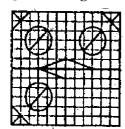




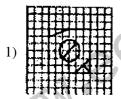


21. Which answer figure will complete the pattern in the question figure?

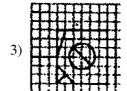
#### **Question Figure:**

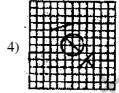


**Answer Figure:** 



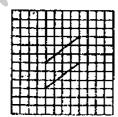




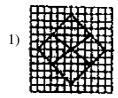


22. From the given answer figures, select the one in which the question figure is hidden/ embedded.

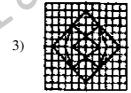
### **Question Figure:**

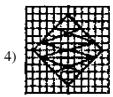


**Answer Figure:** 



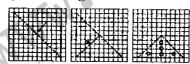




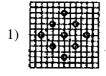


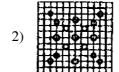
**23.** A piece of paper if folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

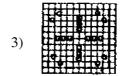
#### **Question Figure:**

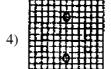


**Answer Figure:** 





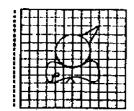




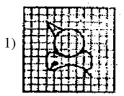
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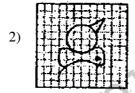
**24.** If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

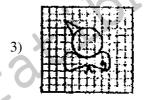
#### **Question Figure:**

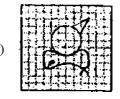


#### **Answer Figure:**









25. In this question, 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 alphabet as in two matrices given below. 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 the row and next by its column, e.g., A can be represented by 02, 14, etc., and 'O' can be represented by 55, 67, etc., Similarly you have to identify the set for the word 'LEMD'.

Matrix-I

	0	1	2	3	4
0	Е	S	A	L	M
1	L	M	Е	S	A
2	S	A	L	M	Е
3	M	Е	S	A	L
4	A	L	M	Е	S

	5	6	7	8	9
5	О	D	U	N	F
6	N	F	О	D	U
7	D	U	N	F	О
8	F	О	D	U	N
9	U	N	F	О	D

1) 34, 43, 40, 56

2) 10, 31, 77, 99

3) 41, 12, 41, 59

4) 22, 14, 65, 75

### **GENERAL AWARENESS**

- **26.** Intensive cultivation refers to
  - 1) production with intensive use of labour
  - 2) production with intensive use of fertilizer
  - 3) raising production by intensive use of existing land
  - 4) raising production by large scale use of imported inputs
- **27.** Upon winning Wimbledon Women's Tennis Tournament 2016, Serena Williams equalled record 22 Grand Slam wins of

1) Martina Navratilova

2) Steffi Graf

3) Martina Hingis

4) Maria Sharapova

				-		
28.	A universal recipient has the blood group					
	1) B	2) AB	3) A	4) O		
29.	Amir Khusrow was a					
	1) Poet	2) Play writer	3) Painter	4) Architect		
30.	The members of All Indi	a Services serve the		20		
	1) Central Government o	only	2) State Government on	ly		
	3) Union Territories only		4) Both the Union and S	State Government		
31.	The term of office of the	Vice - President of India	ı is			
	1) 4 years	2) 5 years	3) 2 years	4) 6 years		
32.	Who was responsible for	r the integration of prince	ely states into the Indian U	Union after Independence?		
	1) Sri Rajagopalachari	_ <	2) Pt. Jawaharlal Nehru			
	3) Sardhar Vallabh Bhai	Patel	4) Maulama Abul Klam	Azad		
33.	Why does the west coast	of Indian receive more ra	ainfall from southwest mo	onsoon than the east coast?		
	1) Unlike the east coast t	his coast is straight				
	2) The Western Ghats ob	struct the winds causing	rainfall			
	3) The east coast is broad	ler than the west coast				
	4) The Eastern Ghats ext	-		×		
34.	ALV.	West and East flowing d				
<	1) Malwa	2) Chota Nagpur	3) Ranchi	4) Hazaribagh		
35.	-		atmospheric nitrogen are			
2.5	1) Peas	2) Wheat	3) Corn	4) Oats		
36.	-		ive very little sunshine sur			
25	1) Rickets	2) Dermatitis	3) Scurvy	4) Kwashiorkor		
37.	In water treatment plant,		es-			
	<ol> <li>Taste and, odour contr</li> <li>Weed control in reserv</li> </ol>					
	3) Disinfection	Olls				
	4) Removal of permanen	t hardness				
38.	Super cooling stands for					
	1) At freezing point	8	2) Below freezing point			
	3) At melting point		4) Above melting point			
39.	Alcohol is more volatile	than water becauseis	lower than water			
	1) its a boiling point		2) its a density			
	3) its a viscocity		4) its surface tension			
40.	Which of the following	is used to protect obje	ects in computer system,	in the absence of more		
	complete protection sche	mes?				
	1) Digital certificate	2) Digital signature	3) Passwords	4) Tokens		

41.	Which one is not included in Non - Banking Financial Institutions (NBFIs) ?				
	1) EXIM	2) SIDBI	3) NABARD	4) BOI	
42.	Which method will be en	ess of water?			
	1) Boiling		2) Distillation		
	3) Formation of lather wi	th soap	4) None of these	20	
43.	Who is the first Indian G	old Medal Winner in indi	vidual category in Olymp	ic games?	
	1) Abhinav Bindra	2) Sushil Kumar	3) R.V.S. Rathore	4) Leander Paes	
44.	Which is the warmest lay	ver of the atmosphere?	10/1		
	1) Thermosphere		2) Troposphere		
	3) Stratosphere		4) Mesosphere		
45.	A universal donor has the	e blood group	0-		
	1) B	2) AB	3) A	4) O	
46.	The Siachen Glacier's me	elting water are the main	source of which of the following	lowing rivers	
	1) Beas	2) Sutlej	3) Shyok	4) Nubra	
47.	Thomas Cup is associated	d with which of the follow	wing sports?		
	1) Cricket	2) Football	3) Basketball	4) Badminton	
48.	The famous work 'Anand	lmath' was written by			
	1) Sri Aurobindo		2) Sri Bankim Chandra Chatterjee		
	3) Sri Rabindranath Tago	re	4) Sri Arti Choudhary	20	
49.	Who introduced the term	•		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	1) Amartya sen	2) Raj Krishna	3) V.K.R.V. Rao	4) Kaushik Basu	
50.	The BRICS New Development Bank (NDB) has been set up for				
	1) Funding infrastructure project in emerging economics for sustainable development				
			g economics for sustainabl	e development	
	3) Funding infrastructura				
	4) Funding infrastructura	l projects in BRICS coun	tries only		
		QUANTITATIVI	APTITUDE		
51.	A can do a piece of work	in 9 days while B can do	it in 12 days. A and B to	gether can do the work in	
	1) $5 - days$	$\frac{2}{2}$ days	3) $6\frac{1}{7}$ days	4) $6 \frac{2}{}$ days	
	7 7	7	7	7 7	
<b>52.</b>			orice of an article. The retain	ailer sells it at the printed	
	price. His gain percent is		2		
<	1) 40%	2) 55%	3) $66\frac{2}{3}$	4) 75%	
53.	Δ mixture contains snirit	and water in the ratio of	3	res more spirit than water,	
	the quantity of spirit in th		5. 2. If it contains 5 Litt	es more spirit man water,	
	1) 12 litres	2) 10 litres	3) 9 litres	4) 8 litres	

54.	If the cost price of 25 p	ens is equal to the selling	g price of 20 pens, then the	profit percent is
	1) 20%	2) 25%	3) 15%	4) 5%
55.	A number is decreased	by 10% and resulting n	umber is again decreased	by 20%. What is the final
	percentage of decrease?	?		
	1) 25%	2) 26%	3) 27%	4) 28%
<b>56.</b>	The distance between t	two places A and B is 60	km. Two cars start at the	same time from A and B,
			respectively. If the cars run	in the same direction, then
	they will meet after (in			
	1) 6.5	2) 6.2	3) 6	4) 6.52
<b>57.</b>	The sum of money that	will yield Rs. 60 as simp	ble interest at the rate of 69	be per annum in 5 years is
	1) 200	2) 225	3) 175	4) 300
<b>58.</b>	If x, y and z are real nu	mbers such that $(x-3)^2$	$+ (y - 4)^2 + (z - 5)^2 = 0$ th	en $(x + y + z)$ is equal to
	1) –12	2) 0	3) 8	4) 12
59.	If $2x + \frac{1}{3x} = 5$ , the va	$\frac{5x}{6x^2 + 20x + 1}$ is		
		1	1	1
	1) $\frac{1}{4}$	$\frac{2}{6}$	3) $\frac{1}{5}$	4) $\frac{1}{7}$
60.	The ortho centre of a tr	iangle is the point where		
	1) The medians meet			0,0
<	2) The altitudes meet			20
	3) The right biscectors	of the sides of the sides n	neet	
	4) The bisectors of the	angles.	1	0
61.	ABCD is a cyclic trape.	zium in which AD    BC.	If $\angle ABC = 70^{\circ}$ , then $\angle B$	CD is
	1) 110°	2) 80°	3) 70°	4) 90°
62.	If $\cos 27^{\circ} = X$ , the value	ne of tan 63° is	20	
	X	$2) \frac{x}{\sqrt{1+x^2}}$	$\sqrt{1-x^2}$	4) $\frac{\sqrt{1+x^2}}{}$
	$1) \frac{x}{\sqrt{1-x^2}}$	$2) \overline{\sqrt{1+x^2}}$	3) <u>x</u>	4) —
63.				series is 19. Find the first
	term.	30.		
	1) 3	2) 5	3) 7	4) 8
64.	- / / /	· · · · · · · · · · · · · · · · · · ·		is 30. If the average marks
	of passed candidates is a passed the examination		andidates is 10, what is the	number of candidates who
	1) 60	2) 70	3) 80	4) 90
65.	1. 11.	21, then the value of (a –		<del>1</del> ) )U
<b>U</b> S.	1) 15	2) 16	3) 17	4) 18
66.		$(x) = x^3 - P, \text{ then P is equal}$	•	<del>1</del> ) 10
vv.	(A = +/(A + +A + 10	$j - \Lambda = 1$ , upon 1 15 cqua	1 10	

2) 8

1) 27

3) 64

4) 0

- **67.** G is the centroid of  $\triangle$  ABC. If AG = BC, then measure of  $\angle$ BGC is
  - 1) 45°

- 2) 60°
- 3) 90°
- 4) 120°
- 68. In a circle, a chord,  $5\sqrt{2}$  cm long, makes a right angle at the centre. Then the length of the radius of the circle will be
  - 1) 2.5 cm
- 2) 5 cm
- 3) 7.5 cm
- 4) 10 cm

- **69.** If  $\cos^2 x + \cos^4 x = 1$ , then  $\tan^2 x + \tan^4 x = 1$ 
  - 1) 0

2) 1

- 3)  $2 \tan^2 x$
- 4) 2 tan<sup>4</sup> x
- **70.** The angle of elevation of an aeroplane from a point on the ground is 45°. After flying for 15 seconds, the elevation changes to 30°. If the aeroplane is flying at a height of 2500 metres, then the speed of the aeroplane in km/hr. is
  - 1) 600

- 2)  $600(\sqrt{3} + 1)$
- 3)  $600\sqrt{3}$
- 4)  $600(\sqrt{3} 1)$
- **71.** Thousand solid metallic spheres of diameter 6 cm are melted and recast in to a new solid sphere. The diameter of the new sphere (in cm)
  - 1) 30

- 2) 90
- 3) 45

4) 60

Directions(72-75): The graph shows the production of food grains of a country in different years. Study the graph and answer the questions.



- 72. The sum of the production of food grains in the years 1982 and 1984 is equal to that in the year
  - 1) 1980
- 2) 1981
- 3) 1983
- 4) 1985
- 73. The difference between the production of food grains in the years 1981 and 1985 is
  - 1) 500 tonnes
- 2) 1000 tonnes
- 3) 5000 tonnes
- 4) 10000 tonnes
- 74. The percentage increase in production from 1984 to 1985 was
  - 1) 15

2) 30

3) 50

- 4) 100
- **75.** The two consecutive years in which rate of change of production of food grains is minimum are.
  - 1) 1980 and 1981

2) 1982 and 1983

3) 1984 and 1985

4) 1983 and 1984

### **ENGLISH COMPREHENSION**

76.	In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word <b>NONPLUSSED.</b>				
	1) INJURIOUS	2) ABUSIVE	3) PUZZLED	4) ENORMOUS	
77.	In the following question to the given word <b>VISIO</b>		ives, choose the word whi	ich is opposite in meaning	
	1) REALIST	2) ARTIST	3) IDEALIST	4) SOCIALIST	
78.	Four words are given, ou and click the button corre	•	d is spelt correctly. Choose	se the correctly spelt word	
	1) Desorientation		2) Disorientetion		
	3) Dysorientation	~	4) Disorientation		
Dire	ctions(79 – 81): In the foll	owing questions, one par	rt of the sentence may hav	e an error. Find out which	
-	of the sentence has an error, choose the 'No error' option		tive corresponding to it. It	f the sentence is free from	
<b>79.</b>	I Will not(1)/ stay here a	nother minute (2)/ if i can	n help it! (3)/ No Error (4)	).	
80.	Roger dressed (1)/ in is b	est shirt, (2)/ silver tie ar	nd black jacket. (3)/ No En	rror (4).	
81.	They are looking forward	1 (1)/ to meet (2)/ their pa	arents. (3)/ No Error (4).		
alterr	etions $(82 - 84)$ : The sent natives are suggested for each	•		appropriate word(s). Four alternative.	
82.	You are comn	non sense.			
	1) lacking	2) devoid in	3) devoid of	4) dull on	
83.	He ran so fast		, 10 y.		
	1) that he fell	2) so he fell	3) he fell	4) that he is falling	
84.	The doctor has been	to attend to an urgent car			
	1) called	2) called in	3) called by	4) call over	
	etions $(85 - 87)$ : In each of natives which best expresses	1	· ·	Idiom/ Phrase. Choose the	
85.	To nip in the bud	30.			
	1) To stop some thing at	the start	2) To trim the flowers		
	3) To pluck the flowers		4) To steal from		
86.	To put a spoke in one's	wheel			
	1) To repair one's cycle		2) To hinder		
<	3) To trip a rider		4) To add an extra whee	21	
87.	To clip one's wings				
	1) To stop one from flyin	g	2) To trim the leaves		
	3) To deprive one of pow	10 <b>r</b>	4) To hurt a bird		

	etions $(88 - 90)$ : Out of the structure of the structur	he four alternatives, choose	ose the one which can be	substituted for the given
88.	An act of travelling from	one place to another		
	1) series	2) journey	3) sequence	4) programme
89.	The thing no longer in us	se		26
	1) obstacle	2) obsolete	3) obsidian	4) obstruction
90.	Misappropriation of mon	ey	10	9.
	1) embezzlement	2) robbery	3) theft	4) fraud
Four corre	alternatives are given to t	he <b>Bold</b> part which will i	a sentence/ a part of the semprove the sentence. Cho eeded, choose the alter	ose the correct alternative
91.	The Vice Chancellor con	gratulated the blind stude	ent for his success in the ex	xamination
	1) in his	2) on his	3) over his	4) no improvement
92.	I am sorry but I will not	believe the story you have	ve told me	
	1) do not believe		2) am not believed	
	3) have not believed		4) no improvement	
93.	Due to the fall in real estat	e prices builders have stop	ped from constructing mu	ltistoreyed office buildings
	1) at constructing		2) to constructing	200
	3) stopped constructing		4) no improvement	
94.	Not having practiced his	lines he cut an angry fig	gure on the stage	2.
	1) cut a confused figure		2) cut a sorry face	
	3) cut a sorry figure		4) no improvement	
95.	My brother would gladly	y given you his car if you	had ask him.	
	1) would gladly give	~	2) would have gladly give	ven
	3) would gladly gave	40)	4) no improvement	
	etion(96 – 100): A passage est answer to each question		s following it. Read the pas ves	ssage carefully and choose
	Ants have been livin	g on the earth for more	than 100 million years	and can be found almost
anyw	here on the planet. It is e	stimated that there are ab	out 20000 different specie	es of ants. For this reason
		•	you watch ants for any le	•
		•	effectively too. Ants comm	
			d pheromones to leave so ants build simple little m	
		**	make a stronger mound the	

rain. Western Harvester ants make a small mound on top, but then tunnels up to 15 feet straight down to hibernate during winter. Ant mounds consist of many chambers connected by tunnels. Different chambers are used for nurseries, food storage, and resting places for the worker ants. Some ants live in wood like termites.

Army ants don't make a home at all but travel in large groups searching for food. Ants are social insects which means they live in large colonies or groups. Some colonies consist of millions of ants. There are three types of ants in each species, the queen, the sterile female workers and males. The male ants only serve one purpose, to mate with future queen ants and do not live very long. The queen grows to adulthood, mates, and then spends rest of her life laying eggs. A colony may have only one queen, or there may be many queens depending on the species. Ants go through four stages of development: egg, larva, pupa and adult.

- **96.** Why are ants called the 'Earth's' most successful species?
  - 1) Because they have been on earth for more than a 100 million years
  - 2) Because they can be found anywhere on earth
  - 3) Because they have been on earth for more than a 100 million years and because they can be found anywhere on earth
  - 4) Because there are 20000 different species of ants on earth
- **97.** Antennae are used by ants to
  - 1) Leave a trail for other ants
  - 2) Communicate
  - 3) Find direction
  - 4) Touch and feel each other
- **98.** What does the Western Harvester do in winter?
  - 1) It travels
  - 2) It builds different types of homes
  - 3) It hibernates
  - 4) It searches for food
- **99.** What kind of homes do the army of ants build?
  - 1) Simple little mounds made out of dirt or sand
  - 2) Stronger mounds of small sticks mixed with dirt and sand
  - 3) Small mounds on top but with tunnels upto 15 feet below
  - 4) They do not make homes but travel in search of food
- **100.** What is the purpose of male ants?
  - 1) To lay eggs

2) To protect the colony

is ver

- 3) To mate with future queen ants
- 4) To live a long life

#### **ANSWERS**

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1-3; 2-3; 3-4; 4-3; 5-2; 6-4; 7-1; 8-3; 9-3; 10-1; 11-2; 12-3; 13-2; 14-3; 15-1; 16-2; 17-1; 18-3; 19-4; 20-4; 21-1; 22-3; 23-3; 24-3; 25-2; 26-3; 27-2; 28-2; 29-1; 30-4; 31-2; 32-3; 33-2; 34-1; 35-1; 36-1; 37-3; 38-2; 39-1; 40-3; 41-3; 42-3; 43-1; 44-1; 45-4; 46-4; 47-4; 48-2; 49-2; 50-1; 51-1; 52-3; 53-3; 54-2; 55-4; 56-3; 57-1; 58-4; 59-4; 60-2; 61-3; 62-1; 63-1; 64-3; 65-2; 66-3; 67-3; 68-2; 69-2; 70-4; 71-4; 72-2; 73-3; 74-4; 75-1; 76-3; 77-1; 78-4; 79-4; 80-2; 81-2; 82-3; 83-1; 84-2; 85-1; 86-2; 87-3; 88-2; 89-2; 90-1; 91-2; 92-2; 93-3; 94-3; 95-2; 96-3; 97-2; 98-3; 99-4; 100-3.
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