STAFF SELECTION COMMISSION

COMBINED GRADUATE LEVEL

TIER-I PREVIOUS PAPER 2016

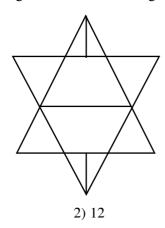
GENERAL INTELLIGENCE

1.	Select the related letters	from the given alternative	es.	3			
	PZQW: NXOU:: FISK:?						
	1) EFPJ	2) FERI	3) DGQI	4) HKVM			
2.	Select the related word J	pair from the given altern	atives.				
	Head: Human Body::	?	2				
	1) Arc: Circle	2) Cube: Circle	3) Square : Circle	4) Triangle: Circle			
3.	Select the related number	r from the given alternati	ves.				
	7:19::10:?	900					
	1) 25	2) 30	3) 21	4) 23			
4.	Find the odd word from	the given alternatives.					
	1) Bigger	2) Faster	3) Greater	4) Taller			
5.	Find the odd letters from	the given alternatives.		X			
	1) AEIM	2) BFJN	3) CGKO	4) FDKN			
6.	Find the odd number pair	r from the given alternati	ves.				
	$1) 140 \rightarrow 45$	$2) 110 \rightarrow 35$	3) 100 → 30	4) 80 → 25			
7.	Arrange the following w	ords as per order in the d	ictionary?				
	1. Forest 2. Fascinating	3. Fantastic 4. Fabulo	ous				
	1) 2, 4, 3, 1	2) 4, 2, 3, 1	3) 4, 3, 2, 1	4) 2, 3, 4, 1			
8.		when sequentially placed	at the gaps in the given le	etter series shall complete			
	it?	² O ²					
	a_ca_c_dc_d_ad_	20.5	2) 1 1	A) 11			
0	1) ddacdc	2) daadca	3) dadaac	4) ddaacc			
9.	Which number comes ne	ext in the series?					
	1, 5, 2, 6, 3, 7, ?	2) 5	2) 4	4) 2			
10	1) 6	2) 5	3) 4	4) 3			
10.	×1/1/2	_	thter is R's sister. What is				
11	1) Mother	2) Grandmother	3) Sister	4) Aunt			
11.	11. A man was 32 years of age when he had his first son. His wife was 35 years of age when his son attained the age of 7 years. The difference between the age of the father and mother is						
	1) 7 years	2) 3 years	3) 5 years	4) 4 years			

12.	word						
	ANNOUNCEMENT	S					
	1) CEMENT	2) NOUN	3) COUNTER	4) TENSE			
13.	If RATION is written	n as OXQFLK then LUM	BER may be written as				
	1) KTLADQ	2) ITJABQ	3) OXPEHU	4) IRJYBO			
14.		y A by B; A@B means di then find the value of 10*	10	ns add B to A and $A = B$ means			
	1) 100	2) 45	3) 1000	4) 55			
15.	If $37 * 14 = -17$,		.63				
	69 * 33 = 34,						
	91 * 125 = 72	2177	,				
	then what should be	28 * 56 = ?					
	1) 26	2) 42	3) 34	4) 28			
16.	Select the missing nu	umber from the given resp	oonses				
	21 56 70			×			
	45 87 84						
	115 180 ?						
	1) 110	2) 120	3) 130	4) 140			
17.	P started walking from	om North to South. She t	urned right at right ang	le and then again right at right			
	angle. In which direc	ction was she ultimately w	alking?				
	1) North	2) East	3) South	4) West			
18.	_			n conclusions/ assumptions can			
	·	from the given statements					
	Statements:						
	All states having dams face no water problem.						
	One of the states has	no dam.					
	Conclusions: I. It may be facing water problem.						
II. Dams solve water problem.1) Only Conclusion I follows							
	2) Only Conclusion I						
	·	I and Conclusion II follow	16				
	4) Neither Conclusion I nor Conclusion II follows						

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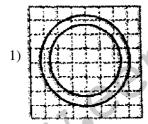
19. How many triangles are there in this figure?

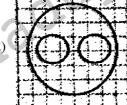


1) 10

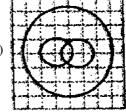
- 4) 16
- 20. Which of the answer figures illustrates the relationship between:

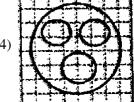
Delhi, Sri Lanka, Asia



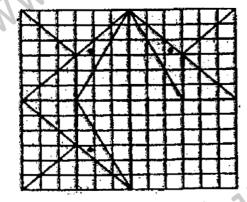


3)





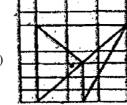
21. Which answer figure will complete the pattern in the question figure?

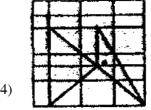


1)

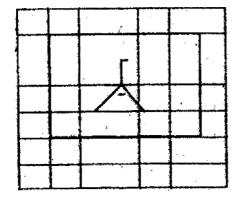


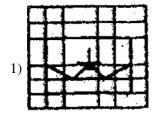
2)





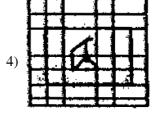
22. From the given answer figures, select the one in which the question figure is hidden/embedded





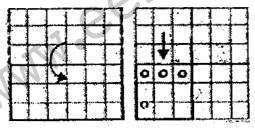


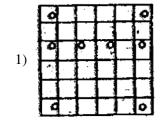


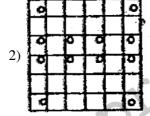


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23. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

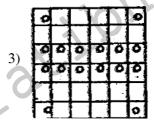


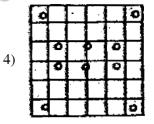




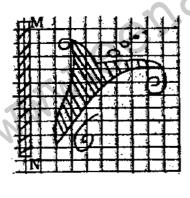
1)

3)



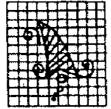


24. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?











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 alphabets 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 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 03, 55, etc., and 'P' can be represented by 10, 99, etc. Similarly you have to identify the set for the word 'VENU'

Matrix-1						
	0	1	2	3	4	
0	K	G	Е	A	S	
1	Р	V	Н	R	Y	
2	N	U	N	R	K	
3	W	S	В	О	K	
4	Т	U	A	1	Р	

Matrix-II						
	5	6	7	8	9	
5	A	Н	U	W	N	
6	Y	R	В	Т	V	
7	0	I	Н	В	Q	
8	V	О	Е	I	S	
9	Е	T	K	W	Р	

1) 69, 87, 32, 41

2) 85, 02, 20, 57

3) 11,95,89,57

5. 69,95,22,04

GENERAL AWARENESS

26.	What is the	phenomenon	which	established	the	transverse	nature	of light	?
-----	-------------	------------	-------	-------------	-----	------------	--------	----------	---

1) Reflection

2) Interference

3) Diffraction

4) Polarisation

27. What is the name of a memory buffer used to accommodate a speed differential?

1) Cache

2) Stack Pointer

3) Accumulator

4) Disc

28. What is contained in Chlorophyll?

1) Sodium

2) Potassium

3) Manganese

4) Magnesium

29. Epigraphy is the study of which of the following?

1) Coins

2) Inscriptions

3) Temples

4) Birds

30. Who won the Women's Singles Wimbledon Championship 2016?

1) Angilique Ruber

2) Serena Williams

3) Venus Williams

4) Steffi Graff

31. In which field is B.C Roy Award given?

1) Music

2) Journalism

3) Medicine

4) Environment

32. What is Damodar valley Corporation?

1) Statutory body

2) Municipal Corporation looking after Damodar Valley

3) A private enterprise located in Bihar

4) A non government organisation

www.eenadupratibha.net 33. Which is the highest gallantry Award in India? 1) Vir Chakra 2) Param Vishist Seva Medal 3) Kirti Chakra 4) Param Vir Chakra Who was recently appointed as the first woman president of Nepal? 34. 1) Sita Subedi 2 Pampha Bhusal 4) Bidhya Devi Bhandari 3) Urmila Rana 35. In which field is pulitzer prize awarded for outstanding work? 1) Environment Study 2) Science and Technology 3) Literature and Journalism 4) International Understanding **36.** Why is Carbon Monoxide a pollutant? 1) Reacts with haemoglobin 2) Makes nervous system inactive 3) It reacts with oxygen 4) It inhibits glycolysis **37.** Why is Rann of Kutch of India famous for? 1) Tidal and flats 2) Fertile soil 3) Dense Vegetation 4) All are correct 38. Commercial banks lend to which of the following priority sectors? 1) Heavy Industries 2) Agriculture, Small Scale Industries 3) Foreign Companies 4) State Government in emergency situation **39.** What is the accounting year of the Reserve Bank of India? 1) April-March 2) July-June 3) October-September 4) January-December What is the position of the Earth when it is at the greatest distance from the sun? 40. 3) Perihelion 1) Aphelion 2) Antipode 4) Aldiate 41. The biogas used for cooking is a mixture of which of the following? 1) Carbon dioxide and oxygen 2) Isobutance and Propane 3) Methane and carbon monoxide 4) Methane and carbon dioxide. 42. From the following, who was the first women speaker of Lok Sabha? 1) Sushma Swaraj 2) Margret Alva 3) Meera Kumar 4) Sarojini Naidu

India? 1) Western disturbances 2) Norwesters

3) Loo

43.

4) Mango showers

Which of the following wind is blowing from the Mediterranean sea to the North Western parts of

www.eenadupratibha.net 44. Azolla increases soil fertility for 1) maize cultivation 2) wheat cultivation 3) barley cultivation 4) rice cultivation 45. Which of the following is not provided in the constitution? 1) Election Commission 2) Finance Commission 3) Public Service Commission 4) Planning Commission 46. What is the popular name of Monolithic rock shrines at Mahabalipuram? 1) Rathas 2) Prasad 3) Mathika 4) Gandhakuti 47. What is the name of the device used to convert alternating current into direct current 1) Ammeter 2) Galvanometer 3) Rectifier 4) Transformer 48. Why does ice covered in sawdust not melt quickly? 1) Sawdust does not allow the air to touch the ice 2) The water is absorbed by sawdust 3) Sawdust is a bad conductor of heat 4) Sawdust is good conductor of heat 49. Which layer of the earth's atmosphere contains the ozone layer? 1) Troposphere 2) Mesosphere 3) Ionosphere 4) Stratospher 50. Where is the Great Barrier Reef located? 1) Pacific Ocean 2) Indian Ocean 3) Atlantic Ocean 4) Arctic Ocean **QUANTITATIVE APTITUDE** 51. The sum of three consecutive natural numbers each divisible by 5, is 225. The largest among them is 1) 85 2) 75 3) 70 4) 80 **52.** A can do a piece of work in 18 days. He worked at it for 12 days and B finished the remaining work in 8 days. B alone can do the whole work in 2) 24 days 3) 28 days 4) 29 days 1) 16 days The list price of an article is Rs. 900. It is available at two successive discounts of 20% and 10%. The **53.** selling price of the article is: 1) Rs. 640 2) Rs. 648 3) Rs. 540 4) Rs. 548 54. A man spends a part of his monthly income and saves the rest. The ratio of his expenditure to the savings is 61: 6. If his monthly income is Rs. 8710, the amount of his monthly savings is 1) Rs. 870 2) Rs. 690 3) Rs. 980 *55.* An article was sold at Rs. 950 allowing 5% discount on the marked price. The marked price of the

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3) Rs. 955

2) Rs. 1000

4) Rs. 945

article is

1) Rs. 960

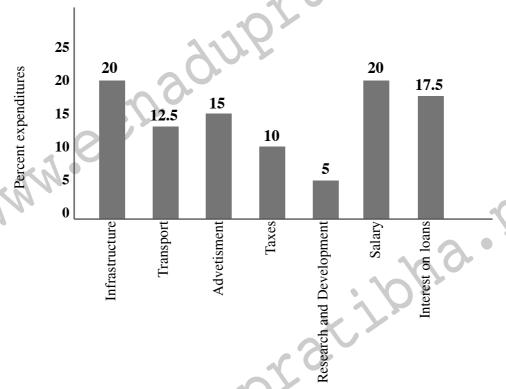
56.	A person loses 75% of his money in the first bet, 75% of the remaining in the second and 75% of the remaining in the third bet and returns home with Rs. 2 only. His initial money was					
	1) Rs. 64	2) Rs. 128	3) Rs. 256	4) Rs. 512		
57.	The time taken by a train	160 m long, running at	72 km/hr, in crossing an el	ectric pole is		
	1) 8 seconds	2) 9 seconds	3) 6 seconds	4) 4 seconds		
58.	If $x + \frac{1}{9x} = 4$, then the	value $9x^2 + \frac{1}{9x^2}$ is		2.		
	1) 140	2) 142	3) 144	4) 146		
59.	If $a = 2$, $b = -3$ then the	value of 27 $a^3 - 54 a^2b +$	$36 \text{ ab}^2 - 8\text{b}^3 \text{ is}$			
	1) 1562	2) 1616	3) 1676	4) 1728		
60.	Possible lengths of the th	aree sides of a triangle are				
	1) 2 cm, 3 cm and 6 cm	² O ₂	2) 3 cm, 4 cm and 5 cm			
	3) 2.5 cm, 3.5 cm and 6	cm 1	4) 4 cm, 4 cm and 9 cm			
61.	AD is the median of Δ A	BC. If O is the centroid a	and AO=10 cm, then OD i	S		
	1) 5 cm	2) 20 cm	3) 10 cm	4) 30 cm		
62.	If in a triangle ABC, sin	A= cos B, Then the value	of cos C is			
	$1) \frac{\sqrt{3}}{2}$	2) 0	3) 1	$4) \frac{1}{\sqrt{2}}$		
63.	Incentre of \triangle ABC is I. 2	$\angle ABC=90^{\circ}$ and $\angle ACB=7$	70°. ∠AIC is			
	1) 115°	2) 100°	3) 110°	4) 135°		
64.	The length of the two respectively. Then the rac	•	angle inscribed in a circ	le are 5 cm and 12 cm		
	1) 6 cm	2) 6.5 cm	3) 8 cm	4) 8.5 cm		
65.	If $\sin \theta \times \cos \theta = \frac{1}{2}$. The		where $0^{\circ} < 0 < 90^{\circ}$			
	1) 0	$2)\sqrt{2}$	3) 2	4) 1		
66.	The mean of 100 observations was calculated as 40. It was found later on that one of the observations was misread as 83 instead of 53. The correct mean is:					
	1) 39	2) 39.7	3) 40.3	4) 42.7		
67.	If $a^3 + \frac{1}{a^3} = 2$, then value 1) 1 If $x\left(3 - \frac{2}{x}\right) = \frac{3}{x}$, then	the of $\frac{a^2 + 1}{a}$ is (a is a positive)	sitive number)			
	1) 1	2) 2	3) 3	4) 4		
68.	If $x\left(3 - \frac{2}{x}\right) = \frac{3}{x}$, there	the value of $x^2 + \frac{1}{x^2}$ w	vill be			
	1) 3 1/9	2) 3 2/9	3) 2 1/9	4) 2 4/9		

- **69.** A sphere of radius 5 cm is melted to form a cone with base of same radius. The height (in cm) of the cone is
 - 1) 5

- 2) 10
- 3) 20

- 4) 22
- **70.** The difference between compound interest and simple interest on a certain sum of money for 2 years at 5% per annum is Rs. 41. What is the sum of money?
 - 1) Rs. 7200
- 2) Rs. 9600
- 3) Rs. 16400
- 4) Rs. 8400
- 71. A man standing on the bank of river observes that the angle subtended by a tree on the opposite bank is 60°. When he retires 36 m From the bank, he finds that the angle is 30°. The breadth of the river is.
 - 1) 15 metre
- 2) 18 metre
- 3) 16 metre
- 4) 11 metre

Directions (72–75): Study the bar-graph given below which shows the percent distribution of total expenditures of a company under various expenses and answer the questions.



- 72. The expenditure on the interest on loans is more than the expenditure on transport by
 - 1) 5%

- 2) 10%
- 3) 40%
- 4) 30%
- **73.** If The interest on loans amounted to Rs. 2.45 crores, then the total amount of expenditure on advertisement, taxes and research and development is
 - 1) Rs. 7 crores
- 2) Rs. 4.2 crores
- 3) Rs. 5.4 crores
- 4) Rs. 3 crores
- **74.** The ratio of the total expenditure on infrastructure and transport to the total expenditure on taxes and interest on loans is
 - 1) 5:4
- 2)8:7
- 3) 9:7
- 4) 13:11
- **75.** If the total expenditure of the company is Rs. 20 crores, then the ratio of expenditure on transport to that on salary is
 - 1) 5:4
- 2)4:5
- 3) 5:8
- 4) 8:5

ENGLISH COMPREHENSION

76.	In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word.					
	ENIGMA					
	1) Attractive	2) Riddle	3) Flare-up	4) Dream		
77.	In the following question to the given word.	n, out of the four alternati	ves, choose the word whi	ch is opposite in meaning		
	INERTIA		10/1			
	1) Stupor	2) Vigour	3) Languor	4) Inertness		
78.	Four words are given, or	ut of which only one word	d is spelt correctly. Choose	e the correctly spelt word.		
	1) Pious	2) Pios	3) Pieos	4) Piuos		
Direc	tions $(79 - 81)$: In the fol	lowing questions, one par	t of the sentence may have	e an error: Find out which		
_		r and choose the option co	orresponding to it. If the s	entence is free from error,		
	se the "No error" option.	20.				
79.		n a (2) /red beautiful ballo				
80.	She has had the best med have a strong desire to li		1)/ but she will not be cure	ed (2)/ unless she does not		
81.	As if aware of my cond	lition (1)/ the infuriated b	oird suddenly doubled bac	ck on its course (2) / and		
	charged straight after me	e. (3)/ No error (4)		260		
`			are to be filled with an appearance estion, choose the correct	ppropriate word (s). Four alternative.		
82.	The passengers were afr	aid but the captain th	nem that there was no dan	ger.		
	1) suggested	2) pleaded	3) advise	4) assured		
83.	I insisted his	leaving the place.	~ 7.8			
	1) on	2) about	3) in	4) with		
84.	Please don't me	when I'm speaking.	0			
	1) interrupted	2) interrupts	3) interrupt	4) interrupting		
		-	_	Idiom/Phrase. Choose the		
	ative which best expresse	s the meaning of the Idior	n/Phrase.			
85.	Beat around the bush	70				
	1) Walk around the fores		2) Clean the bushy areas			
	3) Avoiding the main top	pic	4) Play around the forest	t		
86.	Make room					
<	1) Clean the room		2) Make space			
	3) Attain the room		4) Make a clean sweep			
87.						
	1) Happy with one's beh		2) Sad with one's behavi			
	3) Destroy one's behavior	our	4) Improve one's behavior	our		

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Directions (88 – 90): In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentences.

88. A record of one's own life written by oneself

1) History

2) Biography

3) Bibliography

4) Autobiography

89. Belong to the same period

1) Comrades

2) Contemporaries

3) Compromises

4) Renegades

90. One who listens secretly to private conversation

1) Eavesdropper

2) Encroacher

3) Eaves bearer

4) Listener

Directions (91 - 95): In each of the following questions, a sentence/ a part of the sentence is printed in bold. Four alternatives are given to the bold part which will improve the sentence. Choose the correct alternative corresponding to it. In case no improvement is needed, choose the option corresponding to "No improvement".

91. You must complete this work up to Sunday.

1) within Sunday

2) by Sunday

3) on to Sunday

4) No improvement

92. Hole wheat bread is good for health.

1) Whole

2) Healthy

3) Holed

4) No improvement

93. She has no pen to write.

1) write with

2) write at

3) write in

4) No improvement

94. He dislikes the word, **isn't he**?

1) doesn't he?

2) didn't he?

3) does he?

4) No improvement

95. He is one of **those who likes to help others**.

1) those persons who like to help others

2) those who like to help other

3) those who like to help others

4) No improvement

Directions (96 – 100): A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Crude mineral oil comes out of the earth as a thick brown or black liquid with a strong smell. It is a complex mixture of many different substances, each with its own, individual qualities. Most of them are combinations of hydrogen and carbon in varying proportions. Such hydrocarbons are also found in other forms such as bitumen, asphalt and natural gas. Mineral oil originates from the carcasses of tiny animals and from plants that live in the sea. Over million of years, these dead creatures form large deposits under sea-bed and ocean currents cover them with a blanket of sand and silt. As this material hardens, it becomes sedimentary rock and effectively shuts out the oxygen, thus preventing the complete decomposition of the marine deposits underneath. The layers of sedimentary rocks become thicker, and heavier. Their pressure produces heat, which transforms the tiny carcasses into crude oil in a process that is still going on today.

- 96. How does crude oil come out of the earth?
 - 1) Thick brown or black liquid with mild smell
 - 2) Thick red brown liquid with strong smell
 - 3) Mixture of different colours
 - atilona.net 4) Thick brown or black liquid with a strong smell
- **97.** What is crude mineral oil?
 - 1) Complex mixture of many different substances
 - 2) Simple mixture of natural gas
 - 3) Plain white oil
 - 4) It is bitumen
- 98. From where does mineral oil originate?
 - 1) Complex mixture of substances
 - 2) Carcasses of tiny animals and plants that live in the sea
 - 3) From lakes
 - 4) Only from plants
- 99. The time taken for the marine deposits to harden into rocks is
 - 1) a few centuries

2) millions of years

3) a few decades

- 4) thousands of years
- **100.** Sedimentary rocks lead to the formation of oil deposits because
 - 1) their pressure produces heat and turns deposits of animal carcasses and plants into oil.
 - 2) it turns heavy and shuts out the oxygen
 - 3) it becomes hard and forms into rocks to squeeze oil
 - 4) it becomes light and soft and applies pressure to produce oil

ANSWERS

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