Time: 1½ hours

Full Marks: 100

Instructions: The figures in the right-hand margin indicate full marks for the questions.

- 1. A group of friends are sitting in an arrangement one each at the corner of an octagonal table and all facing the center. Mayuri is sitting diagonally opposite to Joseph, who is sitting on Swatee's right. Rakesh is next to Swatee, and opposite Ibrahim, who is on Kumar's left. Tapasya is not on Mayuri's right, but opposite Venessa. Who is sitting on Venessa's right?
 - (A) Joseph
 - (B) Rakesh
 - (C) Mayuri
 - (D) Kumar
- 2. Kaplan is three years older than his wife, Miriam, and four times as old as his son Sigmund. If Sigmund becomes 15 years old after 3 years, what is the present age of Miriam?
 - (A) 55 years

(B) 50 years

(C) 48 years

(D) 45 years

- 3. Identify the correctly spelt word
 - (A) CIRCUMSTANSE
 - (B) CIRCUMNAVIGETE
 - (C) CIRCUMFERENCE
 - (D) CIRCUMSATNTIAL
- 4. For the detectives, clues available at a crime scene are
 - (A) suggestive
 - (B) circumstantial
 - (C) inferential
 - (D) derivative

SEAL

- **5.** Which of the given responses would be a meaningful order of the following words in context of our society?
 - I. Country
 - II. Family
 - III. Member
 - IV. Locality
 - V. State
 - (A) III, II, IV, V, I
 - (B) III, IV, I, V, II
 - (C) I, II, III, IV, V
 - (D) III, II, V, IV, I
- **6.** In a parliamentary form of government, real powers of the State are vested in the
 - (A) President
 - (B) Chief Justice of Supreme Court
 - (C) Council of Ministers headed by the Prime Minister
 - (D) Parliament
- 7. At which site of excavation was a status of a bearded man found?
 - (A) Pamir
 - (B) Harappa
 - (C) Mohenjodaro
 - (D) Lothal
- 8. The main characteristic of the Indus Valley Civilization was
 - (A) town planning
 - (B) drainage system
 - (C) pucca houses
 - (D) well laid out roads

9.	Whi	ich of the following organs is used in the purification of blood in human y?	
	(A)	Liver	
	(B)	Kidney	
	(C)	Spleen	
	(D)	Lungs	
10.	The	largest continent in the world is	
	(A)	Europe	
	(B)	North America	
	(C)	Asia	
	(D)	Africa	
11.	Pac	emaker is implanted in heart when one of the following is defective :	
	(A)	SA node	
	(B)	AV node	
	(C)	Purkinje fibers	
	(D)		
	,		
12.	Liqu	uefied Petroleum Gas (LPG) is mainly a mixture of	
	(A)	propane and butane	

(B) butane and methane

(C) propane and isobutene

(D) propane and methane

13.	Who	o initiated the Home Rule Movement in India?
	(A)	Chittaranjan Das
	(B)	Lala Lajpat Rai
	(C)	Annie Besant
	(D)	Maulana Abdul Kalam Azad
14.		which of the following countries is the temple of Preah Vihear, a ESCO World Heritage sites?
	(A)	Thailand
	(B)	Myanmar
	(C)	Cambodia
	(D)	Vietnam
15.	Gau	itam Buddha had attained Enlightment (or Buddhahood) in the present
	(A)	Bodh Gaya in Bihar, India
	(B)	Lumbini, in the Rupandehi District of Nepal
	(C)	Kushinagar, close to the modern Kasia (Uttar Pradesh), India
	(D)	Sarnath, formally Isipathana, Uttar Pradesh, India
16.	The	heart is covered by a membrane called
	(A)	epidermis
	(B)	dermis
	(C)	cerebellum
	(D)	pericardium

3							
17	The	Periyar G	ame	Sanctuary	is	renowned	for
	(A)	lions					
	(B)	spotted d	eer				

(C) two-humped Bactrian camels

- (D) wild elephants
- 18. Which of the following components of blood protects human beings from infection?
 - (A) Plasma
 - (B) Platelets (thrombocytes)
 - (C) Red blood cells (erythrocytes)
 - (D) White blood cells (leukocytes)
- 19. What is 'Kalaripayattu'?
 - (A) It is an ancient martial art and a living tradition in some parts of South India
 - (B) It is an ancient style bronze and brass work still found in southern part of Coromandel area
 - (C) It is an ancient form of dance-drama and a living tradition in the northern part of Malabar
 - (D) It is an ancient Bhakti cult of Shaivism still prevalent in some parts of South India
- 20. 'Dakshin Gangotri' is located in
 - (A) Uttarakhand
 - (B) Arctic
 - (C) Himalaya
 - (D) Antarctica

- 21. Who proposed the Preamble before the Drafting Committee of the Constitution?
 - (A) Jawaharlal Nehru
 - (B) Dr. B. R. Ambedkar
 - (C) B. N. Rao
 - (D) Mahatma Gandhi
- 22. Consider the following statements regarding blood pressure:
 - 1. It is the pressure exerted by the blood on the walls of any vessel.
 - 2. It decreases in the arteries as the distance from the heart increases.
 - 3. It is lower in the capillaries than in the arteries.
 - 4. It is usually lower in women than in men.

Of these

- (A) only 1 and 4 are correct
- (B) all are correct except 4
- (C) all are correct except 1
- (D) all of them are correct
- 23. Which is the World's longest railway line?
 - (A) Trans-Siberian line
 - (B) Texas Railway line
 - (C) Trans-Austin line
 - (D) Trans-American line
- 24. Which of the following can initiate the process of impeachment of the President of India?
 - (A) Any house of the Parliament
 - (B) The Lok Sabha alone
 - (C) The Rajya Sabha alone
 - (D) The Supreme Court of India

25.	The UNESCO Mahatma Gandhi Institute of Education for Peace and sustainable development (MGIEP), is presently housed in the first floor of ICSSR building at					
	(A)	New Delhi				
	(B)	Ahmedabad				
	(C)	Mumbai				
	(D)	Pune	75			
26.	The	e longest day in Australia is				
	(A)	22 June (B) 22 December				
	(C)	21 March (D) 22 September				
27.	Dur	ring Rig-Vedic Age the normal form of Government was				
	(A)	republic				
	(B)	democracy				
	(C)	monarchy				
	(D)	None of the above				
28.	Dur	ring the Gupta period of Ancient India, administration was				
	(A)	democratic				
	(B)	republic				
``	(C)	monarchial				
	(D)	None of the above				
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- 29. The Mughal Empire extended up to Tamil territory in the South under the reign of
 - (A) Jahangir
 - (B) Akbar
 - (C) Aurangzeb
 - (D) Shahjahan
- 30. The Grand Trunk Road which ran from the Indus to Sonargaon (in Bangladesh) was renovated in the Medieval times by
 - (A) Shahjahan
 - (B) Jahangir
 - (C) Sher Shah
 - (D) Akbar
- 31. Which of the following institutions was not founded by Mahatma Gandhi?
 - (A) Sabarmati Ashram
 - (B) Sevagram Ashram
 - (C) Vishwa Bharati
 - (D) Tolstoy Farm
- **32.** Which of the following factors influenced the British to transfer power to the Indians?
 - (A) The Indian armed forces could no longer be relied upon for their loyalty to the British
 - (B) Revolutionary activities had affected law and order system
 - (C) Large scale labour unrest and hostile public mood
 - (D) The Second World War had weakened Britain economically and politically

33.	3. Of the following, whose ideas had influenced Mahatma Gandhi's thought?							
	(A)	Lenin	(B)	Tolstoy				
	(C)	Hitler	(D)	Karl Marx				
34.	Who	o marched with the slogan 'Dilli Cha	alo'?					
	(A)	Sardar Vallabhbhai Patel						
	(B)	Subhas Chandra Bose						
	(C)	Jawaharlal Nehru						
	(D)	Mohandas Karamchand Gandhi						
35.		der which Article of Constitution Jacial constitutional position?	amm	u and Kashmir	does enjoy			
	(A)	Article-370	(B)	Article-356				
	(C)	Article-170	(D)	Article-124				
36.	Inst	rument used to detect earthquake i	s kn	own as				
	(A)	seismometer						
	(B)	quadrometer						
	(C)	barometer						
	(D)	nanometer						
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38.	Gre	at Barrier Reef is near of		
	(A)	Australia		
	(B)	Uganda	⁵ e	
(*)	(C)	Mexico		
	(D)	San Francisco		
39.	Selv	va Amazonica are		
	(A)	an amazonian musical instrument		
	(B)	mountain range of Brazil		
	(C)	deadly fish of amazon river		
	(D)	equatorial rainforests of Brazil		
40.	The	e Channel Tunnel, or Chunnel connects		
		,		
	(A)	France and Denmark		
	(B)	Spain and Italy		
	(C)	England and France		
	(D)	England and Wales		
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_, -		The state of the s		

37. Which from the following is a land-locked sea?

(B) Timor Sea

(D) Aral Sea

(A) North Sea

(C) Red Sea

- **41.** Which of the following is astronomically correct with respect to 'Great Bear'?
 - (A) Planet
 - (B) Galaxy
 - (C) Star
 - (D) Constellation
- **42.** The differences between asteroids and comets are given in three sentences:
 - I. Asteroids are small rocky planetoids, while comets are formed of frozen gases held together by rocky and metallic material
 - II. Asteroids are found mostly between the orbits of Jupiter and Saturn, while comets are found mostly between Venus and Mercury
 - III. Comets show a perceptible glowing tail, while asteroids do not Which of the following statements given above is/are correct?
 - (A) I and II only
 - (B) I and III only
 - (C) III only
 - (D) I, II and III
- 43. The speed of rotation of the earth is the highest
 - (A) along the equator
 - (B) at the North-pole
 - (C) along the Tropic of Cancer
 - (D) along the Arctic Circle
- 44. Rana Pratap Sagar Plant (Rajasthan) is associated with
 - (A) crude oil
 - (B) nuclear power
 - (C) solar energy
 - (D) hydroelectricity

45.	Whi	ch State is the largest producer of onion in India?
	(A)	Maharashtra
	(B)	Madhya Pradesh
	(C)	Karnataka
	(D)	Andhra Pradesh
46.	Japa	anese iron and steel industry is an example of industry based on
	(A)	export of skilled labour
	(B)	export of local raw material
	(C)	export of value added local raw-material
	(D)	export of value added imported raw-material
47.	Whi	ch country is the largest exporter of coal?
	(A)	Poland
	(B)	Australia
	(C)	India
	(D)	Czechoslovakia
48.	Lar	gest producer of paper pulp is
	(A)	Kyoto of Japan
	(B)	Melbourne of Australia
	(C)	China
	(D)	None of the above

50.		which one of the following areas in Chipko Movement in Indeted first of all?	ia was
	(A)	Garhwal area	
	(B)	Narmada Valley	
	(C)	Himachal region	
	(D)	Jammu and Kashmir	
51.	Wha	at was the name of football in FIFA World Cup 2018?	
	(A)	Brazuca	
	(B)	Telstar	
	(C)	Teamgeist	
	(D)	Jabulani	
52.	Who	o sang the theme song of FIFA World Cup 2014?	
	(A)	Pitbull and Jennifer Lopez	
	(B)	Kesha Rose Sebert	
	(C)	Lady Gaga	
	(D)	Enrique Iglesias	
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49. Which one of the following National Parks is situated in Gujarat?

Corbett National Park

(C) Kaziranga National Park

(D) Kanha National Park

(B) Gir National Park

- 53. Who became the first cricketer to score four successive one day international centuries during World Cup 2015?
 (A) Virat Kohli
 (B) Kumara Sangakkara
 (C) Martin Guptil
 (D) Hashim Amla
- 54. Cricket World Cup 2015 was jointly hosted by
 - (A) Australia and New Zealand
 - (B) India and Bangladesh
 - (C) South Africa and Zimbabwe
 - (D) Australia and West-Indies
- **55.** A person standing in front of a mirror finds his image larger than himself. This implies that the mirror is
 - (A) concave
 - (B) plane
 - (C) convex
 - (D) cylindrical with bulging side outwards
- 56. Electric transformers are used to
 - (A) filter current
 - (B) regulate current
 - (C) serve as fuse
 - (D) change voltage

57.	Of t	he following the poorest hear	t insula	tor is			
i	(A)	air	ļ	(B) glass			
	(C)	aluminum		(D) rock			
58.	Alco	hol is used as a thermometr	ric liqui	d when it is de	esired to	meası	ire
	(A)	high temperature					
	(B)	very high temperature		*			
	(C)	low temperature	a		2		
	(D)	sun temperature					
					N ₁		
59.		en an oil film on water is seen s phenomenon is due to	n in day	rtime, it shows	beautifi	al colou	ırş.
	(A)	diffraction					
	(B)	refraction			٠		
	(C)	polarization					
	(D)	interference					
60.	A re	e-usable space rocket is calle	d				
	(A)	Apollo					
9	(B)	Satellite					
	(C)	Space shuttle					
	(D)	Skylab					
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- 61. The same side of the moon always faces the earth because
 - (A) earth moves with same speed around the peripheral boundary of the moon
 - (B) moon cannot change its position with respect to its position relative to the sun
 - (C) moon and earth have gravitational force that cancels each other
 - (D) the period of rotation of moon is nearly equal to the period of its revolution around the earth
- **62.** Which of the following substances is produced during photosynthesis in plant leaves?
 - (A) Fat

(B) Carbohydrate

(C) Amino acid

- (D) Protein
- 63. Who invented the transistor?
 - (A) Edward Jenner
 - (B) J. Whinfield and J. Dickson
 - (C) Bardeen, Shockley and Brattain
 - (D) Banting, MacLeod and Best
- 64. Enzymes are
 - (A) inorganic compounds
 - (B) benevolent set of fungi
 - (C) micro-organisms
 - (D) macromolecular biological catalysts

65.		the following the only metal that is pretrical process is	oduced directly from it	ts ore by an
5.	(A)	aluminum		
	(B)	copper		
	(C)	zirconium	×	9
	(D)	steel		
66.	Wat	ter get cooled in earthen pot and not i	n a metal or glass pot b	pecause
	(A)	earthen walls are bad conductor se	o heat does not affect	the water
	(B)	earthen walls of the pot absorb he	at of water	
	(C)	evaporation through micro pores o	n walls of the earther	pot
	(D)	None of the above	N)	
67.	The	spice 'clove' is obtained from		
	(A)	bud	(B) stem	
	(C)	root	(D) fruit	
68.	Goi	tre is caused due to deficiency of	*	
	(A)	potassium		
	(B)	calcium		
	(C)	molybdenum		
	(D)	iodine		
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69.	Colours on the screen of a TV are produced by mixing
	(A) red, yellow and green
	(B) red, green and blue
	(C) red, blue and white
	(D) red, yellow and blue
70.	Which of the following gases combines together to produce ammonia gas?
	(A) Nitrogen and Oxygen
	(B) Nitrogen and Helium
	(C) Nitrogen and Hydrogen
	(D) Nitrogen and Carbon dioxide
71.	The device used for converting alternating current to direct current is
	(A) transformer
	(B) transistor
	(C) resistor
	(D) rectifier
72.	An apparatus used by the physician is
	(A) sphygmomanometer
	(B) ammeter
	(C) multimeter
	(D) venturi meter

	(B)	Test tube		
	(C)	Arm chair		
	(D)	Cryogenic fuel		
74.	Wh	o helps to carry luggage at a railway station platform?		
	(A)	Plumber		
	(B)	Porter		
	(C)	Gastronome		
	(D)	Bouncer		
75.	Sur	dar Pichai is the CEO of		
	(A)	Motorola		
	(B)	Google Inc		
	(C)	Pepsico	×	
	(D)	Coca Cola		
	100			
76.	Toba	acco major ITC started a farmer empowerment scheme	named	
	(A)	ITC farm		
	(B)	Mera Maati		
	(C)	Aakash Ganga		
	(D)	E-Choupal		
	3			
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73. Which of the following is usually made of glass?

(A) Pliers

77.	The	plinth area of a building does not include
	(A)	area of the walls at the floor level
	(B)	internal shaft for sanitary installations up to 2 sq.m. in area
	(C)	lift and wall including landing
	(D)	area of cantilevered porch
78.	In t	ime-cost optimization of a project, crashing is done
	(A)	on all the activities
	(B)	on all the activities lying on the critical path
	(C)	on original critical activities and those that become critical at any stage of crashing in the order of ascending cost slope
	(D)	only on activities lying on the original critical path and having flatter cost slopes
79.	end end	original cost of an equipment is Rs. 10,000. Its salvage value at the of its total useful life of five years is Rs. 1,000. Its book value at the of two years of its useful life (as per straight line method of evaluation epreciation) will be
	(A)	Rs. 8,800
	(B)	Rs. 7,600
	(C)	Rs. 6,400
	(D)	Rs. 5,000
	_	
80.		t iron piles
	(A)	are useful for heavy vertical loads
	(B)	resist shocks or vibrations
	(C)	are suitable for use as batter piles
	(D)	are suitable for works under seawater

(A) 30

(C) 32

(B) 31

(D) 33

81. Next term of the sequence 2, 6, 11, 17, 24 will be

82.	(0 · 1	$\times 0.01 \times 0.001 \times 10^{\prime}$) is equal to			
	(A)	1/10			
	(B)	1/100			
	(C)	1			
	(D)	10			
83.	If th	ne sides of a square is increased by	10%	6, the area increases b	у
	(A)	10%			
	(B)	21%			
	(C)	100%			
	(D)	42%			
84.		mm aluminum wire of length 36 m se radius will be	is n	nelted to form a solid	sphere
	(A)	3 mm	(B)	30 mm	
	(C)	9 mm	(D)	27 mm	
85.	five	ou deposit INR 12,000 at a certain co years, how much will you get afte eme?	-		
	(A)	INR 1,92,000			
	(B)	INR 1,78,000			
	(C)	INR 2,08,000			
	(D)	INR 1,44, 000			
36.		ne sum of certain three consecutive in of next three natural numbers is	natu	ral numbers is 27, the	en the
	(A)	42	(B)	36	
	(C)	34	(D)	32	

•	87.	If an article is sold selling price will be	at 200% profit, the	n the ratio of its	cost price to its
Š		(A) 1:2		(B) 2:1	
		(C) 1:3		(D) 3:1	
	88.	For a designer jacke price with a flat dise and 10% is INR 72.	count of 30% and to	wo consecutive d	iscounts of 20%
		(A) INR 3,600			
		(B) INR 3,000			
		(C) INR 2,400			
		(D) INR 2,500			
	89.	Rohington rows a b 5 minutes. On his 6 kilometers. What Rohington plies his	ng, he took an	hour to cover	
		(A) 12 kmph			
		(B) 6 kmph			
		(C) 9 kmph			
		(D) 3 kmph			
	90.	A number when divided by 8, the re-	mainder 36. If the	same number is	
		(A) 2			
		(B) 7			
		(C) 6			
		(D) 4			
	91.	Pick the odd one ou	t from the following	g :	
		(A) Lion			
		(B) Tiger			
	41	(C) Wolf			
		(D) Elephant			
			¥		
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92.		at would be the last letter of the locrambling TIKNET?	nge	st se	ensible wo	ord possi	ble by			
	(A)	N	(B)	T						
	(C)	K	(D)	I	/					
93.	Find a single letter the provided options which if substituted in the following words would form entirely new words: "ROBE, JUST, MEND, ROYAL"									
	(A)	D	(B)	M						
	(C)	S	(D)	L						
94.	Whi	Which of the following should not belong to the group?								
	(A)	Socks								
	(B)	Boots								
	(C)	Mittens								
	(D)	Shoes								
95.	Wha	at would be the next letter in the se	eries	В, 1	E, J, Q?					
	(A)	Z	(B)	Y						
	(C)	U	(D)	V						
96.	If the 2nd, 3rd, 5th, 10th, 15th and 20th letters of English alphabet is unscrambled to form a sensible word, which letter will come at second last position. But if more than one word can be made, mark S, and if no words can be made, mark X?									
	(A)	В								
	(B)	X								
	(C)	С								
	(D)	S			*					
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								92 2		2002	100
97.	Which	of	the	following	pairs	do	not	belong	to	the	group?

- (A) Bus and Diesel
- (B) Fire and Water
- (C) Car and Petrol
- (D) Lamp and Oil
- **98.** Identify the odd one out after unscrambling the following to make meaningful words
 - (A) RAUGAJ
 - (B) NAHTLEEP
 - (C) NOIL
 - (D) RETBUT
- **99.** From the options given below, which letter can be prefixed to the following words to make another set of meaningful words:

ASH, ATE, APE, AID

- (A) R
- (B) H
- (C) M
- (D) S

100. Horse: Leg: Hoof:: Man: Hand:?

- (A) Palm
- (B) Wrist
- (C) Nails
- (D) Hair

* * *