

APPOLO STUDY CENTRE



GROUP IV EXAM (11.02.2018)

GENERAL STUDIES

1. The theme of the **world special week**, celebrated from 4th October 2017 to 10th October 2017 is
Note : **(World Space Week)**
A. Exploring new world in space
B. Yoga for wellness
C. Water and energy for inclusive growth
D. Peace, progress and prosperity.
2. Who among the following women boxers was declared best boxer of the meet during the World Youth Boxing Championship held in Guwahati in 2017?
A. Nabin Chandra B. Sarjubala Devi
C. Minu Basumalary **D. Ankushita Boro**
3. Which city received India's first UNESCO Heritage City Certificate in September 2017?
A. Puri B. Kanchipuram C. Aurangabad **D. Ahmadabad**
4. Who has won the India's 46th Grandmaster Chess Champion Tournament - 2017?
A. Srinath Naren **B. Srinath Narayanan**
C. Srinath Venu D. Srinath Srinivasan

5. The 7th term of the sequence 0.12, 0.012, 0.0012 is
A. 1.2×10^6 B. 1.2×10^{-6} C. 1.2×10^7 **D. 1.2×10^{-7}**

6. Simplify :

$$\frac{9}{8} \div \frac{3}{5} \text{ of } \left(\frac{3}{4} + \frac{3}{5} \right)$$

A. $1\frac{11}{18}$ B. $1\frac{5}{18}$ C. $1\frac{13}{18}$ **D. $1\frac{7}{18}$**

7. A sum of money triples itself at 8% per annum over a certain time.
The time take is

A. 20 years B. 22 years **C. 25 years** D. 30 years.

8. Which State Government has launched Gyankunj e-class project?

A. Andhra Pradesh B. Delhi C. Kerala **D. Gujarat.**

9. The Union Ministry of health and family welfare and ICMR launched IHMI on November 28, 2017. What does IHMI stands for?

A. India Hypertension Management Initiative

B. India Health Management Initiative

C. India Heart and Mind Care Intellect

D. India Health Maintenance Initiative.

10. Match List I with List II:

List I

- a. China
- b. Pennsylvania
- c. Los Angeles
- d. India

List II

- a. St. Francis
- b. Assam
- c. Hwang Ho
- d. Johnstown

	(a)	(b)	(c)	(d)
A.	4	1	2	3
B.	3	4	1	2
C.	2	1	3	4
D.	3	1	2	4

11. Match the following and choose the correct one:

- | | |
|-------------|--------------|
| a. Panipet | 1. A.D. 1527 |
| b. Gaghra | 2. A.D. 1528 |
| c. Khanwa | 3. A.D. 1529 |
| d. Chandari | 4. A.D. 1526 |

- | | (a) | (b) | (c) | (d) |
|-----------|----------|----------|----------|----------|
| A. | 1 | 2 | 4 | 3 |
| B. | 4 | 3 | 1 | 2 |
| C. | 3 | 4 | 2 | 1 |
| D. | 2 | 1 | 3 | 4 |

12. Agricultural productivity can be measured in terms of

- A. Consumption of fertilizers and labour productivity
- B. Irrigational facilities
- C. Land and Labour productivity**
- D. Mechanization

13. Identify the incorrect pair:

- I. Washing Soda - Na_2CO_3
 - II. Bleaching Powder - CaO
 - III. Plaster of Paris - $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$
 - IV. Baking Soda - NaHCO_3
- A. I **B. II** C. III D. IV

14. The recently conducted Indo-Maldives Joint Military exercises was called as

- A. IMBAX 2017
- B. ECUVERIN 2017**
- C. INDRA 2017
- D. SAMPRITI 2017

15. India lacks a strong backhaul to get a transition to 5G with in September 2017. Backhaul is a network

- A. Portal for data discrimination
- B. Connecting cell sites to central exchange**
- C. Coupler for wireless data transmission
- D. Range finder for cellular consumer

16. Which group of plants species are lower in number in the plant kingdom?

- A. Fungi B. Pteridophyta C. Bryophytes **D. Gymnosperms**

17. Which class of algae is used in the manufacture of dynamite?

- A. Chlorophyceae **B. Chrysophyceae**
C. Cryptophyceae D. Pheophyceae

18. Which is an example for chemosynthetic heterotroph?

- A. Man** B. Viscum C. Nitrosomonas D. Beggiatoa

19. If a, b, c are in A.P., $3^a, 3^b, 3^c$ are in

- A. A.P. **B. G.P.** C. A.P. and G.P. D. None of these

20. If $-1 < r < 1$, then the sum of infinite number of a geometric series is

- A. $a \frac{(r^n - 1)}{r - 1}$ B. $a \frac{(1 - r^n)}{1 - r}$ C. $\frac{a}{1 - r}$ D. na

21. The angle in semicircle is a _____

- A. acute angle B. obtuse angle C. straight angle **D. right angle**

22. The article of the Constitution provides for a Vice President

- A. Article 53 B. Article 356 C. Article 360 **D. Article 63**

23. Consider the following statement, choose the correct answer from the codes given below

Assertion (A): The motion of the Earth rotate on its axis called rotation.

Reasons (R): Rotation movement causes seasons

- A. (A) alone is correct (R) is incorrect**
B. (A) and (R) are correct and (R) is the correct explanation of (A)
C. (A) and (R) are incorrect
D. (A) and (R) are correct but (R) is not the correct explanation of (A)

24. The rulers of the Bhopal Shajehan Begum and Sultana Jehan Begum provided monetary support for the preservation of the ancient site

- A. Saranath pillar **B. Sanchi stupi**
C. Humayun tomb D. Shersha's tomb

25. Farid was the original name of

- A. Sher Shah** B. Ibrahim Lodi C. Sikander Lodi D. Ala-ud-din

26. Pick out the correct reasons:

Oil mixed with petrol for two wheelers due to the following reason(s):

1. It lubricates the engine parts.
2. It removes heat inside two engines.
3. It allows for the deposit of carbon on the spark plug.

- A. (1), (2) and (3) **B. (1) and (2) only**
C. (2) and (3) only D. (1) and (3) only

27. "Operation Ice Bridge" is associated with

- A. ISS B. ISRO **C. NASA** D. ESA

28. Identify the organisation inaugurated on October 2017 at New Delhi by Prime Minister of India.

- A. All India Institute of Unani
B. All India Institute of Siddha
C. All India Institute of Ayurveda
D. All India Institute of Naturapathy

29. Match the following:

- | | Deficiency diseases |
|---------------------|-----------------------|
| (a) A | 1. Pellagra |
| (b) B ₁ | 2. Nictalopia |
| (c) B ₆ | 3. Pernecious Anaemia |
| (d) B ₁₂ | 4. Beri Beri |

	(a)	(b)	(c)	(d)
A.	2	3	1	4
B.	1	4	2	3
C.	4	1	3	2
D.	2	4	1	3

30. Find the correct relationship between G.C.D. and L.C.M.

- | | | | |
|-------------------------|------------------------|--------|-------|
| I. $G.C.D = L.C.M$ | II. $G.C.D \leq L.C.M$ | | |
| III. $L.C.M \leq G.C.D$ | IV. $LCM > G.C.D$ | | |
| A. I | B. II | C. III | D. IV |

31. If p, q, r, s, t are in A.P, then the value of $p-4q+6r-4s+t$ is

- A. 1 B. 2 C. 3 D. 0

32. Vak Pathar wrote

- | | |
|-----------------------|----------------------------|
| A. Pancha Sidhanthiga | B. Astangasamgraham |
| C. Girudharshuniam | D. Amarakosam |

33. Guerilla warfare means

- | | |
|-----------------------------|----------------------|
| A. Regular warfare | B. Practised warfare |
| C. Irregular warfare | D. Mixed warfare |

34. Which commission sets up international food standard?

- A. Codex Alimentations Commission**
 B. Food and Agricultural Commission
 C. World Health Commission
 D. I.S.I.

35. Supply is constant in

- | | |
|-----------------|-----------------------------|
| A. Short period | B. Very short period |
| C. Long period | D. Very long period |

36. The classical economists believed in _____ policy.

- A. Free trade** B. Industrial C. Export and Import D. Commerce

37. Match the correct answer :

- | | |
|-----------------------|-----------------------|
| a. Saradha Act | 1. 1992 |
| b. Equal Pay Act | 2. 1976 |
| c. Block Board Act | 3. Tmt. Indira Gandhi |
| d. 20 Point Programme | 4. 1929 |

	a	b	c	d
A.	4	2	1	3
B.	3	1	2	4
C.	2	1	3	4
D.	3	4	2	1

38. What are the chemicals present in match stick?

- A. Red Phosphorous, Glue, Sulphur
- B. Antimony Sulphide, Sulphur, Potassium Chlorate**
- C. Antimony Sulphide, Red Phosphorous, Glue
- D. Antimony Sulphide, Phosphorous, Sulphur

39. Identify the odd person out of the following.

- A. Trisha Deb
- B. Nital Paul**
- C. Lily Chanu Poonam
- D. Jyothi Surekha Vennam

40. Which Tamil Nadu State Highway among these was not upgraded as National Highway in November 2017?

- A. Tirupur - Odanchatram State Highway
- B. Salem - Tirupathur - Vaniyambadi State Highway
- C. Kodaighat - Kodaikanal State Highway
- D. Chennai - Ennore State Highway**

41. Where was the Fourth World Tamil's Economic Conference held?

- A. Coimbatore
- B. Kualalumpur
- C. Singapore
- D. Durban**

42. If the product of four consecutive terms in G.P. is 625. Find the first term.

- A. 15
- B. 25
- C. 5**
- D. 35

43. Gain or loss percent is always calculated on
A. cost price B. selling price C. gain D. loss
44. A student goes to his school from his house at a speed 3 km / hr and returns at a speed of 2 km/hr. If he takes 5 hours in going and coming the distance between his house and school is
 A. 5 km B. 5.5 km **C. 6 km** D. 6.5 km
45. If $\frac{a}{3} = \frac{b}{4} = \frac{c}{7}$ then $\frac{a+b+c}{c}$ is
 A. 7 **B. 2** C. $\frac{1}{2}$ D. $\frac{1}{7}$
46. Which is biggest ratio?
 2 : 3, 3 : 5, 4 : 7, 5 : 8
 A. 3 : 5 B. 4 : 7 C. 5 : 8 **D. 2 : 3**
47. _____ is the first Indian City to get its own logo.
 A. Pune **B. Bengaluru** C. Chennai D. Delhi
48. World Forest Day is celebrated on
 A. March 8 **B. March 21** C. March 22 D. March 23
49. Entrepreneurship Development Programme (EDP) is associated with
 A. Eradication of Illiteracy
 B. To make and prove women's potential
 C. To bring out the talents of women
 D. Eradication of poverty
(Probably C or D)
50. Match the following :
- | | |
|---|---------|
| a. Jawahar Gram Samridhi Yojana | 1. 1993 |
| b. National Social Assistance Programme | 2. 1977 |
| c. Employment Assurance Scheme | 3. 1995 |
| d. Integrated Rural Development Programme | 4. 1999 |

	a	b	c	d
A.	3	2	1	4
B.	4	3	1	2
C.	4	2	1	3
D.	3	1	2	4

51. The founder of Scientific Socialism

- A. Alfred Marshall **B. Karl Marx** C. J.A. Schumpeter D. J.M. Keynes

52. Match the following :

- | | |
|-------------|----------------------------------|
| a. Osmium | 1. Best conductor of electricity |
| b. Lithium | 2. Heaviest metal |
| c. Tungsten | 3. Lightest metal |
| d. Silver | 4. Highest melting point -3300°C |

	a	b	c	d
A.	1	2	3	4
B.	2	1	4	3
C.	2	3	4	1
D.	3	4	1	2

53. Match the title winners with their championship of 2017?

- | | |
|---------------------------------|---|
| a. Ms. Saikhom Mirabai Chanu | 1. World Junior (V 20) Chess Championship |
| b. Ms. Mary Kom | 2. World Weight Lifting Championship |
| c. Mr. Gopi Thonakal | 3. Asian Women's Boxing Championship |
| d. Master Aravindh Chithambaram | 4. Asian Marathon Championship |

	a	b	c	d
A.	3	4	2	1
B.	2	3	4	1
C.	2	3	1	4
D.	3	2	1	4

54. Which of the following pairs are incorrect?

- I. Chlorofluorocarbons - Refrigerators
 - II. Methane - Ploughing of fields
 - III. Nitrous Oxide - Enteric fermentation in cows
 - IV. Carbon Di Oxide - Burning of fossil fuels
- A. I and II **B. II and III** C. III and IV D. I and IV

55. The G.C.D. and L.C.M. of 90, 150, 225 is

- A. **15, 450** B. 450, 15 C. 90, 225 D. 225, 150

56. If $y - \frac{1}{y} = 6$ find the value of $y^3 - \frac{1}{y^3}$

- A. 216 B. 222 **C. 234** D. 228

57. Which of the following statement is false in a Parallelogram?

- A. The opposite sides are parallel
- B. The opposite angles and sides are equal
- C. The diagonals are equal**
- D. The diagonals bisect each other

58. Match the following :

- | | |
|-------------------------|----------------|
| a. Governor | 1. Article 171 |
| b. Chief Minister | 2. Article 170 |
| c. Legislative Council | 3. Article 153 |
| d. Legislative Assembly | 4. Article 163 |

- | | | | |
|-------------|----------|----------|----------|
| a | b | c | d |
| A. 3 | 2 | 4 | 1 |
| B. 3 | 4 | 1 | 2 |
| C. 1 | 4 | 3 | 2 |
| D. 2 | 3 | 1 | 4 |

59. In Tamil Nadu which year TNEB was established on the basis of EB Act of 1948?

- A. **1957 July 1** B. 1957 August 1
C. 1957 September 1 D. 1957 October 1

60. Which monument depicted the similarity between Prakoy Literature and Dravida Literature?

- A. Bengali B. Lisiar C. Caspiar D. Telugu

(Note : Probably Option B or C)

61. Which of the following devices converts light signals into electrical (or) electronic signals?

1. Digital camera 2. Fax machine 3. Optical transmitter

- A. (1) and (2) only B. (2) and (3) only
C. (1) and (3) only **D. (1), (2) and (3)**

62. A man sitting in the revolving chair with stretched hands, suddenly bend his hands, the angular velocity

- A. decreases **B. increases** C. zero D. constant

63. Mention the floriculture centre started recently under the Indo Israel Joint Agreement on agricultural project.

- A. Thovalai, Kanyakumari District **B. Thally, Krishnagiri District**
C. Anna Nagar, Chennai D. Connoor, Nilgiri District

64. The Planning Commission in India is now known as

- A. Planning Council **B. NITI Aayog**
C. NITI Sanjog D. Bharatiya Aayog Mandal

65. If are in G.P., then form

- A. an A.P. **B. a G.P.** C. a constant sequence D. Neither A.P. nor a G.P.

66. The sum of three numbers is 264 if the first number be twice the second and third number be one third of the first, then the second number is

- A. 48 **B. 72** C. 54 D. 64

67. Identify the defence equipment which was originally decommissioned on December 17, 2017 by the Indian Air Force.

- A. P - 8 ILR Maritime Reconnaissance Anti Submarine Warfare Aircraft
- B. Mi - 8 Attack and Utility Helicopter**
- C. P - 3 Orion Anti Submarine Warfare Aircraft
- D. Mi - V5 Medium Lift Reconnaissance Aircraft

68. Identify the Playwright who published the work "Dark horse and other plays" in October 2017?

- A. Gowri Ramnarayan**
- B. Gowri Lankesh
- C. Arun Kolatkar
- D. Mahesh Dattani

69. In which Article make provision for the appointment of a law officer, the Attorney General by President of India?

- A. Article 66
- B. Article 67
- C. Article 76**
- D. Article 96

70. The Government of India introduced the Rights to Education on

- A. 15th August 1947
- B. 26th January 1950
- C. 1st April 2010**
- D. 2nd October 2012

71. When was the Legal Services Authority Act (Lok Adalat) passed?

- A. 1985
- B. 1987**
- C. 1986
- D. 1988

72. Match the following :

- | | |
|-------------------|-----------|
| a. Assam | 1. Podu |
| b. Andhra Pradesh | 2. Mashan |
| c. Madhya Pradesh | 3. Ponam |
| d. Kerala | 4. Jhum |

- | | | | |
|------|---|---|---|
| a | b | c | d |
| A. 3 | 1 | 2 | 4 |
| B. 2 | 3 | 4 | 1 |
| C. 1 | 2 | 3 | 4 |
| D. 4 | 3 | 2 | 1 |

(Note : Options are not matched with question)

73. New Agricultural Price Policy was announced in the year

- A. 1984 B. 1976 C. 1996 **D. 1986**

74. The birth of economics of education was announced by

- A. Marshall B. Karl Marx **C. Schultz** D. Keynes

75. National Integration Day celebrated in

- A. November 19** B. October 20 C. June 10 D. August 12

76. Match List I with List II correctly.

List I				List II			
(Solution)				(pH value)			
a.	Blood			1.	6.5		
b.	Urine			2.	7.3 – 7.5		
c.	Vinegar			3.	5.5 – 7.5		
d.	Milk			4.	2.4 – 3.4		
	a	b	c	d			
A.	2	3	4	1			
B.	2	4	1	3			
C.	4	2	3	1			
D.	3	1	4	2			

77. The writer of the Novel “Dukkam Sukkam” who has been chosen for the Vyas Samman 2017 is Mr/Mrs

- A. Surindar Varma B. Sunita Jain
C. Mamta Kalia D. Kamal Kishore Goyenka

78. The recommendations of 15th Finance Commission will be effect from which date?

- A. January 1, 2018 B. April 1, 2018
C. April 1, 2020 D. January 1, 2020

79. The respiratory quotient of glucose in anaerobic respiration is

- A. One B. Four **C. Infinity** D. Less than one

80. The value of e^0 is

- A. e **B. 1** C. 0 D. ∞

81. How many solutions have a linear equation in one variable?

- A. Three solutions **B. Unique solution**
C. Two solutions D. No solution

82. Reciprocal of 0 is _____.

- A. 0 B. 1 C. ∞ **D. No reciprocal**

83. Which one of the following statements is false?

- A. Among the common divisors of given numbers the greatest divisor is the G.C.D.
B. If the G.C.D. of any two numbers is 1 they are said to be prime numbers
C. Among the common multiples of given numbers, the least is the L.C.M.
D. The product of any two numbers is equal to the product of their G.C.D. and L.C.M.

84. Match the following and choose the correct answer :

Local winds

- a. Chinook
b. Fohn
c. Mistral
d. Norte

Location

1. Gulf of Mexico
2. USA
3. Northern Italy
4. Alps region

- | | | | |
|-------------|----------|----------|----------|
| a | b | c | d |
| A. 2 | 3 | 4 | 1 |
| B. 4 | 3 | 2 | 1 |
| C. 1 | 4 | 2 | 3 |
| D. 4 | 2 | 1 | 3 |

90. Choose the correct :

1. Amnion provides a fluid medium for the embryo.
2. The Chorion and Allantois fuse to form placenta.
3. Yolk sac provides a fluid medium for embryo.

A. 1 and 2 are wrong **B. 1 and 2 are right**
C. 2 and 3 are right D. 1 and 3 are right

91. If $1^2 + 2^2 + 3^2 + \dots + 10^2 = 385$ then $2^2 + 4^2 + 6^2 + \dots + 20^2$ is

A. 770 B. 1150 **C. 1540** D. 385×385

92. In the ratio $x\%$ of y to $y\%$ of x , its fraction value is equal to

A. $\frac{1}{xy}$ B. xy C. $\frac{x}{y}$ **D. 1**

93. Arun is now half as old as his father. Twelve years ago the father's age was three times as old as Arun. Now the present age of his father's age is

A. 24 years B. 36 years **C. 48 years** D. 50 years

94. Find out the wrong rules of the national flag.

- A. The national flag should be raised and lowered carefully
- B. We must lower it before sun set
- C. No other flag should be placed higher than it nor should any flag be placed to its left**
- D. We must stand in attention when the flag is hoisted

95. Article 41 of the Constitution of India guarantees

A. Right to work B. Right to property
C. Right to live D. Right Against exploitation

96. Find the name of the ruler who gave Pondicherry to French.

A. Fahlul Khan Lodi B. Ibrahim Lodi **C. Sherkhan Lodi** D. Iltutmish

97. Shivaji got himself coroneted at

A. Torna **B. Raigarh** C. Kalyan D. Purandhar

98. The construction of Qutb Minar was started by

- A. Iltutmish B. Aram Shah **C. Qutb ud din Aibek** D. Firoz Shah

99. In which one describes the social conditions of the Sangam Tamils?

- A. Ettuthogai B. Pathupattu
C. Porulathikaram in Tolkappiam D. Silapadhikaram

100. Match List I with List II and select the correct answer using the code given below the List.

	List I				List II			
a.	Amuktamalyada				1.	Gulbarga		
b.	Juma Masjid				2.	Bijapur		
c.	Golgumbaz				3.	Sanskrit		
d.	Jambavathi Kalyanam				4.	Telugu		
	a	b	c	d				
A.	1	3	2	4				
B.	3	2	4	1				
C.	4	1	2	3				
D.	2	4	3	1				