	जब तक आपको य	पह परीक्षण पुस्तिका खोलने को न कहा	जाए तब तक न खोलें
टी	t. बी. सी. : JNUP-B-GK		परीक्षण पुस्तिका अनुक्रम
क्र	^{म संख्या} 1162392	परीक्षण पुस्तिका	
		सामान्य ज्ञान	
स	मय : दो घण्टे	•	पूर्णांक : 100
		अनुदेश	
1.	परीक्षा प्रारम्भ होने के तुरन्त बाद, अ फटा या छूटा हुआ पृष्ठ अथवा प्रश्न	आप इस परीक्षण पुस्तिका की पड़ताल iश, आदि न हो । यदि ऐसा है, तो इसे	अवश्य कर लें कि इसमें कोई बिना छपा, सही परीक्षण पुस्तिका से बदल लें ।
2.	कृपया ध्यान रखें कि OMR उत्तर-प D को, ध्यान से एवं बिना किसी किसी भी प्रकार की चूक/विसंगति	त्रिक में, उचित स्थान पर, रोल नम्बर औ चूक या विसंगति के भरने और कूटबद्ध की स्थिति में उत्तर-पत्रक निरस्त कर दिया	र परीक्षण पुस्तिका अनुक्रम A, B, C या करने की जिम्मेदारी उम्मीदवार की है। जाएगा।
3.	इस परीक्षण पुस्तिका पर साथ में दिए ग अनुक्रमांक लिखना है । परीक्षण पुस्तिब	ाए कोष्ठक में आपको अपना का पर <i>और कुछ न</i> िलिखें ।	0809944
4.	इस परीक्षण पुस्तिका में 120 प्रश्नांश प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं । यदि आपको ऐसा लगे कि एक से प्रत्येक प्रश्नांश के लिए केवल एक ही	(प्रश्न) दिए गए हैं । प्रत्येक प्रश्नांश हि र हैं । इनमें से एक प्रत्युत्तर को चुन लें, जि । अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर ! प्रत्युत्तर चुनना है ।	दी और अंग्रेज़ी दोनों में छपा है । प्रत्येक से आप उत्तर-पत्रक पर अंकित करना चाहते को अंकित करें जो आपको सर्वोत्तम लगे ।
5.	आपको अपने सभी प्रत्युत्तर अलग से वि	देए गए उत्तर-पत्रक पर <i>ही</i> अंकित करने हैं	। उत्तर-पत्रक में दिए गए निर्देश देखें ।
6.	सभी प्रश्नांशों के अंक समान हैं ।		
7.	इससे पहले कि आप परीक्षण पुस्तिका प्रमाण-पत्र के साथ प्रेषित अनुदेशों के 3	क विभिन्न प्रश्नाशा के प्रत्युत्तर उत्तर-पत्रक भनुसार कुछ विवरण उत्तर-पत्रक में देने हैं ।	पर अंकित करना शुरू करे, आपको प्रवेश
8.	आप अपने सभी प्रत्युत्तरों को उत्तर-पत्र दें । आपको अपने साथ परीक्षण पुस्तिव	क में भरने के बाद तथा परीक्षा के समापन हा ले जाने की अनुमति है ।	। पर <i>केवल उत्तर-पत्रक</i> अधीक्षक को सौंप
9.	कच्चे काम के लिए पत्रक परीक्षण पुस्ति	का के अंत में संलग्न हैं ।	۸.
10.	ग़लत उत्तरों के लिए दंड :		
	वस्तुनिष्ठ प्रश्न-पत्रों में उम्मीदवार द्वार (i) प्रत्येक प्रश्न के लिए चार वैकल्पिव नियत किए गए अंकों का एक-तिह	n दिए गए ग़लत उत्तरों के लिए दंड दिया क उत्तर हैं । उम्मीदवार द्वारा प्रत्येक प्रश्न के वि कई दंड के रूप में काटा जाएगा ।	जाएगा । लेए दिए गए एक ग़लत उत्तर के लिए प्रश्न हेतु

- यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे ग़लत उत्तर माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही, उसी तरह का दंड दिया जाएगा । यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए (ii)
- (iii) कोई दंड नहीं दिया जाएगा ।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

- 1. Which of the following statements about the National Centre for Good Governance (NCGG) are correct ?
 - 1. NCGG was set up by the Sardar Vallabhbhai Patel National Police Academy.
 - 2. The National Institute of Administrative Research (NIAR) has been rechristened and subsumed into NCGG.
 - 3. NCGG is an apex-level autonomous body under the Ministry of Home Affairs.
 - 4. The Chairperson of the Governing Body of the NCGG is the Cabinet Secretary to the Government of India.

- (a) 1, 2 and 4
- (b) 2 and 4 only
- (c) 1 and 3 only
- (d) 3 and 4 only

2. Match List I with List II and select the correct answer using the code given below the Lists :

	List I		List II
	(International Yoga Day)		(Theme)
A.	6 th Edition	1.	Yoga for well-being
B.	7 th Edition	2.	Yoga for health – Yoga at home

- C. 8th Edition 3. Yoga for Vasudhaiva Kutumbakam D. 9th Edition 4. Yoga for Humanity

Code:

Α	В	С	D
2	4	1	3
2	1	4	3
3	1	4	2
3	4	1	2
	A 2 2 3 3	A B 2 4 2 1 3 1 3 4	A B C 2 4 1 2 1 4 3 1 4 3 4 1

- The joint multinational maritime exercise named IBSAMAR is conducted by the Navies of which of the following countries ?
- (a) India, Bangladesh, Sri Lanka and Maldives
- (b) India, Bangladesh and South Africa
- () India, Bangladesh, Sri Lanka and Mauritius
- (d) India, Brazil and South Africa
- In which one of the following cities is the Heliopolis Commonwealth War Grave Cemetery located ?
 - (a) Marseille
 - (b) Washington D.C.
 - (c) Cairo

4.

- (d) Athens
- 5. Under which one of the following rivers has India's first underwater metro rail tunnel been constructed ?
 - (a) Yamuna
 - (b) Ganga
 - Hooghly
 - (d) Gomti
- 6. Which among the following set of national teams participated in the South Asian Football Federation Championship 2023?

(a) Sri Lanka, India, Bangladesh

- Lebanon, Kuwait, Pakistan
- (c) India, Pakistan, Myanmar
- Mepal, Sri Lanka, Bhutan
- 7. Which butterfly species was recently named the official butterfly of Jammu and Kashmir ?
 - (a) Noble's Helen
 - Kaisar-i-Hind
 - (c) Blue Duke
 - (d) Blue Pansy

(3–D)



- Which company operated the ill-fated Titan 11. 8. submersible which recently imploded killing all five passengers while on a dive to visit the Titanic shipwreck under the waters of the North Atlantic?
 - **Odyssey Marine Exploration** (a)
 - (b) M.A.R.E. (Marine Adventure for **Research and Education**)
 - Let **OceanGate Expeditions**
 - (d) Seafarer Exploration Corporation
 - Which among the following is India's longest road tunnel?
 - Atal Tunnel
 - (b) Kuthiran Tunnel
 - (c) Dr. Syama Prasad Mookerjee Tunnel
 - (d) **Banihal Qazigund Road Tunnel**
- Match List I with List II and select the correct 10. answer using the code given below the Lists :
 - List I List II (Padma (Category) Vibhushan / Padma Bhushan Awardee, 2023)
 - **Dilip Mahalanabis** Literature & A. 1. (posthumous) Education Public

2.

3.

4.

Affairs Social Work

Medicine

- Sudha Murthy Β.
- C. S.M. Krishna
- D. S.L. Bhyrappa

Code:

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

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Match List I with List II and select the correct answer using the code given below the Lists :

	List I (Festivals of North East India)		List II (State)
A.	Hornbill Festival	1.	Meghalaya
B.	Chapchar Kut	2.	Sikkim
C.	Nongkrem Dance Festival	3.	Nagaland
D.	Saga Dawa	4.	Mizoram
			,

Code:

	Α	В	С	D
(4)	2	4.	1	3
(b)	3	1	4	2
(c)	3	4	1	2
(4)	2	1	4	3

- 12. From which one of the following countries has India procured the S-400 Triumf air defence missile system?
 - (a) United Kingdom
 - (b) U.S.A.
 - (c) France
 - Russia
- Abhinav Bindra is the winner of the first ever 13. individual Olympic gold medal for India. He won gold in which shooting event and in which Olympic Games ?
 - A 10 meter air pistol, London
 - 10 meter air rifle, London (b)
 - 10 meter air rifle, Beijing (0)
 - 10 meter air pistol, Beijing (\mathbf{H})

(5 - D)

14. Cheetahs were recently re-introduced to India from Africa. From which language is the name 'Cheetah' derived ?

- (a) Swahili
- (b) Afrikaans
- (c) Somali
- (d) Sanskrit
- 15. A new species of pit-viper was discovered in 2019 and named after the State in which it was found. Identify the State from among the following :
 - (a) Kerala
 - (b) Arunachal Pradesh
 - (c) Andaman and Nicobar Islands
 - (d) Assam
- 16. Who among the following set of players from India have either won or secured the runner-up position in the All England Badminton Tournament ?
 - Prakash Padukone, P.V. Sindhu, Parupalli Kashyap
 - Pullela Gopichand, Saina Nehwal, Lakshya Sen
 - Prakash Padukone, Pullela Gopichand, Srikanth Kidambi
 - (d) Lakshya Sen, Saina Nehwal, P.V. Sindhu
- 17. Who among the following leaders recently won the election to the office of the President of Turkey ?

(a) Recep Tayyip Erdoğan

- (b) Kemal Kiliçdaroğlu
- (c) Ahmet Necdet Sezer
- (d) Abdullah Gül

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- Georgi Gospodinov Georgiev won the International Booker Prize, 2023 for the darkly comic novel by the name :
 - (a) The Promise
 - (b) Shuggie Bain
- (c) Time Shelter
 - (d) Girl, Woman, Other
- The Grand Order of the Chain of the Yellow Star is the highest civilian honour of which among the following countries ?
 - (a) Fiji

19.

20.

(7 - D)

- (b) Papua New Guinea
- (c) Egypt
- (d) Suriname
- Which one among the following correctly represents the theme on which the interiors of the new Parliament Building is based ?

	Lok Sabha	Rajya Sabha
(a)	Lotus	Banyan
(b)	Peacock	Lotus
(c)	Peacock	Banyan
(d)	Lotus	Peacock

- myopia.
- 21. A person can see near objects clearly through his eyes but *cannot* see distant objects clearly. The possible reason(s) for this defect could be :
 - 1. Excessive curvature of the eye lens.
 - 2. The eye-ball has become too small.
 - 3. The focal length of the eye lens is too large.
 - 4. Elongation of the eye-ball.

- (a) 1 only
- (b) 2 and 4 only
- (c) 1 and 4 only
- (d) 1 and 3 only
- 22. Consider a journey by a car represented by the graph given below in three parts A, B and C. The speed of the car in these parts is v_a, v_b and v_c, respectively :



Which one of the following is correct in this case ?

(a) $v_a < v_b < v_c$ (b) $v_b > v_a > v_c$ (c) $v_a = v_b = v_c$ (d) $v_a > v_b$; $v_a > v_c$

JNUP-B-GKL

A concave mirror of radius of curvature 50 cm is used to form an image of an object kept at a distance of 25 cm from the mirror on its principal axis. What will be the position of the image from the mirror ?

At infinity

- (b) At 50 cm
 (c) At 25 cm
- (d) At 75 cm

- If the Moon is brought closer to the Earth such that its distance from the Earth becomes half of the original distance, then the gravitational force of attraction between the Earth and the Moon would :
 - (a) reduce to half of its original value.
 - (b) increase to two times of its original value.
 - (c) remain the same as the original value.

(d) increase to four times of its original value.

Sonic boom is produced when a source of sound travels at a speed :

- (a) greater than the speed of sound.
- greater than the speed of light.
- (c) lesser than the speed of sound.
- (d) equal to the speed of sound.

Which one among the following are the correct symbols for the elements gold, tin and lead, respectively?

- (a) Ga, Sb, Pb
- (b) At, Sn, Le
- Au, Sn, Pb
- (d) Au, Sb, Pb

(9–D)

27. How much percentage of carbon dioxide is 31. present in the atmosphere of Venus and Mars?

- (a) 45 47%
- (b) 52 55%
- (c) 74 77%
- (d) 95 97%
- 28. Which among the following methods is used to separate the constituents present in a compound?
 - (a) Electrochemical method
 - () Heating method
 - (Fractional distillation
 - (d) Decomposition followed by ion exchange
- 29. During white-washing of walls, slaked lime reacts slowly with carbon dioxide in air to form a thin layer of calcium carbonate on the walls. Which of the following reactions represents this correctly ?

(a)
$$CaO(s) + CO_2(g) \rightarrow CaCO_3(s)$$

(b)
$$\operatorname{CaO}(l) + \operatorname{CO}_2(g) \rightarrow \operatorname{CaCO}_3(s)$$

(c) $\operatorname{Ca(OH)}_{2}(l) + \operatorname{CO}_{2}(l) \rightarrow \operatorname{CaCO}_{3}(s) + \operatorname{H}_{2}O(l)$

$$\begin{array}{c} \textbf{Ca(OH)}_2(\text{aq}) + \text{CO}_2(\text{g}) \rightarrow \text{CaCO}_3(\text{s}) + \\ H_2O(l) \end{array}$$

30. Which one of the following equations is the balanced chemical equation for the given reaction?

$$(3Fe + 4H_2O \rightarrow Fe_3O_4 + 4H_2)$$
(a) $Fe + 4H_2O \rightarrow Fe_3O_4 + H_2$
(b) $3Fe + H_2O \rightarrow Fe_3O_4 + 2H_2$
(c) $3Fe + 4H_2O \rightarrow Fe_3O_4 + 4H_2$
(d) $3Fe + 4H_2O \rightarrow Fe_3O_4 + H_2$

JNUP-B-GKL

The term Phyllotaxy refers to the pattern of :

- (a) arrangement of leaves.
- (b) branching in stem.
- (c) flower formation on branch.
- (d) arrangement of flowers.
- 32. Chromosomes are composed of DNA and :
 - (a) lipids
 - (b) vitamins
 - (c) proteins
 - (d) carbohydrates
 - Bacteria have an undefined nuclear region which lacks a nuclear membrane and contains only DNA without proteins. Such a region is called :
 - (a) Nucleosome
 - (b) Nucleus
 - (c) Nucleoprotein
 - Ver Nucleoid

34.

In the following simplified diagram of a plant cell, five parts/organelles are marked from 1 to 5 :



Which one of the following correctly represents the above parts/organelles ?

- (a) 1 cell membrane; 2 cell wall;
 - 3 vacuole; 4 endoplasmic reticulum; 5 – nucleus
- (b) 1 cell wall; 2 cell membrane;
 - 3 endoplasmic reticulum; 4 vacuole; 5 – nucleus
- 1 cell wall; 2 cell membrane;
 3 endoplasmic reticulum; 4 nucleus;
 5 vacuole
 - (d) 1 cell wall; 2 cell membrane;
 - 3 vacuole; 4 endoplasmic reticulum; 5 – nucleus

35. Which one of the following is the language of **39.** the famous political treatise *Amuktmalyada*?

- (a) Sanskrit
- (b) Tamil
- (c) Kannada
- (d) Telugu
- **36.** Which one of the following statements about the Shvetambara Sect of Jainism is *not* correct?
 - (a) It refers to monks, who wear white clothes.
 - (b) It refers to monks, who migrated to the south of Vindhyas in 4th century BCE.
 - (c) They recognized the existence of canonical texts including the 12 Angas.
 - (d) They believed that women can also attain salvation.

37. Where is the Vikramkhol Cave located ?

- (a) Odisha
- (b) Bihar
- (c) Telangana
- (d) West Bengal
- **38.** Consider the following statements regarding the 'Levallois Technique':
 - 1. It refers to making perforated Harappa pottery.
 - 2. It refers to making prehistoric flake tools.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

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Which of the following statements is/are correct?

- 1. The Bakshali Manuscript written in the Gatha language (a refined version of old Prakrit) using the Sharada script deals with topics such as fractions, square roots, arithmetic and geometric progressions.
- In the field of geometry, Aryabhatta described the various properties of a circle giving a very accurate value for pi (π) correct to four decimal places at 3 1416.
- 3. Sharangadhara Samhita is an important text on political system of ancient India.

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1 and 3 only
- (c) 1 and 2 only
- (d) 2 only
- 40. Which one of the following is *not* correct about the Indian Independence Act, 1947 ?
 - (a) The Bill for the Indian Independence Act was introduced in Parliament on July 4 and received the Royal Assent on July 18, 1947.
 - Act of 1947 laid down the basic framework of the Indian Constitution.
 - (c) The Act provided for the establishment of two independent Dominions to be known as India and Pakistan.
 - (d) The Act empowered the Constituent Assembly of each Dominion to have unlimited power to frame and adopt any constitution.

(13 – D)

41. Which one of the following set of trees does does not belong to Temperate Floral Zone of Himalaya?

- (a) Cashewnut and Magnolia
- (b) Oak and Maple
- (c) Rhododendrons
- (d) Birch and Laurels
- **42.** Which one of the following statements about plantation agriculture is *not* correct ?
 - (a) Plantation farm estates are scientifically managed.
 - (b) Plantation farming requires heavy capital outlay.
 - (c) Plantation farm lands have mainly foreign ownership and local labour.
 - (d) Plantation farmers rear the animals for sale.
- **43.** Match List I with List II and select the correct answer using the code given below the Lists :
 - List I List II (Name of Shifting (Country) Cultivation)

1.

Sri Lanka

- B. Chena 2. Thailand
- C. Masole 3. Brazil
- D. Tamarai 4. Zaire

Code:

A.

Roca

	Α	В	C	D
(a)	2	4	1	3
(b)	2	1	4	3
(c)	3	4	1	2
(d)	3	1	4	2

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Consider the following statements with reference to Paleolithic tools :

- 1. Isampur was a well-known center of stone tool manufacture located in Gulbarga district of Karnataka and was situated along a small seasonal stream known as Kamta Halla.
- 2. A Paleolithic blade is a flake tool, the length of which is more than twice its width.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- **45.** Consider the following statements about science in medieval South India :
 - 1. The Katapayadi system of numerals, which was invented by Vararuchi of Kerala, the author of Chandra Vakyas, was used for calculating the position of Moon on any day of the year.
 - 2. Achyuta Pisharati (1550 1621) wrote Uparagakriyakrama, a text on eclipses.
 - 3. Ravi Varma of Mahodayapuram set up an observatory and is also said to have inaugurated the Kollam era.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

(15 – D)

- **46.** Which of the following dynasties of South India issued their documents first in Prakrit and later in Sanskrit ?
 - (a) The Cholas of Tamil Nadu
 - (b) The Pandyas of the post-Sangam Age
 - (c) The Pallavas of Tondaimandalam
 - (d) The Gangas of Kalinganagara
- 47. Who was the author of the Gwalior Prashasti of Mihira Bhoja ?
 - (a) Nagabhata
 - (b) Vatsaraja
 - (c) Baladitya
 - (d) Kakkuka
- 48. The Sahajiya Cult, which can be traced back to 10th and 11th centuries, is usually associated with:
 - (a) early Bhakti traditions
 - (b) a kind of early Sufism
 - (c) early Upanishadic philosophy
 - (d) Buddhism
- 49. The landmark Supreme Court judgment in the case Subhash Sharma v. Union of India (1991) refers to which one of the following basic features of the Constitution of India ?
 - (a) Judicial Review
 - (b) Rule of Law
 - (c) Free and fair elections
 - (d) Fundamental Rights

JNUP-B-GKL

Which of the following statements about the Panchayats in India, as per the Constitution of India is/are correct?

- 1. There is a provision for reservation of seats for the Scheduled Castes and Scheduled Tribes.
- 2. Panchayats are not authorised to collect taxes.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- L(e) Both 1 and 2
 - (d) Neither 1 nor 2
- **51.** Which one of the following statements about Mission Indradhanush, launched by the Government of India in 2014, is correct?
 - (a) It relates to provisions for Child Health Screening and Early Intervention Services.
 - (b) It meets the diverse health needs of adolescents.
 - (c) It aims to increase the full immunisation coverage for children.
 - (d) Its objective is to achieve universal access to equitable, affordable, and quality healthcare services.

Which one of the following amendments to the Constitution of India has introduced reservations in education and in public employment for people from the Economically Weaker Sections (EWS) of society ?

- (a) The Constitution (101st Amendment) Act
- The Constitution (102nd Amendment) Act, 2019
 - > The Constitution (122nd Amendment) Act
- The Constitution (103rd Amendment) Act, 20 19

(17 – D)

- **53.** Which among the following Fundamental Rights is *not* suspended when an Emergency is declared ?
 - (a) Protection in respect of conviction for offences
 - (b) Right to constitutional remedies
 - (c) Right to move freely throughout the territory of India
 - (d) Equality before law
- 54. Any question pertaining to the disqualification of a member of the Lok Sabha on the ground of defection is decided by :
 - (a) The President of India
 - The Speaker of the Lok Sabha
 - (c) The Supreme Court of India
 - (d) The concerned Political Party
- 55. Which one of the following statements about Indian Maritime University (IMU) is *not* correct?
 - (a) It was established through an Act of Parliament as a Central University.
 - (b) It was established primarily to support the Indian Navy.
 - (c) It is located in Chennai.
 - (d) It was established to extend the benefits of knowledge and skill for development of individuals and society by associating closely with local, regional and national issues of development.

Which of the following pairs is/are correctly matched?

	Plateau		Continent
1.	Abyssinian	:	Africa
2.	Patagonian	:	Australia
3.	Anatolian	:	Asia
4.	Iberian	:	North America

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 3 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4
- **57.** Which of the following pairs of Isolines and its properties are correctly matched ?
 - 1.Isonif:Snowfall2.Isohel:Sunshine
 - 3. Isohaline : Salinity
 - 4. Isohypse : Cloudiness

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 2, 3 and 4
- (c) 1 and 3 only
- (d) 1, 2 and 4

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- 58. Which of the following is the correct order of clouds in ascending order (lowest to highest) of height from surface ?
 - 1. Cirrocumulus
 - 2. Nimbostratus
 - 3. Cirrus
 - 4. Altostratus

- (a) 1, 2, 4, 3
- (b) 2, 4, 3, 1
- (c) 3, 2, 1, 4
- (d) 2, 4, 1, 3
- **59.** Which of the following pairs of revolution in agriculture sector and its production are correctly matched?
 - 1. Pink revolution : Shrimp production
 - 2. Yellow revolution : Oilseeds production
 - 3. Black revolution : Biodiesel production
 - 4. Golden revolution · Egg production ·

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- 2 and 3 only
- (c) 1 and 3 only
- (d) 2 and 4 only
- 60. Which one among the following statements about National Highways Authority of India (NHAI) is *not* correct ?
 - (a) NHAI collects fees on the National Highway.
 - (b) NHAI conducts training of Highway Engineers at entry level and in-service.

NHAI provides consultancy and construction services in India and abroad.

(d) NHAI regulates and controls the plying of vehicles for its proper management.

As per the Cabinet Resolution of 1st January, 2015, the NITI Aayog consists of :

- 1. Prime Minister of India
- 2. Governing Council comprising of Chief Minister of all the States and Lieutenant Governors of Union Territories
- / 3. Rural Development Minister
- 4. Chief Executive Officer to be appointed by the Prime Minister

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1 and 2 only
- $\overline{(1)}$ 3 and 4 only
- 62. The executive is given an advance grant to meet temporary and running requirements of Government of India in the beginning of the new financial year until the demands are voted by the legislature. This is known as :
 - (a) Vote of Credit
 - (b) Vote on Account
 - (c) Appropriation Bill
 - (d) Advance Account
- **63.** Which of the following is/are United Nations Sustainable Development Goal(s) ?
 - 1. Decent work and economic growth
 - 2. Peace, justice and strong institutions
 - 3. Responsible consumption and production

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1, 2 and 3
- 🖌 2 only
- (d) 1 and 3 only

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64.	Cons	ider the following statements on 'Fog' :	68.	How	v can resources be classified on the basis
	1.	Fog is simply a cloud that forms close to the ground.		of th	eir origin ? Biotic and abiotic
	2.	Radiation fog is associated with radiation cooling of the land at night.		(b) (c) (d)	Renewable and non-renewable Individual and community Potential and reserve
	3.	Advection fog forms when moisture is blown over a cold surface and is chilled by contact.	69	Whie	ch one among the following is the highest ntain in Africa ?
	Whic corre	h of the statements given above are ect?		(a) (b) (c)	Atlas Mountain Mount Kilimanjaro Mount Kenya
	(a)	1 and 2 only	×.	(d)	Mount Elgon
	(b)	2 and 3 only	70.	Whic	ch of the following action(s) by the
	(c)	1 and 3 only		Gove	ernment would lead to contraction of
	(d)	1, 2 and 3	•	mone 1.	ey supply in the economy? Purchase of Treasury Bills by the central bank from public
65.	Whic	h one of the following landforms is/are		2.	Sale of Treasury Bills by the central bank to public
	(0)	Circuo	4	3.	Sale of foreign exchange by the central hank
	(a) (b)	Stack		4.	Purchase of foreign exchange by the central bank
	(c)	Zeugen		Selec	et the correct answer using the code given
	(d)	Stack and Zeugen both		belov (a) (b)	v : 1 and 4 only 1 and 3 only
66	Whic	h one of the following crops is not		(b) (c)	2 and 3 only
00.	cultiv	vated under dryland farming ?		(d)	2 only
	(a)	Jowar	71.	Whic	h of the following are included in the
	(b)	Ragi		defin	ition of Narrow Money ?
	(c)	Sugarcane		1.	Currency with the public
	(d)	Groundnut		2. 3.	'Other' deposits with Reserve Bank of India
67.	Whic	h one of the following forms of settlement		4.	Banker's deposits with Reserve Bank of India
	devel	lops around a lake ?		Selec	t the correct answer using the code given
	(a)	Linear		(a)	1, 2 and 4
	(b)	Cross-shaped		(b)	1 and 2 only
	(c)	Circular		(c)	1, 2 and 3
	(d)	Square		(d)	3 and 4 only
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- 72. Which of the following is/are the effects of devaluation or depreciation of currency ?
 - 1. It leads to increase in imports and decrease in exports.
 - 2. It leads to increase in exports and decrease in imports.
 - 3. It leads to increase in domestic inflation.
 - 4. It leads to decrease in domestic inflation.

- (a) 1 and 3 only
- (b) 1 and 4 only
- (c) 2 and 3 only
- (d) 3 only
- 73. Which one of the following taxes is **not** subsumed under the Goods and Services Tax in India?
 - (a) Customs Duties
 - (b) Central Excise Duties
 - (c) Service Tax
 - (d) Taxes on Petroleum and Petroleum Products
- 74. The following diagram shows a pendulum at different positions. Which one of the following statement is true ?



- (a) The pendulum has minimum potential energy at positions P and T.
- (b) The pendulum has minimum potential energy at positions Q and S.

(c) The pendulum has minimum potential energy at position R.

(d) The pendulum has same potential energy at all positions.

75. In which of the following media is the speed of sound the maximum ?

- (a) Glass
- (b) Stainless steel
 - (c) Water
 - (d) Oxygen
- 76. A charged particle moves through a magnetic field **B** with a velocity **v**. Which one of the following statements is true for the force (**F**) experienced by the particle ?
 - (a) **F** is maximum when **v** and **B** are parallel to each other.
 - (b) **F** is maximum when **v** and **B** are anti-parallel to each other.

 \mathbf{F} is maximum when \mathbf{v} and \mathbf{B} are perpendicular to each other.

- (d) The force **F** is independent of the angle between **v** and **B**.
- 77. Which one of the following is the correct relation between Celsius and Fahrenheit temperature scales ?

(Symbols carry their usual meanings)

(a)
$$T_{F} = \frac{10}{3}T_{C} + 32$$

(b) $T_{F} = \frac{5}{9}T_{C} + 36$
(c) $T_{F} = \frac{9}{5}T_{C} + 36$
 $T_{F} = \frac{9}{5}T_{C} + 36$

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- 78. Which one of the following statements is correct regarding the travel of a light beam from a rare to a dense medium ?
 - (a) A light beam travelling from a rare medium to a dense medium slows down and bends towards the normal.
 - (b) A light beam travelling from a rare medium to a dense medium speeds up and bends towards the normal.
 - (c) A light beam travelling from a rare medium to a dense medium slows down and bends away from the normal.
 - (d) A light beam travelling from a rare medium to a dense medium speeds up and bends away from the normal.
- **79.** In which one of the following cases do both physical and chemical changes take place ?

Burning of candle

- (b) Freezing of water
- (c) Cooking of food
- (d) Rusting of iron
- 80. Which one of the following statements is correct about diamond and graphite ?
 - (a) Diamond and graphite have similar physical and chemical properties.
 - (b) Diamond is hard but graphite is smooth and slippery.
 - (c) Diamond and graphite are both non-conductors of electricity.
 - (d) Both diamond and graphite have similar structures.

Which one among the following State capitals is closest to the Equator ?

- (a) Hyderabad
- (b) Bhubaneswar
- Ver Panaji
- (d) Mumbai
- 82. Which is the only country in the world to officially proclaim the Gross National Happiness (GNH) as the measure of the country's progress?
 - (a) Finland
 - (b) Bhutan
 - (c) Nepal
 - (d) Switzerland
- 83. Consider the following statements about clouds:
 - 1. Two major forms of clouds are stratiform and cumuliform.
 - 2. According to the altitude, clouds are classified as high clouds, middle clouds and low clouds.
 - 3. Stratus, nimbostratus and stratocumulus are types of high clouds.
 - 4. Clouds having nimbo attached to their name produce precipitation.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1, 2 and 4
- (c) 2 and 4 only
- (d) 1, 3 and 4

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- 84. Which one of the following expenditures is 87. subtracted from Fiscal Deficit to arrive at Primary Deficit ?
 - (a) Defence expenditure
 - (b) Expenditure on subsidies
 - (c) Interest payments
 - (d) Pension
- 85. The Wholesale Price Inflation has increased in India during 2021 – 2022 due to which of the following factors ?
 - 1. Sharp increase in international prices of crude oil
 - 2. Decrease in economic activity post-Covid
 - 3. Disruption of global supply chain
 - 4. High freight cost

- (a) 2 and 3 only
- (b) 1, 3 and 4
- (c) 1 and 2 only
- (d) 1 and 4 only
- 86. What would be the impact on the economy if people start holding more currency in hand and less in deposits ?
 - (a) Money demand will increase
 - (b) Money multiplier will decrease
 - (c) Money multiplier will increase
 - (d) Money demand will decrease

SDG India Index, developed by NITI Aayog, includes 17 SDGs for each State. Which one of the following is **not** included in that index ?

- (a) Zero hunger
- (b) Reduced unemployment
- (c) Life below water
- (d) Responsible consumption and production
- **88.** Other things remaining constant, the market supply for a good increases if :
 - 1.. its price increases.
 - 2. price of its factors of production decreases.
 - 3. price of other goods decreases.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1 and 3 only

 $\sqrt{2}$ and 3 only

- (d) 1, 2 and 3
- **89.** Consider the following statements regarding poverty in India :
 - 1. While determining poverty line in India, a minimum level of food requirement, clothing, footwear, fuel and light, educational and medical requirements, etc. are determined for subsistence.
 - 2. The, accepted average calorie requirement in India is 2400 calories per person per day in rural areas and 2100 calories per person per day in urban areas.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

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- **90.** Which of the following statements is/are **93.** correct?
 - 1. Shivaji sent an ambassador to Bombay to negotiate an agreement with the English.
 - 2. His chief motive was to secure English aid against the Siddis of Danda-Rajpuri.
 - 3. He wanted a supply of grenades, mortars and other ammunition.

- (a) 1 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3
- 91. The famous Hathigumpha inscription of Kharavela mentions that in the eleventh year of his reign, Kharavela destroyed a confederacy of Tamil States, "Tramiradesa Sanghatam", which had long been a source of danger. How old was this confederacy of Tamil States at that time ?
 - (a) 110 years old
 - (b) 111 years old
 - (c) 112 years old
 - (d) 113 years old
- **92.** Which of the following statements about the Vaishnava saint of Assam, Shankardeva, is/are correct?
 - 1. His teachings are often known as the Bhagavati dharma.
 - 2. He encouraged the establishment of satras or monasteries and namphars or prayer halls for the transmission of spiritual knowledge.
 - 3. His major compositions include the Kirtana-ghosha.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 3 only
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Abdur Razzaq, an ambassador of the ruler of Persia, was sent to Calicut in the fifteenth century. He was greatly impressed by the :

- (a) Fortifications of Calicut
- (b) Climatic conditions of the coastal town
- (c) High quality spices of the place
- (d) Musical traditions of the place

- Which of the following statements about the 'Race to Zero Campaign' is/are correct ?
 - One of the main objectives of the Race to Zero Campaign is to build momentum around the shift to a decarbonized economy.
 - 2. It is related to the theory of Zero-Sum Game.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

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- 95. Which of the following statements about National Action Plan on Climate Change (NAPCC) with reference to India is/are correct ?
 - 1. It emphasises that maintaining a high growth rate is essential for raising the living standards of the vast majority of the people of India and reducing their vulnerability to the impact of climate change.
 - 2. It was released in 2014.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

96. What does India's "Blue growth" refer to?

- (a) Upgradation of Indian Air Force
- (b) Discouraging farmers from using pesticides
- (c) A long-term strategy to support sustainable growth in the marine and maritime sectors



Socio-economic empowerment of India's blue collar workers in the unorganized sector

- 97. Which of the following statements about 'Operation Sadbhavana' in Ladakh is/are correct?
 - 1. Indian Army undertakes welfare activities, such as running of Army Goodwill Schools in remote areas of Ladakh.
 - 2. It aims at building harmonious relationships between religious communities in Ladakh.

Select the correct answer using the code given below :

- La 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2

Which one of the following is *not* a permanent member of the UN Security Council ?

(a) France

(b) China

(e) Japan

- (d) United Kingdom
- **99.** Consider the following statements about some planets in the solar system :

1. Mercury has no atmosphere.

2. Venus has two moons.

- 3. There is no land on Jupiter.
- 4. Rings of Saturn are composed of lumps of ice and dust.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 3 and 4 only
- (c) 1, 2 and 3
- (d) 1, 3 and 4
- harmonious religious 100. Which one of the following passes is not located in Indian Himalayan region ?
 - (a) Zojila

(b) Bolan

- (c) Shipkila
- (d) Lipulekh

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101. Which one among the following substances is 105. Cell wall is absent in which one of the a compound ?

(a) Sugar

- Air (b)
- Milk (c)
- (d) Tea
- 102. What is the total number of naturally occurring elements ?
 - (a) 114
 - VIN 94
 - (c) 86
 - (d) 82
- 103. Which one of the following statements regarding acids is *not* correct?
 - Hydrochloric acid is present in the (a) gastric juice secreted by the stomach.
 - Acetic acid is the main constituent of (b) vinegar.
 - Oxalic acid is found in tamarind paste. (c)

(d) Lemon and orange juices contain citric acid and ascorbic acid respectively.

- 104. Which one of the following is the correct combination of organelles and their functions?
 - Mitochondria Respiration; Chloroplast (a) - Photosynthesis; Ribosome - Protein Synthesis; Rough endoplasmic reticulum - Transport of proteins
 - Mitochondria Respiration; Chloroplast (b) - Photosynthesis; Ribosome - Transport endoplasmic Rough of proteins; reticulum – Protein synthesis
 - Mitochondria Respiration; Chloroplast $\chi^{(c)}$ Protein synthesis; Ribosome Rough endoplasmic Photosynthesis; reticulum – Transport of proteins
 - Photosynthesis; Mitochondria -(d)
 - Chloroplast Respiration; Ribosome -X Protein synthesis; Rough endoplasmic reticulum – Transport of proteins

following organisms?

- (a) Bacteria
- (b)) Diatom
- (b)Mushroom
- (d)Tapeworm
- 106. Water goes up through xylem vessels in tall trees. The process in plants and properties of water that help in upward movement are :
 - **Respiration** and cohesion (a)
 - cohesion (b) Transpiration pull, and adhesion
 - Root pressure, cohesion and adhesion (c)
 - Transpiration and adhesion (d)
- 107. Energy and nutrients flow from one trophic level to another in an ecosystem. Which one of the following statements correctly describes the direction of flow of energy and nutrients in an ecosystem ?
 - Energy flow is cyclic and nutrient flow is (a) unidirectional.
 - (b) Energy flow is unidirectional and nutrient flow is cyclic.
 - Both energy and nutrient flow are (c) unidirectional.
 - Both energy and nutrient flow are cyclic. (d)

108. Which one of the following is a saprophyte ?

- (a) Cuscuta
- (b) Rhizopus
- (c) Spirogyra
- (d) Grass

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L 09.	In ov follow	ules of Angiosperms, which one of the ring is not a haploid cell ?	113.	Whi their	ch one of the following pairs of terms and r meanings is <i>not</i> correctly matched ?	
	(a)	Nucellus		(a)	Nagarakkani : Land owned by the	
	(b)	Synergid		(a)	nagaram	
	(c)	Egg		(b)	Nattar : Male serpent deity	
	(d)	Antipodal		(c)	Yupa : Sacrificial post	
110.	Arrange the following events associated with Shivaji in chronological order :			(d)	Viragal : 'Hero stone' in the Tamil Nadu area	
	1.	Attack on Afzal Khan	114.	Whe	ere is the famous Gupta period Deogarh	
	2.	Capture of Torna		Temple situated ?		
	3.	Attack on Shaista Khan	ал. 	(a)	Uttar Pradesh	
	4.	Annexation of Javli		(b)	Madhya Pradesh	
	Select the correct answer using the code given below :			(c)	Chhattisgarh	
	(a)	2, 4, 1, 3	115.	(d)	Rajasthan	
	(b)	4, 2, 1, 3		Cons	sider the following statements with	
	(c)	1, 2, 3, 4		refer	rence to the Nataraj bronze sculpture of	
	(d)	3, 1, 2, 4		Chola period :		
111.	111. Who among the following is the author of the			1.	Shiva is shown balancing himself on his right leg representing <i>tirobhava</i> .	
	book	book 'The Indian Struggle 1920 – 1942' ?		2.	Shiva is shown raising his left leg in	
	(a)	Vinayak Damodar Savarkar			<i>bhujangatrasita</i> stance, representing kicking away the illusion from the	
	(b)	Subhas Chandra Bose			devotee's mind.	
	(c)	Vallabhbhai Patel	7	3.	The main right hand holds the damaru,	
	Vat	Sarat Chandra Bose			Shiva's favourite musical instrument.	
112.	. Who among the following is not a woman			Whic corre	ch of the statements given above is/are ect ?	
	Nay	Koroikkol Ammoiyor		(a)	1 only	
	(a)	Mangayarkkarasiyar		(b)	2 only	
	(d)	Mangayar Kkarasiyar Andal		(c)	2 and 3 only	
	(C)	Isaignaniyar		(d)	1, 2 and 3	
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116. Which of the following statements about 118. Which of the following concepts are considered **ASEAN** are correct? as pillars of Human Development? 1. The Chairmanship of ASEAN rotates Equity 1. annually based on the alphabetical order Sustainability $\mathbf{2}$. of the English names of Member States. 3. Productivity 2. The Chairmanship is decided by voting 4. Security among the Member States. Select the correct answer using the code given "One Vision, One Identity, One 3. below: Community" is the ASEAN motto. (a) 1 and 2 only 12th August is celebrated as ASEAN 4. 3 and 4 only (b) Day. 1, 2 and 3 only (c) Select the correct answer using the code given 1, 2, 3 and 4 (d) below: (a) 1 and 2 onlyWhich one of the following pairs of events and 119 1 and 3 only years is *not* correctly matched? (b) 3 and 4 only (c) Launch of the first (a) communications satellite : 1962 (d) 1, 2, 3 and 4SUS . Completion of a continuous around the world fibre-optic cable link : 1997 117. Consider the following statements about the Public Distribution System : (c) Creation of the SWIFT system The Public Distribution System is 1. for worldwide electronic operated under the joint responsibility of interbank fund transfer : 1977 Centre and State/Union Territories. Food Corporation of India has assumed (d) Introduction of the 2. the responsibility for procurement, World Wide Web (www) : 1995 storage and transportation of food grains to the State Governments. 120. Identify the type of soil on the basis of given Both Centre and State have the joint characteristics : 3. to identify responsibility eligible 1. They contain a large proportion of beneficiaries. sodium, potassium and magnesium, and Some States also distribute additional thus, they are infertile. 4. items of mass consumption through the $\mathbf{2}$. Their structure ranges from sandy to PDS outlets such as pulses, edible oil, loamy. etc. 3. They are more widespread in western Which of the statements given above are Gujarat, deltas of the eastern coast and correct? in Sunderban areas of West Bengal. (a) 2 and 3 only (a) Peaty soil an 1, 2 and 4 (b) Laterite soil 1 and 2 only (c) (c) Arid soil 3 and 4 only (d) Saline soil (d)

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