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

टी. बी. सी. : JNUP-B-GKL

परीक्षण पुस्तिका अनुक्रम

क्रम संख्या 1162490

परीक्षण पुस्तिका सामान्य ज्ञान



समय : दो घण्टे

पूर्णांक : 100

अनुदेश

- परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हो । यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें ।
- 2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में, उचित स्थान पर, रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को, ध्यान से एवं बिना किसी चूक या विसंगित के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है I किसी भी प्रकार की चूक/विसंगित की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा । 8000 33 56
- 3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर और कुछ न लिखें।

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- 4. इस परीक्षण पुस्तिका में 120 प्रश्नांश (प्रश्न) दिए गए हैं । प्रत्येक प्रश्नांश हिन्दी और अंग्रेज़ी दोनों में छपा है । प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं । इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं । यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे । प्रत्येक प्रश्नांश के लिए केवल एक ही प्रत्युत्तर चुनना है ।
- 5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर *ही* अंकित करने हैं । उत्तर-पत्रक में दिए गए निर्देश देखें ।
- 6. *सभी* प्रश्नांशों के अंक समान हैं।
- 7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
- 8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर *केवल उत्तर-पत्रक* अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमित है।
- 9. कच्चे काम के लिए पत्रक परीक्षण पुस्तिका के अंत में संलग्न हैं।
- 10. ग़लत उत्तरों के लिए दंड:

वस्तुनिष्ठ प्रश्न-पत्रों में उम्मीदवार द्वारा दिए गए ग़लत उत्तरों के लिए दंड दिया जाएगा ।

- (i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं । उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक गलत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का **एक-तिहाई** दंड के रूप में काटा जाएगा ।
- (ii) 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।
- (iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए 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.

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(1-B)

- 1. Which one among the following substances is 5. a compound?
 - (a) Sugar
 - (b) / Air
 - (c) Milk
 - (d) Tea
- 2. What is the total number of naturally occurring elements?
 - (a) 114
 - (b) 94
 - (c) 86
 - (d) 82
- 3. Which one of the following statements regarding acids is **not** correct?
 - (a) Hydrochloric acid is present in the gastric juice secreted by the stomach.
 - (b) Acetic acid is the main constituent of vinegar.
 - (c) / Oxalic acid is found in tamarind paste.
 - (d) Lemon and orange juices contain citric acid and ascorbic acid respectively.
- 4. Which one of the following is the correct combination of organelles and their functions?
 - (a) Mitochondria Respiration; Chloroplast
 Photosynthesis; Ribosome Protein
 Synthesis; Rough endoplasmic reticulum
 Transport of proteins
 - (b) Mitochondria Respiration; Chloroplast
 Photosynthesis; Ribosome Transport
 of proteins; Rough endoplasmic
 reticulum Protein synthesis
 - (c) Mitochondria Respiration; Chloroplast
 Protein synthesis; Ribosome –
 Photosynthesis; Rough endoplasmic
 reticulum Transport of proteins
 - (d) Mitochondria Photosynthesis; Chloroplast – Respiration; Ribosome – Protein synthesis; Rough endoplasmic reticulum – Transport of proteins

- Cell wall is absent in which one of the following organisms?
 - (a) Bacteria
 - (b) Diatom
 - (c) Mushroom
 - (d) Tapeworm
- 6. Water goes up through xylem vessels in tall trees. The process in plants and properties of water that help in upward movement are:
 - (a) Respiration and cohesion \vee
 - (b) Transpiration pull, cohesion and adhesion
 - (c) Root pressure, cohesion and adhesion ⋈
 - (d) Transpiration and adhesion
- 7. 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?
 - (a) Energy flow is cyclic and nutrient flow is unidirectional.
 - (b) Energy flow is unidirectional and nutrient flow is cyclic.
 - (c) Both energy and nutrient flow are unidirectional.
 - (d) Both energy and nutrient flow are cyclic.
- **8.** Which one of the following is a saprophyte?
 - (a) Cuscuta
 - (b) Rhizopus
 - (c) Spirogyra
 - (d) Grass

6	In ovules of Angiosperms, which one of the 13. following is not a haploid cell?	્ર <u>છ</u> ે	Which or their mea	Which one of the following pairs of terms their meanings is not correctly matched?	Which one of the following pairs of terms and their meanings is not correctly matched?
	(a)/ Nucellus		(a) Na	Nagarakkani :	Land owned by the
	(b) Synergid				nagaram
	(c) Egg		(b) Ng	Nattar :	Male serpent deity
	(d) Antipodal		(c) Y ₁	Yupa :	Sacrificial post
			(d) V	Viragal :	'Hero stone' in the
10.	Arrange the following events associated with Shivaji in chronological order:				Tamil Nadu area
	1. Attack on Afzal Khan	14.	Where	is the famous	Where is the famous Gupta period Deogarh
	2. Capture of Torna		Temple	Temple situated $?$	
			(a) I	Uttar Pradesh	
			(b) 1	Madhya Pradesh	
	Select the correct answer using the code given		(c)	Chhattisgarh	
	below:		(q)	Rajasthan	
	(a) 2, 4, 1, 3		\		
	(b) 4, 2, 1, 3	15.		ler the follo	following statements with
	(c) 1, 2, 3, 4		refere	nce to the Nat	reference to the Nataraj bronze scuipture of
	(d) 3, 1, 2, 4	_	Chola	Chola periou .	10. 11.
	î		,	Shiva is shown	Shiva is shown balancing himselt on his $\frac{1}{2}$ shown balancing $\frac{1}{2}$ shown balancing $\frac{1}{2}$
11.		<u>.</u>	c	Shiva is show	Shiva is shown raising his left leg in
	book 'The Indian Struggle 1920 – 1942 :		i	bhujangatrasita	a stance, representing
	(a) Vinayak Damodar Savarkar			kicking away	the illusion from the
	(b) Subhas Chandra Bose			devotee's mind.	
	(c) Vallabhbhai Patel		3	The main righ	The main right hand holds the damaru,
	(d) Sarat Chandra Bose			Shiva's ravour	310/si omodo
			Whi	ch of the state	Which of the statements given above is an
19	Who among the following is not a woman	an	COL	correct?	
1	Nayanar saint?		(a)	1 only	
	(a) Karaikkal Ammaiyar		(p)	2 only	
	(b) / Mangayarkkarasiyar		(c)	2 and 3 only	
	(c) Andal		(p)	1, 2 and 3	
	(d) Isaignaniyar	(5 B)	\ @		
5	JNUP-B-GKL))		

21.	Which	h one o	of the to I	es	24.	Consider the following statements with
	Hima	Himalaya?		Zone of		reteration of a acounting 1001S;
	(a)	Cashev	vnut 8	Cashewnut and Magnolia 🗸		_
		Oak and Maple	d Maj	rple√		rga dist
		Rhododendrons	lendro	suo		situated along a small seasonal stream
	(g)	Birch and Laurels	nd La	aurels		known as Kamta Halla.
				-		2. A Paleolithic blade is a flake tool, the
22.	Which	one of	f the ricult	Which one of the following statements about		width.
	(a)]	Plantation	ion fa	Plantation farm estates are scientifically		Which of the statements given above is/are correct?
		Dontation	_	farmino		(a) 1 only
	(a)	capital outlay.	outlay	0		(b) 2 only
	(0)	Plantation	ion i	farm lands have mainly		(c) Both 1 and 2
		toreign	OWITE	toreign ownerstup and local labour.	12	(d) Neither 1 nor 2
	(g	Plantat sale	ion fa	Plantation farmers rear the animals for sale.		
					25.	Consider the following statements about science in medieval South India:
23.	Match answe	List I	with l	Match List I with List II and select the correct answer using the code given below the Lists:		of numera
	T	List I		List II		which was invented by Vararuchi of Kerele the enthor of Chandra Vakvas
		(Name of Shifting Cultivation)	f Shif ion)			was used for calculating the position of Moon on any day of the year.
	А. Б	Roca		1. Sri Lanka		2. Achyuta Pisharati (1550 – 1621) wrote
	В. С	Chena		2. Thailand		Uparagakriyakrama, a text on eclipses.
	C.	Masole		3. Brazil		3. Ravi Varma of Mahodayapuram set up an observatory and is also said to have
	D. T	Tamarai		4. Zaire		inaugurated the Kollam era.
	Code:					Which of the statements given above is/are
	•	A B	ပ	Q		1
	(a)	2 4	-	3		
	(q)	2 1	4	63		(b) 3 only
	(S)	3 4	Н	23		(c) 1 and 2 only
	(g)	3 1	4	2		(d) 1, 2 and 3

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following dynasties of South 30. Which we line documents first in Prakrit and later in Sanskrit? Which of the

26.

- The Cholas of Tamil Nadu (a)
- The Pandyas of the post-Sangam Λ_{ge} **@**
 - The Pallavas of Tondaimandalam
 - **3**
- The Gangas of Kalinganagara **g**
- Who was the author of the Gwalior Prashasti of Mihira Bhoja ? 27.

Nagabhata

(a)

- Vatsaraja **@**
- Baladitya <u>ပ</u>
- Kakkuka **T**
- which can be traced back usually .g centuries, 11^{th} The Sahajiya Cult, associated with: and 10^{th} 2 28
- early Bhakti traditions (a)
- a kind of early Sufism 9
- early Upanishadic philosophy <u>်</u>
- Buddhism च
- case Subhash Sharma v. Union of India (1991) refers to which one of the following basic The landmark Supreme Court judgment in the features of the Constitution of India ?29.
- Judicial Review न्
- Rule of Law **@**
- Free and fair elections <u>ق</u>
- Fundamental Rights **ਉ**

- Which of the following statements about the Panchayats in India, as per the Constitution of India is/are correct?
- There is a provision for reservation of the Scheduled Çastes and $_{
 m for}$ seats

Scheduled Tribes.

- Panchayats are not authorised to collect taxes.
- Select the correct answer using the code given below: zi
- 1 only (a)
- 2 only 9
- Both 1 and 2 છે
- Neither 1 nor 2 **g**
- Government of India in 2014, is correct? launched Indradhanush, Mission

Which one of the following statements about

31.

- It relates to provisions for Child Health Intervention Early and Screening Services. (a)
- needs of It meets the diverse health adolescents. 9
- full immunisation coverage for children increase to aims છે
- and universal affordable, achieve quality healthcare services. equitable, to Its objective is ç **T**
- Which one of the following amendments to the introduced employment for people from the Economically Weaker Sections (EWS) of society? and has education India oę i. Constitution reservations

32.

- The Constitution (101st Amendment) Act (a)
- The Constitution (102nd Amendment) Act **(p**
 - The Constitution (122nd Amendment) Act The Constitution $(103^{\rm rd}$ Amendment) Act (c)

g

- 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
- 34. 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
 - (b) / The Speaker of the Lok Sabha
 - (c) The Supreme Court of India
 - (d) The concerned Political Party
- **35.** 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.

36. 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
- **37.** Which of the following pairs of Isolines and its properties are correctly matched?
 - 1. Isonif : Snowfall
 - 2. 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

- Which of the following is the correct order of 41. clouds in ascending order (lowest to highest) of 38. height from surface?
 - Cirrocumulus 1.
 - Nimbostratus 2.
 - Cirrus 3.
 - Altostratus 4.

Select the correct answer using the code given helow:

- 1, 2, 4, 3 (a)
- 2, 4, 3, 1 " (b)
- 3, 2, 1, 4 (c)
- 2, 4, 1, 3
- Which of the following pairs of revolution in 39. agriculture sector and its production are correctly matched?
 - Pink revolution

: Shrimp production

- 2.
- Yellow revolution : Oilseeds production
- 3.

Black revolution : Biodiesel production

Golden revolution • Egg production

Select the correct answer using the code given below:

- 1, 2 and 3 (a)
- (b) 2 and 3 only/
- (c) 1 and 3 only
- (d) 2 and 4 only
- Which one among the following statements about National Highways Authority of India (NHAI) is not correct?
 - NHAI collects fees on the National (a) Highway.
 - NHAI conducts training of Highway (b) Engineers at entry level and in-service.
 - and consultancy (c) **NHAI** provides and India in construction services abroad.
 - NHAI regulates and controls the plying of vehicles for its proper management.

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

Select the correct answer using the code given below:

- (a) 1, 2 and 4
- 2 and 4 only (b)
- 1 and 3 only (c)
- 3 and 4 only (d)
- 42. Match List I with List II and select the correct answer using the code given below the Lists:

List I List II (International (Theme) Yoga Day)

- 6th Edition 1.
- Yoga for well-being
- 7th Edition В.
- Yoga for health -Yoga at home
- 8th Edition 3. C.
- Yoga for Vasudhaiva Kutumbakam
- 9th Edition D.
- Yoga for Humanity

Code:

	\mathbf{A}	B	\mathbf{C}	D
(a)	2	4	1	3
(b)_	2	1	4	3
(c)	3	1	4	2
(b)	3	4	1	2

44.	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 (c) 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 (d) Athens		 Which company operated the ill-fated Titan submersible which recently imploded killing all five passengers while on a dive to visit the Titanic shipwreck under the waters of the North Atlantic? (a) Odyssey Marine Exploration (b) M.A.R.E. (Marine Adventure for Research and Education) (c) OceanGate Expeditions (d) Seafarer Exploration Corporation Which among the following is India's longest road tunnel? (a) Atal Tunnel (b) Kuthiran Tunnel (c) Dr. Syama Prasad Mookerjee Tunnel
45.	Under which one of the following rivers has India's first underwater metro rail tunnel been constructed? (a) Yamuna	50.	
	(b) Ganga		answer using the code given below the Lists:
	(c) Hooghly '		List I List II (Padma (Category)
	(d) Gomti	.*	Vibhushan/Padma Bhushan Awardee, 2023)
46.	Which among the following set of national	1	A. Dilip Mahalanabis 1. Literature &
	teams participated in the South Asian	n	(posthumous) Education B. Sudha Murthy 2. Public
	Football Federation Championship – 2023?		B. Sudha Murthy 2. Public Affairs
	(a) Sri Lanka, India, Bangladesh		C. S.M. Krishna / 3. Social Work
	(b) Lebanon, Kuwait, Pakistan(c) India, Pakistan, Myanmar		D. S.L. Bhyrappa
	(c) India, Pakistan, Myanmar(d) Nepal, Sri Lanka, Bhutan		
	(d) Nepai, 511 Lanka, Bilavan		Code:
47.	Which butterfly species was recently name	ed	A B C D
-••	the official butterfly of Jammu and Kashmir	?	(a) $\sqrt{4}$ 3 2 1
	(a) Noble's Helen		(b) 4 2 3 1
	(b) Kaisar-i-Hind		(c) 1 2 3 4
	(c) Blue Duke		(d) 1 3 2 4
	(d) Blue Pansy		
		17 – 1	В)
NOD.	-B-GKL		

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. Megh_{alaya}

B. Chapchar Kut

2. Sikkim

4.

C. Nongkrem Dance Festival 3. Nagaland

D. Saga Dawa *

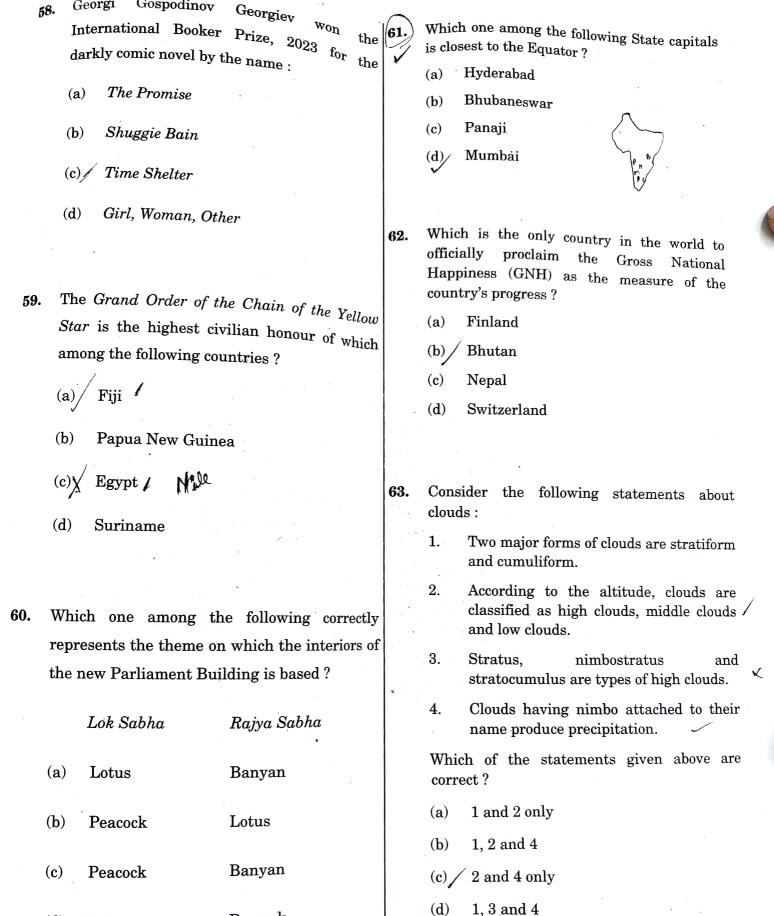
Mizoram

Code:

A B C D

- (a) 2 4. 1 3
- (b) 3 1 4 2
- (c)/3 4 1 2
- (d) 2 1 4 3
- 52. 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
 - (d) Russia
- 53. Abhinav Bindra is the winner of the first ever individual Olympic gold medal for India. He won gold in which shooting event and in which Olympic Games?
 - (a) 10 meter air pistol, London
 - (b) 10 meter air rifle, London
 - (c) 10 meter air rifle, Beijing
 - (d) 10 meter air pistol, Beijing

- 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
- 55. 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
- 56. Who among the following set of players from India have either won or secured the runner-up position in the All England Badminton Tournament?
 - (a) Prakash Padukone, P.V. Sindhu, Parupalli Kashyap
 - (b) Pullela Gopichand, Saina Nehwal, X Lakshya Sen
 - (c) Prakash Padukone, Pullela Gopichand, Srikanth Kidambi
 - (d) Lakshya Sen, Saina Nehwal, P.V. Sindhu
- 57. 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



(21 - B)

Peacock

(**d**)

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Lotus

- Which one of the following expenditures is subtracted from Fiscal Deficit to arrive at 67.
 - (a) Defence expenditure
 - (b) Expenditure on subsidies
 - (c) Interest payments
 - (d) Pension
- 65. The Wholesale Price Inflation has increased in India during 2021 2022 due to which of the following factors?
 - 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

Select the correct answer using the code given below:

- (a) 2 and 3 only
- (b) 1, 3 and 4
- (c) 1 and Zonly
- (d) 1 and 4 only
- 66. 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
- 68. 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. x

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 1 and 3 only χ
- (c) (2) and 3 only
- (d) 1, 2 and 3
- **69.** 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) \nearrow Both 1 and 2
- (d) Neither 1 nor 2

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- correct? is/are 73.
- Shivaji sent an ambassador to Bombay 1. to negotiate an agreement with the
- His chief motive was to secure English 2. aid against the Siddis of Danda-Rajpuri.
- He wanted a supply of grenades, 3. mortars and other ammunition.

Select the correct answer using the code given

- (a) 1 only
- (b) 1 and 3 only
- 2 and 3 only (c)
- (d) 1, 2 and 3
- famous Hathigumpha inscription of 71. Kharavela mentions that in the eleventh year Kharavela $\operatorname{destroyed}$ 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?
 - 110 years old (a)
 - (b) 111 years old
 - 112 years old (c)
 - (d) 113 years old
- Which of the following statements about the 72. Vaishnava saint of Assam, Shankardeva, is/are correct?
 - His teachings are often known as the 1. Bhagavati dharma.
 - 2. He encouraged the establishment of satras or monasteries and namghars 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

- Abdur Razzaq, an ambassador of the ruler of Persia, was sent to Calicut in the fifteenth century. He was greatly impressed by the:
 - Fortifications of Calicut (a)
 - Climatic conditions of the coastal town (b)
 - High quality spices of the place (c)_/
 - Musical traditions of the place (d)
- Which of the following statements about the 74. 'Race to Zero Campaign' is/are correct?
 - One of the main objectives of the Race to 1. 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

- 75. Which of the following statements about National Action Plan on Climate Change (NAPCC) with reference to India is/are
 - 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.

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
- 76. 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
 - (d) Socio-economic empowerment of India's blue collar workers in the unorganized sector
- 77. 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:

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

- **78.** Which one of the following is *not* a permanent member of the UN Security Council?
 - (a) France
 - (b) China
 - (c) / Japan
 - (d) United Kingdom
- **79.** 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
- **80.** Which one of the following passes is **not** located in Indian Himalayan region?
 - (a) Zojila
 - (b) Bolan
 - (c) Shipkila /
 - (d) Lipulekh

As per the Cabinet Resolution of 1st January, 84.

Prime Minister of India

- Governing Council comprising of Chief 2. Governors State_8 Territories and u_{nion}
- Rural Development Minister 3.
- Chief Executive Officer to be appointed 4.

Select the correct answer using the code $_{\rm given}$

- 1, 2 and 3 (a)
- (b) / 1, 2 and 4
- 1 and 2 only (c)
- 3 and 4 only (d)
- The executive is given an advance grant to 82. 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:
 - Vote of Credit (a)
 - (b) Vote on Account
 - (c) Appropriation Bill
 - Advance Account
- 83. Which of the following is/are United Nations Sustainable Development Goal(s)?
 - Decent work and economic growth 1.
 - Peace, justice and strong institutions 2.
 - Responsible consumption and production 3.

Select the correct answer using the code given below:

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

Consider the following statements on 'Fog':

- Fog is simply a cloud that forms close to 1. the ground.
- Radiation fog 2. is associated radiation cooling of the land at night.
- Advection fog forms when moisture is 3. blown over a cold surface and is chilled by contact.

Which of the statements given above are correct?

- 1 and 2 only (a)
- 2 and 3 only (b)
- 1 and 3 only (c)
- 1, 2 and 3 (\mathbf{d})
- Which one of the following landforms is/are 85. formed by wind erosion?
 - Cirque & (a)
 - (b) Stack
 - (c) / Zeugen
 - Stack and Zeugen both (d)
- 86. Which one of the following crops is not cultivated under dryland farming?
 - Jowar / - (a)
 - Ragi / (b)
 - (c) / Sugarcane
 - Groundnut/ (d)
- Which one of the following forms of settlement 87. develops around a lake?
 - Linear (a)
 - Cross-shaped (b)
 - (c) Circular
 - (d) Square

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- 88.
- How can resources be classified on the basis of 92.
 - Renewable and non-renewable (b) (c)
 - Individual and $\operatorname{community}$
 - Potential and reserve (d)
- Which one among the following is the highest 89.
 - (a)√ Atlas Mountain
 - Mount Kilimanjaro (b)
 - Mount Kenya (c)
 - Mount Elgon (d)
- Which of the following action(s) by the 90. Government would lead to contraction of 1.
 - Purchase of Treasury Bills by the central bank from public 2.
 - Sale of Treasury Bills by the central 3.
 - Sale of foreign exchange by the pentral
 - Purchase of foreign exchange by the 4.

Select the correct answer using the code given

- (a) 1 and 4 only
- 1 and 3 only (b)
- (c)2 and 3 only
- (d) 2 only
- Which of the following are included in the definition of Narrow Money?
 - Currency with the public 1.
 - 2. Demand deposits
 - 3. 'Other' deposits with Reserve Bank of India
 - 4. Banker's deposits with Reserve Bank of

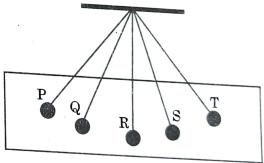
Select the correct answer using the code given below:

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

- Which of the following is/are the effects of devaluation or depreciation of currency $? \downarrow$
 - It leads to increase in imports and decrease in exports.
 - It leads to increase in exports and 2. decrease in imports.
 - It leads to increase in domestic inflation. 3.
 - 4. leads to decrease in domestic inflation.

Select the correct answer using the code given

- 1 and 3 only λ (a)
- 1 and 4 only
- 2 and 3 only
- (d) / 3 only
- Which one of the following taxes is not 93. subsumed under the Goods and Services Tax
 - (a) Customs Duties
 - Central Excise Duties (b)
 - (c) Service Tax
 - Taxes on Petroleum and Petroleum Products
- The following diagram shows a pendulum at 94. different positions. Which one of the following statement is true?



- The pendulum has minimum potential (a) energy at positions P and T.
- The pendulum has minimum potential (b) energy at positions Q and S.
- The pendulum has minimum potential (c) energy at position R.
- The pendulum has same potential (d) energy at all positions.

- 95. In which of the following media is the speed of 98.
 - (a) Glass
 - (b) Stainless steel
 - (c) Water
 - (d) Oxygen
- 96. 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) ${f F}$ is maximum when ${f v}$ and ${f B}$ are parallel to each other.
 - (b) **F** is maximum when **v** and **B** are anti-parallel to each other.
 - (c) **F** is maximum when **v** and **B** are perpendicular to each other.
 - (d) The force \mathbf{F} is independent of the angle between \mathbf{v} and \mathbf{B} .
- 97. 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)
$$T_F = \frac{9}{5}T_C + 36$$

$$T_{\rm F} = \frac{9}{5} T_{\rm C} + 32$$

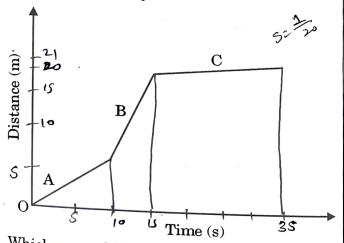
- Which one of the following statements is correct regarding the travel of a light beam from a rare to a dense medium?
 - (a) A light beam travelling from a rare medium to a dense medium slows down and bends towards the normal.
 - (b) A light beam travelling from a rare medium to a dense medium speeds 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.
- **99.** In which one of the following cases do both physical and chemical changes take place?
 - (a) Burning of candle
 - (b) Freezing of water
 - (c) Cooking of food
 - (d) Rusting of iron
- **100.** 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.

A person can see near objects clearly through 103. A concave mirror of radius of curvature 50 cm see distant see distant clearly. The possible reason(s) for this defect

- Excessive curvature of the eye lens. \times 1.
- The eye-ball has become too small. 2.
- The focal length of the eye lens is too 3.
- Elongation of the eye-ball. 4.

Select the correct answer using the code given

- (a) 1 only
- $\hat{2}$ and 4 $_{
 m only}$
- 1 and 4 only (c)
- (d) 1 and 3 only
- 102. 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?

- $^{(a)} \quad v_a < v_b < v_c$
- (b) $v_b > v_a > v_c$
- $v_a = v_b = v_c$
- $v_a > v_b$; $v_a > v_c$

- distance of 25 cm from the mirror on its principal axis. What will be the position of the image from the mirror?
 - (a) At infinity
 - At 50 cm (b)
 - (c) At 25 cm
 - At 75 cm
- 104. 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:
 - reduce to half of its original value. (a)
 - increase to two times of its original (b). value.
 - remain the same as the original value. (c)
 - increase to four times of its original (d) value.
- Sonic boom is produced when a source of 105. sound travels at a speed:
 - 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.
- 106. 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
 - (c) Au, Sn, Pb
 - (d) Au, Sb, Pb

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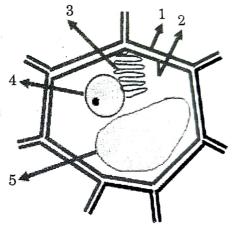
- 107. How much percentage of carbon dioxide is 111. The term Phyllotaxy refers to the pattern of: present in the atmosphere of Venus and
 - (a) 45 - 47%
 - 52 55%(b)
 - 74 77%(c)
 - (d) 95 - 97%
- 108. Which among the following methods is used to separate the constituents present in a compound?
 - Electrochemical method (a)
 - Heating method (b)
 - Fractional distillation (c)
 - Decomposition followed by ion exchange (d)
- 109. During white-washing of walls, slaked lime reacts slowly with carbon dioxide in air to form a thin layer of calcium carbonate on the Which of the following reactions represents this correctly?

(a)
$$/$$
 CaO (s) + CO₂ (g) \rightarrow CaCO₃ (s)

- $CaO(l) + CO_2(g) \rightarrow CaCO_3(s)$ (b)
- $Ca(OH)_2(l) + CO_2(l) \rightarrow CaCO_3(s) +$ (c)
- $\mathrm{Ca(OH)}_{2}\,(\mathrm{aq}) + \mathrm{CO}_{2}\,(\mathrm{g}) \,\rightarrow\, \mathrm{CaCO}_{3}\,(\mathrm{s}) + \\$ (d) $H_2O(l)$
- 110. Which one of the following equations is the balanced chemical equation for the given reaction?

- $\mathrm{Fe} + 4\mathrm{H}_2\mathrm{O} \ \rightarrow \ \mathrm{Fe}_3\mathrm{O}_4 + \mathrm{H}_2$ (a)
- $3\mathrm{Fe} + \mathrm{H}_2\mathrm{O} \, \rightarrow \, \mathrm{Fe}_3\mathrm{O}_4 + 2\mathrm{H}_2$ (b)
- (c) $3\text{Fe} + 4\text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + 4\text{H}_2$
- $3\mathrm{Fe} + 4\mathrm{H}_2\mathrm{O} \ \rightarrow \ \mathrm{Fe}_3\mathrm{O}_4 + \mathrm{H}_2$ (d)

- - branching in stem. (b)
 - flower formation on branch. (c)
 - (d) arrangement of flowers.
- 112. Chromosomes are composed of DNA and:
 - lipids (a)
 - vitamins (b)
 - (c) / proteins
 - carbohydrates (d)
- 113. Bacteria have an undefined nuclear region which lacks a nuclear membrane and contains only DNA without proteins. Such a region is called:
 - (a) Nucleosome
 - Nucleus (b)
 - Nucleoprotein (c)
 - Nucleoid (d)/
- 114. In the following simplified diagram of a plant cell, five parts/organelles are marked from 1 to 5:



 \mathbf{of} thefollowing Which one represents the above parts/organelles?

- 1 cell membrane; 2 cell wall; (a)
 - 3 vacuole; 4 endoplasmic reticulum;
 - 5 nucleus \vee
- 1 cell wall, 2 cell membrane; (b)
 - 3 endoplasmic reticulum; 4 vacuole;
 - 5 − nucleus×
- 1 − cell wall; 2 − cell membrane; ∕
 - 3 endoplasmic reticulum; 4 nucleus;
 - 5 vacuole
- 1 cell walf; 2 cell membrane; (d)
 - 3 vacuole; 4 endoplasmic reticulum;
 - 5 nucleus⊳

- Which one of the following is the language of 119. Which of the following statements is/are. the famous political treatise Amuktmalyada?
 - Sanskrit
 - (b) Tamil
 - (c) Kannada
 - (d) Telugu
- 116. Which one of the following statements about the Shvetambara Sect of Jainism is not
 - It refers to monks, who wear white (a) clothes.
 - It refers to monks, who migrated to the south of Vindhyas in 4th century BCE. <
 - They recognized (c) $ext{the}$ existence of canonical texts including the 12 Angas.
 - They believed that women can also (d) attain salvation.
- 117. Where is the Vikramkhol Cave located?
 - Odisha (a)
 - (b) Bihar
 - Telangana (c)
 - West Bengal (d)
- 118. Consider the following statements regarding the 'Levallois Technique':
 - It refers to making perforated Harappa 1. pottery.
 - It refers to making prehistoric flake 2. tools.

Which of the statements given above is/are correct?

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

- correct?
 - The Bakshali Manuscript written in the 1. 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 2.described the various properties of a circle giving a very accurate value for pi (π) correct to four decimal places at 3.1416.
 - Sharangadhara Samhita is an important 3. text on political system of ancient India.

Select the correct answer using the code given below:

- 1, 2 and 3 (a)
- 1 and 3 only (b)
- 1 and 2 only (c)
- 2 only (d)
- 120. Which one of the following is not correct about the Indian Independence Act, 1947?
 - 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 (b) framework of the Indian Constitution.
 - The Act provided for the establishment (c) 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.