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# ESE - 2016 GENERAL ABILITY TEST

### **QUESTIONS WITH DETAILED SOLUTIONS**



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#### PART-A

#### SPOTTING ERRORS

**Directions:** Each item in this section has a sentence with three underlined parts labeled (a), (b) and (c). Read each sentence carefully to find out whether there is any error in any underlined part and indicate your response in the Answer Sheet against the corresponding letter i.e., (a) or (b) or (c). If you find no error, your response should be indicated as (d).

01.	We were in search of an empo	orium where we could buy	<u>ladies garments chea</u>	aply.
	(a)	(b)	(c)	
	No error	INEERING		
	(d)	ENC. V JCA		
01.	Ans: (c)	9 (1) 7	E.	
Sol:	ladies' garments			
02.	Mahatma Gandhi was in arres	t on several occasion	s during the freedom	struggle.
	(a)	(b)	(c)	
	No error			
	(d)			
02.	Ans: (a)	Since 1995		
Sol:	was arrested			
		ALL		
03.	A part of the audience	became restive and	began to shout loudly.	No error
	(a)	(b)	(c)	(d)
03.	Ans: (a)			
Sol:	a small group of / a few of			
04.	I have been frantically trying	to find a suitable house in I	Delhi from the pas	<u>t six months.</u>
	(a)	(b)	(c)	
	No error			
	(d)			
04.	Ans: (c)			
Sol:	for the past six months			
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	ACE Engineering Academy	: 3 :	GENERAL A	ABILITY (SET_A)
Server.	57			
05.	People is likely to revolt	against a government	if treated harshly ov	er a long period.
	(a)	(b)	(c)	
	No error.			
	(d)			
05.	Ans: (a)			
Sol:	people are			
06.	Speech is most valuable	among the faculties whic	h man possesses.	No error.
	(a)	(b)	(c)	(d)
<b>06.</b>	Ans: (a)			
Sol:	the most			
07.	A large number of people	continues to be illiterate	in our country.	<u>No error.</u>
	(a)	(b) ERING 40	(c)	(d)
07.	Ans: (b)	Less A M	2	
Sol:	continue to be	ç I	3	
08.			lot of money. No e	
	(a)	(b) (c)	(d	)
<b>08.</b>	Ans: (c)			
Sol:	with a lot of money			
0.0		Since 1995		
09.		hieve <u>a first in the annual</u>	-	<u>rror.</u>
00	(a) (b		(d)	
09.	Ans: (a)			
Sol:	what are you doing			
10.	Many a flower is bo	rn to blush unseen.	No error.	
	(a) (b)	(c)	(d)	
10.	Ans: (d)			

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he does not listen to anybody 11. His greatest weakness is that and is often blind of his own faults. (b) (a) (c) No error (d) 11. Ans: (c) Sol: blind to his own faults 12. He caught him by the neck and dealt him a sound thrashing. No error. (d) (a) (b) (c) 12. Ans: (b) Sol: and gave him

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	-			
13.	Spectators of a footbal	l match are pleased	when a goal is thrown.	<u>No error.</u>
	(a)	(b)	(c)	(d)
13.	Ans: (c)			
Sol:	goal is scored			
14.	The whole country	will be perished	if people do not work h	ard. <u>No error.</u>
	(a)	(b)	(c)	(d)
14.	Ans: (b)			
Sol:	will perish			
15.	I know by experience	that badminton can be	e a verv exciting	game. <u>No error.</u>
	(a)	(b)	(c)	(d)
15.	<b>Ans: (a)</b>	(-)	(-)	(-)
	I know from experienc			
301:	I KNOW HOIH EXPERIENC	T	RINC	

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#### SENTENCE IMPROVEMENT

**Directions:** Look at the underlined part of each sentence. Below each sentence are given three possible substitutions for the underlined part. If one of them (a), (b) or (c) is better than the underlined part, indicate your response on the Answer Sheet against the corresponding letter (a), (b) or (c). If none of the substitutions improves the sentence, indicate (d) as your response on the Answer Sheet. Thus a "No improvement" response will be signified by the letter (d).

- 16. <u>How much</u> ago did it happen?
  - (a) How far (b) However
  - (c) How long (d) No improvement
- 16. Ans: (c)
- 17. He <u>frequents</u> this restaurant.
  - (a) seldom visits
  - (b) looks after
  - (c) is the manager of
  - (d) No improvement
- **17.** Ans: (d)
- 18. I shave on <u>alternative days.</u>
  - (a) every second day
  - (b) alternate days
  - (c) consecutive days
  - (d) No improvement
- **18. Ans: (b)**
- The result of the examination <u>has not</u> <u>known</u> for another two months.
  - (a) will not be known
  - (b) will not know
  - (c) will not be knowing
  - (d) No improvement

**19. Ans:** (a)

- 20. Ram Singh came very close to win a gold medal for India in the Olympics.
  (a) for winning (b) to have won
  (c) to winning (d) No improvement
- **20.** Ans: (c)
- 21. Many <u>a young men</u> wants to join the army.
  (a) young man
  (b) a young man
  (c) young men
  (d) No improvement
  21. Ans: (b)
- 22. We have met before, <u>isn't it?</u>
  (a) didn't we? (b) have we?
  (c) haven't we? (d) No improvement
- 22. Ans: (c)
- 23. You will not succeed, <u>unless you do not</u> work hard.
  - (a) unless you will not work hard
  - (b) unless you will work hard
  - (c) unless you work hard
  - (d) No improvement
- 23. Ans: (c)

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			(c) in seeing (d) No improvement
		28.	Ans: (a)
24. 24.	It is no use <u>to cry over spilt milk.</u> (a) crying over spilt milk (b) in crying over spilt milk (c) of crying over spilt milk (d) No improvement <b>Ans: (a)</b>	29.	It became dark after we <u>were walking</u> for about half an hour. (a) have been walking (b) have walked (c) had walked (d) No improvement
25.	His room is very longer than mine	29.	<b>Ans: (c)</b>
	<ul><li>(a) too larger than mine</li><li>(b) much larger than mine</li><li>(c) more larger than mine</li><li>(d) No improvement</li></ul>	30.	He <u>is living</u> in this city for the last three years. (a) lived (b) has been living
25.	Ans: (b)	30.	(c) lives (d) No improvement Ans: (b)
26. 26.	Though it was raining <u>but he went out.</u> (a) and he went out (b) he went out (c) however he went out (d) No improvement <b>Ans: (b)</b>	31.	<ul> <li>'Where does your friend live?' 'I don't know where my friend does live.'</li> <li>(a) does my friend live</li> <li>(b) he lives</li> <li>(c) lives my friend</li> </ul>
		~	(d) No improvement
27. 27.	He is sharpening the pencil <u>by a knife</u> . Since (a) on a knife (b) from a knife (c) with a knife (d) No improvement <b>Ans: (c)</b>	<b>31.</b> 32. <b>32.</b>	Ans: (b)Any of the three offers is acceptable to me.(a) Every(b) Either(c) All(d) No improvementAns: (d)
28.	We were pleased <u>to seeing</u> her. (a) to see (b) from seeing	33.	We all went <u>on picnic</u> last Sunday. (a) to a picnic (b) in picnic

:7:

(c) on a picnic (d) No improvement

#### **33.** Ans: (c)

- 34. It is <u>too early</u> to go to school.
  - (a) very early (b) quite early
  - (c) much early (d) No improvement

34. Ans: (d)

- 35. A square peg <u>does not fit into a round hole.</u>
  - (a) does not fit in a round hole
  - (b) cannot fit around a round hole
  - (c) does not fit inside a round hole
  - (d) No improvement

#### 35. Ans: (a)

#### **ORDERING OF WORDS IN A SENTENCE**

**Directions:** Each of the following items in this section consists of a sentence the parts of which have been jumbled. These jumbled parts have been labelled P, Q, R and S which are followed by four sequences namely (a), (b), (c) and (d). You are required to rearrange the jumbled parts to produce the correct sentence. Choose the correct sequence and mark in your Answer Sheet accordingly.

36.	The doctor told			(a) PSRQ	(b) QPSR
	(P) the patient		$\leq$	(c) PRQS	(d) RQPS
	(Q) to give an injectio	n to Since	37.	Ans: (d)	
	(R) the nurse	Since	38.	His father said,	
	(S) after four hours			(P) and stop	
	The correct sequence	should be	/ 1	(Q) on trivial things	
	(a) RQPS	(b) RPSQ		(R) wasting your time	e
	(c) QPSR	(d) PSRQ		(S) now get up	
36.	Ans: (a)			The correct sequence	should be
50.	Alls. (a)			(a) SPRQ	(b) PSRQ
37.	The judge			(c) QRSP	(d) RQSP
	(P) lied to the court		38.	Ans: (a)	
	(Q) why he had				
	(R) asked the accused		39.	The stranger's mover	nents
	(S) in spite of his oath			(P) and the police	
	The correct sequence	should be		(Q) him	
	-				

	ACE Engineering Academy	:9:		GENERAL ABILITY (SET_A)
<b>39.</b> 40.	<ul> <li>(R) arrested</li> <li>(S) aroused suspicion</li> <li>The correct sequence should be</li> <li>(a) SQPR (b) RQPS</li> <li>(c) SPRQ (d) RPQS</li> <li>Ans: (c)</li> <li>The future</li> <li>(P) is uncertain</li> <li>(Q) career</li> <li>(R) man</li> <li>(S) of this noble</li> <li>The correct sequence should be</li> </ul>	<b>40.</b> 41. <b>41.</b>	<ul> <li>(a) PQSR</li> <li>(c) RPSQ</li> <li>Ans: (d)</li> <li>The food</li> <li>(P) at the parts</li> <li>(Q) served</li> <li>(R) was delicited</li> <li>(S) but not when the correct set of the correct s</li></ul>	ous
		I		

#### SELECTING WORDS

**Directions:** In the following passage at certain points you are given a choice of three words marked (a), (b) and (c), one of which fits the meaning of the passage. Choose the best word out of the three. Mark the letter, viz., (a), (b) or (c), relating to this word on your Answer Sheet. Examples K and L have been solved for you.

К		L	
The (a) boy	was in the school in Simla.	(a) She	was home sick.
(b) horse		(b) It	
(c) dog	Sinc	(c) He	

**Explanation:** Out of the list given in item K, only 'boy' is the correct answer because usually, a boy, and not a horse or a dog, attends school. So '(a)' is to be marked on the Answer Sheet for item K. A boy is usually referred to as 'he', so for item L, '(c)' is the correct answer. Notice that to solve the first item K you have to read the rest of the sentence and then see what fits best.



#### PASSAGE

The crow is a familiar bird. Everybody must have seen one. With their cawing the crows 42 Wake us up early in the morning. The cawing of the crows is very (a) pleasant. They



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48				49		
(a) when	they come clo	se to your		(a) feet	if you	have any food to
(b) that				(b) hand		
(c) as				(c) mouth		
48. Ans: (b)				<b>49. Ans: (b)</b>		
-				- 1		
50				51		
(a) present	them. They ha	ave sharp eyes t	0	(a) check	their c	unningness.
(b) throw				(b) watch		
(c) offer		1		(c) show		
<b>50. Ans: (c)</b>		0		51. Ans: (c)		
		GINEE	RING	40		
	52	LET .	A	53		
They are also very	(a) mild	and will come	into the	e house (a) on	snatch	up food.
	(b) courageou	S		(b) to		
	(c) impudent			(c) for		
	52. Ans: (c)			<b>53.</b> An	ls: (b)	
	54		$\leq$		55	
In summer they	v (a) all	fly about with	their po	ointed beaks	(a) clo	sed in search
	(b) some				(b) ope	en
	(c) both				(c) turi	ned
	54. Ans: (a)				55. An	ıs: (b)
		56				57
of water. They	quench their	(a) thirst	at publ	ic baths or on t	he	(a) banks
		(b) hunger				(b) floor
		(c) desire				(c) slope

:11:



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GENERAL ABILITY (SET A)

#### :13:

- Which one of the following is India's first 61. indigenously built nuclear-powered submarine?
  - (a) INS Arihant
  - (b) INS Sindhurakshak

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- (c) INS Viraat
- (d) INS Vikramaditya

#### 61. Ans: (a)

- Sol: INS Arihant is the lead ship of India's Arihant class of nuclear-powered ballistic missile submarines built under the Advanced Technology Vessel (ATV) project. The vessel will be powered by an 83 megawatts (111,305 hp) pressurised light-water reactor with enriched uranium fuel
- The Constitution of India was adopted by 62. the Constituent Assembly on:
  - (a) 26<sup>th</sup> January 1950
  - (b) 15<sup>th</sup> August 1947
  - (c) 30<sup>th</sup> January 1948
  - (d)  $26^{\text{th}}$  November 1949

#### **62.** Ans: (d)

Sol: The Constitution of India was adopted on 26 November, 1949 and came into force on 26 January, 1950.

Which National Highway connects Uttar 63. Pradesh and TamilNadu?

(a) NH4	(b) NH5
(c) NH6	(d) NH7

#### 63. Ans: (d)

- Sol: National Highway 44 (NH 44). (previously National Highway 7), is longest running major North-South National Highway in India that starts from Srinagar and terminates in Kanyakumari, the highway passes through the states of Himachal Pradesh, Punjab, Harvana, Delhi, Uttar Pradesh, Madhya Pradesh, Maharashtra, Telangana, Andhra Pradesh, Karnataka, and Tamil Nadu.
- Which one of the following countries is not 64. a member of ASEAN?
  - (a) Indonesia
- (b) South Korea

## (c) Thailand

(d) Vietnam

#### Ans: (b) **64.**

Sol: The Association of Southeast Asian Nations ASEAN is a political and economic organisation of ten Southeast Asian countries. It was formed on August 8th, 1967 by Indonesia, Malaysia, the Philippines, Singapore, and Thailand and the membership has expanded to include Brunei, Cambodia, Laos, Myanmar, and Vietnam.

**PART-B** 



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#### PAPER PATTERN

#### PAPER STRUCTURE

S.No.	Section	Subjects	No of Q's	Total marks	1.	Total marks	240
					2.	Total Number Questions	120
1.	Section - 1	Engineering - 1	50	100	3.	Time Allowed	3 Hours = 180 Minutes
2.	Section - 2	Engineering - 2	50	100	4.	Medium of Examination	English
					5.	Negative Marketing	Yes (25%)
3.	Section - 3	General Ability	20	40	6.	Type of Questions	Objective type

#### SYLLABUS

**SECTION - 1:** Materials and Components, Physical Electronics, Electron Devices and ICs, Network theory, Electromagnetic Theory, Electronic Measurements and Instrumentation, Power Electronics

**SECTION - 2 :** Analog Electronic Circuits, Digital Electronic Circuits, Control Systems, Communication systems, Microwave Engineering, Computer Engineering, Microprocessors

SECTION - 3 : General ability test (General Knowledge, Current Affairs, General English) (based on the previous exam papers)

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- 65. The term 'Bali Action Plan', is sometimes seen in news in the context of :
  - (a) Global climate change
  - (b) Global terrorism

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- (c) Global wildlife trafficking
- (d) World trade

#### 65. Ans: (a)

- Sol: The Bali Road Map was adopted at the 13th Conference of the Parties (COP 13)in Bali.The Bali Action Plan is divided into five main categories: shared vision, mitigation, adaptation, technology and financing. The shared vision refers to a long-term vision for action on climate change, including a long-term goal for emission reductions.
- 66. Who of the following is known as the 'Iron Man of India'?
  - (a) Vallabhbhai patel
  - (b) Bipin Chandra Pal
  - (c) Gopal Krishna Gokhale
  - (d) Bal Gangadhar Tilak

#### 66. Ans: (a)

Sol: Sardar Patel known as Iron Man or Steel Man of India was the one who started the dream of Republic India and integrated all the princely states and we are today the largest democracy in the world. 67. Bardoli Satyagraha, 1928 was a peasant movement launched against the:
(a) Raised rate of tax by the Government
(b) Failure of Round Table Conference
(c) Visit of Simon Commission
(d) Lathi charge on Lala Lajpat Rai

#### 67. Ans: (a)

Sol: The Bardoli Satyagraha of 1928, in the state of Gujarat, India during the period of the British Raj, was a major episode of civil disobedience and revolt in the Indian Independence Movement.In 1925, the taluka of Bardoli in Gujarat suffered from floods and famine. causing crop production to suffer and leaving farmers facing great financial troubles. However, the government of the Bombay Presidency had raised the tax rate by 30% that year, and despite petitions from civic groups, refused to cancel the rise in the face of the calamities.

> The situation for the farmers was grave enough that they barely had enough property and crops to pay off the tax, let alone for feeding themselves afterwards.Patel then instructed all the farmers of Bardoli taluka to refuse payment of their taxes.

Well known Lake	<u>State</u>
1. Chilika Lake :	Odisha
2. Kolleru Lake :	Kerala
3. Pulicat Lake :	Karnataka
Which of the pairs	given above is/are
correctly matched?	
(a) 1 only	(b) 2 and 3 only

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

#### 68. Ans: (a)

Sol: Chilika Lake is a brackish water lagoon, spread over the Puri, Khurda and Ganjam districts of Odisha state on the east coast of India, at the mouth of the Daya River, flowing into the Bay of Bengal, covering an area of over 1,100km. It is the largest coastal lagoon in India and the second largest lagoon in the world.

Kolleru Lake is one of the largest freshwater lakes in India located in state of Andhra Pradesh 15km away from the city of Eluru.

Pulicat Lake is the second largest brackish – water lake or lagoon in India, after Chilika Lake. It straddles the border of Andhra Pradesh and Tamil Nadu states with over 96% of it in Andhra Pradeshand 3% in Tamil Nadu situated on the Coromandal Coast in South India.

NOWAT HYDERABAD CHENNAI DELHI LUCKNOW HYDERABAD DELHI CHENNAI TIRUPATI PATNA PUNE BENGALURU VIZAG PUNE DELHI KUKATPALLY HYDERABADPUNE VIJAYAWADA DELHICHENNAIBHOPAL BHUBANESWAR DELHICHENNAIBHOPAL BHUBANESWAR DELHICHENNAIBHOPAL BHUBANESWAR DELHICHENNAIBHOPAL BHUBANESWAR DELHICHENNAIBHOPAL BHUBANESWAR DELHICHENNAIBHOPAL BHUBANESWAR DELHICHENNAIBHOPAL BHUBANESWAR

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- 69. Which one of the following is not a member of SAARC?
  - (a) Myanmar (b) Maldives
  - (c) Bhutan (d) Afghanistan

#### **69. Ans:** (a)

- Sol: The South Asian Association for Regional Cooperation (SAARC) is a regional intergovernmental organization and geopolitical union in South Asia. Its member states include Afghanistan, Bangladesh, Bhutan, India, Nepal, the Maldives, Pakistan and Sri Lanka.
- 70. In the Union Government, the Council of Ministers is collectively responsible to:(a) Prime Minister
  - (a) Finne Miniso
  - (b) Lok Sabha
  - (c) Both Lok Sabha and Rajya Sabha
  - (d) Union Cabinet
- 70. Ans: (b)
- Sol: All ministers, as a body are collectively responsible to the house of people (Lok Sabha). This responsibility, called the collective responsibility implies that ministers work as one unit/team.
- 71. If the Annual Union Budget is not passed by Lok Sabha:
  - (a) The President of India asks the Finance Minister to resign

- (b) The Prime Minister asks the Finance Minister to resign
- (c) The Finance Minister modifies it and presents it again
- (d) The Prime Minister submits the resignation of his Cabinet

#### 71. Ans: (d)

- Sol: If the annual budget is not passed by the Lok Sabha the PM submits the resignation of his cabinet which means the PM failed to prove his majority in the house.
- 72. Which of the following is/are used as both fertilizer as well as explosive?
  - 1. Ammonium nitrate
  - 2. Calcium sulfate
  - 3. Potassium permanganate
  - Select the correct answer using the code given below
  - (a) 1 only

(c) 1 and 3 only

(b) 2 and 3 only (d) 1, 2 and 3

- 72. Ans: (a)
- Sol: The chemical compound ammonium nitrate, is a white crystalline solid and is highly soluble in water. It is predominantly used in agriculture as a high-nitrogen fertilizer. The compound is used as an explosive in mining, and also sometimes in improvised explosive devices.

73. The expenditure which can be charged on the Consolidated Fund of India:

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- (a) is discussed and voted by the Parliament
- (b) can be discussed but is not put to vote before Parliament
- (c) can neither be discussed nor voted by the Parliament
- (d) is discussed and voted by the Lok Sabha only

#### **73.** Ans: (b)

- Sol: The expenditure which can be charged on the Consolidated Fund of India can be discussed but is not put to vote before Parliament. Eg: debt charges of govt. of India, salaries of President and other expenses on his office etc.
- 74. What is NEOShield, sometimes seen in news?
  - (a) An international consortium to address the asteroid threat to Earth
  - (b) A geo-engineering project of OECD countries to find the ways to save the Earth from global warming
  - (c) NASA's project to find the ways to ward off the effects of solar flares on out communication systems
  - (d) A ballistic missile defence system developed by a group of countries

74. Ans: (a)

- Sol: NEO Shield is an international consortium to address the near-Earth object (NEO) impact threats to Earth, and to organize, prepare and implement mitigation measures.
- 75. Consider the following plants:
  - 1. Cycas
  - 2. Date palm
  - 3. Pinus

Which of the above is/are flowering plants?

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

(d) 1, 2 and 3

#### **75.** Ans: (c)

- Sol: Cycas is a plant which comes under order Cycadales and division Gymnospermae.Date palm comes under Angiosperms. Pine is a conifer comes under Pinophyte which is a gymnosperm.Angiosperms are flowering plants whereas gymnosperms don'thave ovary.
- 76. Recently, between which of the following countries has a 534km long gas pipeline been proposed to be constructed?
  - (a) France and Hungary
  - (b) Germany and Italy
  - (c) Poland and Lithuania
  - (d) Greece and Turkey



#### 76. Ans: (c)

- Sol: To help create an integrated EU energy market, the European Commission has drawn up a list of 248 Projects of Interest (PCIs) Common under 8 corridors. The Baltic Energy Market Interconnection Plan in Gas is the 8<sup>th</sup> corridor under which a 543 km gas pipeline will be constructed to connect Poland Lithuania and (GIPL-Gas Interconnection Poland Lithuania).
- 77. Consider the following statements:
  - 1. Snakes are always at the end of a food chain.
  - 2. Some snakes are viviparous

Which of the statements given above is/are correct?

(b) 2 only

- (a) 1 only
- (c) Both 1 and 2 (d) Neither 1 nor 2
- 77. Ans: (b)

Sol: Snakes are not at the end of the food chain.



There are two ways snakes give birth to live young viviparous (no eggs) and ovoviviparous (egg retained inside the female's body) and both produce live and fully functional baby snakes.

- 78. An eastward traveller from India crossing the International Date Line, in order to get the correct day and time of the local area should turn his watch:
  - (a) forward
  - (b) forward and should move his day calendar backward
  - (c) backward
  - (d) backward and should move his day calendar forward

#### 78. Ans: (b)

Sol: As we cross International Date Line, we gain a day. Hence, as we move eastward, we should turn our watch forward and calendar backward.

79. Consider the following statements:

- 1. Red panda in its natural habitat is found in Eastern Himalayas.
- Gharial in its natural habitat is found in Bhitarkanika mangroves.

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



#### **79. Ans:** (a)

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**Sol:** The red panda also called lesser panda, red bear-cat, and red cat-bear, is a mammal native to the eastern Himalayas and southwestern China.

The gharial is one of three crocodilians native to India, the other two being the mugger crocodile and the saltwater crocodile. It is a fish-eating crocodile, is a crocodilian of the family Gavialidae, native to the northern part of the Indian Subcontinent. Today small populations of Gharials are present in Son River, Girwa River, the Ganges, Mahanadi river and the Chambal river. National Chambal Sanctuary is the only place in India where a large wild population of India's special crocodilian Gharial is found. Gharial is on the brink of extinction and falls in the critically endangered category.

- 80. Who among the following was the first Governor-General of Independent India?
  - (a) C. Rajagopalachari
  - (b) Rajendra Prasad
  - (c) Lord Mountbatten
  - (d) S. Radhakrishnan

#### 80. Ans: (c)

Sol: India and Pakistan acquired independence in 1947, but Governors-General continued to be appointed over each nation until republican constitutions were written. Louis Mountbatten, 1st Earl Mountbatten of Burma remained Governor-General of India for some time after independence, but the two nations were otherwise headed by native Governors-General.

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- 81. With reference to carbon dioxide, which of the following statements is/are correct?
  - 1. It is released from the interior of the Earth during volcanic eruption.
  - 2. It corrodes metal surfaces.
  - 3. It is required for the green plants for their survival.

Select the correct answer using the code given below

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

#### 81. Ans: (d)

**Sol:** Carbon dioxide exists in Earth's atmosphere as a trace gas at a concentration of about 0.04 percent (400 ppm) by volume. Natural sources include volcanoes, hot springs and geysers.

As part of the carbon cycle, plants, algae, and cyanobacteria use light energy to photosynthesize carbohydrate from carbon dioxide and water, with oxygen produced as a waste product.

Carbon dioxide reacts with water: CO2 + H2O --> HCO3- + H+ As the concentration of CO2 increases, so does the concentration of the H+ ion. This ion then react with Fe in metals: Fe + 2H+ --> 2H (atom) + Fe2+

As corrosion proceeds, the ferrous ions produced react with the bicarbonate ions to form ferrous carbonate. 82. A group of countries called G4 is often mentioned in the news as contenders for a permanent membership in the United Nations Security Council. Which of the following is *not* one of them?

(a) Brazil	(b) Germany
(c) Japan	(d) South Africa

#### 82. Ans: (d)

 Sol: The G4 nations comprising Brazil, Germany, India, and Japan are four countries which support each other's bids for permanent seats on the United Nations Security Council.

83. Turkey, which is frequently in the news, does not have a border with which of the following?

- (a) Romania(c) Georgia
- (b) Iran

(d) Bulgaria



Romania does not have a border with Turkey. Iran, Georgia, Bulgaria, Syria, Iraq, Iran and Armenia have their borders with Turkey. 84. Consider the following:

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- 1. Amino acids2. Fatty acids
- 3. Hormones 4. Vitamins

Which of the above can be the sources of cellular energy in a human body?

- (a) 1 and 2 only (b) 2 and 4 only
- (c) 3 and 4 only (d) 1, 2, 3 and 4
- 84. Ans: (a)
- Sol: Carbohydrates, lipids (fats), and proteins are the major constituents or nutrients of foods and serve as fuel for the human body. More specifically, it is the end products of digestion - which breaks down these macro nutrients into smaller nutrients – that are the true fuel sources for the body's 100 trillion cells. The major absorbed end products of food digestion are glucose (from carbohydrates); short, medium and long-chain fatty acids (from lipids); and amino acids (from protein). All three classes of these nutrients can serve as fuel sources for the mitochondria to produce cellular energy in the form of ATP.
- 85. What causes wind to deflect toward left in the southern hemisphere?
  - (a) Atmospheric temperature
  - (b) Earth's magnetic field
  - (c) Rotation of the Earth
  - (d) Atmospheric pressure

#### 85. Ans: (c)

- Sol: Due to Coriolis force winds in the northern hemisphere deflect to its right and in the southern hemisphere it deflects to its left. This is due to the rotation of the earth.
- 86. Which one of the following statementsabout Earth's diameter is true?
  - (a) Polar diameter slightly less than the equatorial diameter
  - (b) Polar and equatorial diameters are equal
  - (c) Polar diameter is longer than the equatorial diameter
  - (d) Polar diameter is half of the equatorial diameter

#### 86. Ans: (a)

- Sol: The equatorial diameter of Earth is 12,756 km, its polar diameter is 12,713 km.
- 87. Recently, the Interim Secretariat of the International Solar Alliance was inaugurated at :
  - (a) Gurgaon(b) Panipat(c) Vadodara(d) Visakhapatnam

#### 87. Ans: (a)

Sol: The Prime Minister of India Shri Narendra Modi, and the President of France Mr François Hollande, on 25<sup>th</sup>Jan jointly laid the foundation stone of the International Solar Alliance (ISA)



Headquarters and inaugurated the interim Secretariat of the ISA in National Institute of Solar Energy (NISE), Gwalpahari, Gurgaon.

- 88. With reference to Loktak lake, consider the following statements :
  - 1. Loktak is a freshwater lake in northeastern India.
  - 2. Loktak lake carries floating islands that are made up of decaying masses of Vegetation, soil and organic matter.

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

#### 88. Ans: (c)

- **Sol:** Loktak Lake is the largest freshwater lake in North -East India is famous for the (heterogeneous of phumdis mass vegetation, soil, and organic matters at various stages of decomposition) floating over it.
- 89. Mahatma Gandhi suspended Non-Cooperation Movement due to :
  - (a) Its taking violent turn
  - (b) Inadequate cooperation from people
  - (c) Disapproval of Congress
  - (d) III health of Mahatma Gandhi

#### 89. Ans: (a)

- Sol: The non-cooperation movement was withdrawn because of the ChauriChaura incident, which was taking a violent turn.
- 90. A warm-blooded animal is one which (a) has a fluctuating body temperature (b) does not lose heat to surroundings (c) absorbs heat from surroundings (d) has a constant body temperature

90. Ans: (d)

- Sol: Homeotherms (warm blooded) are animals that have a constant body by temperature regulating metabolic processes.
- Which of the following statements is/are 91. correct?
  - 1. Shale gas is extensively produced in Saudi Arabia and Kuwait
  - 2. Fracking technology used in the extraction of this gas requires large quantities of water.

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

#### 91. Ans: (b)

Sol: Shale gas is a natural gas that is found trapped within shale formations and has become an increasingly important source

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of natural the United gas in States.Hydraulic fracturing (also hydrofracturing, hydrofracking, fracking, fraccing) is а well-stimulation or technique in which rock is fractured by a pressurized liquid. The process involves the high-pressure injection of 'fracking fluid' (primarily water, containing sand or other proppants suspended with the aid of thickening agents) into a wellbore to create cracks in the deep-rock formations through which natural gas, petroleum, and brine will flow more freely. When the hydraulic pressure is removed from the well, small grains of hydraulic fracturing proppants (either sand or aluminium oxide) hold the fractures open.

- 92. 'TAPI' gas pipeline, sometimes mentioned in the news, is planned to be laid in:
  - (a) Turkey-Afghanistan-Pakistan-India
  - (b) Turkmenistan-Ajarbaijan-Pakistan-Iran
  - (c) Turkey-Ajarbaijan-Pakistan- Iran
  - (d) Turkmenistan- Afghanistan -Pakistan-India
- 92. Ans: (d)
- Sol: The Turkmenistan–Afghanistan– Pakistan–India Pipeline (TAPI), also known as Trans-Afghanistan Pipeline, is a natural gas pipeline being developed by the Asian Development Bank. The

pipeline will transport Caspian Sea natural gas from Turkmenistan through Afghanistan into Pakistan and then to India.



- 93. Consider the following:
  - 1. Palm civet
  - 2. Puma
  - 3. Cheetah

Which of the above is/are found in India in their natural habitat?

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

**93.** Ans: (a)

Sol: Asian palm civets are native to India, Nepal, Bangladesh, Bhutan, Myanmar, Sri Lanka, Thailand, Singapore, Peninsular Malaysia, Sabah, Sarawak, Brunei Darussalam, Laos, Cambodia, Vietnam, China, Philippines and the Indonesian islands of Sumatra, Java, Kalimantan, Bawean and Siberut.



Puma are found throughout Central and South America. In North America, however, hunting has reduced their range to isolated areas in Mexico, western U.S. wilderness areas, southern Florida and southwestern Canada

The cheetah also known as the hunting leopard, is a big cat that occurs mainly in eastern and southern Africa and a few parts of Iran.

- 94. Which of the following died of hunger strike in person?
  - (a) Bhagat Singh
  - (b) Bhupendranath Sanyal
  - (c) Chandra Shekhar Azad
  - (d) Jatin Das

#### 94. Ans: (d)

- Sol: In Lahore jail, Das began a hunger strike along with other revolutionary fighters, demanding equality for Indian political prisoners with those from Europe. Das's hunger strike started on 15 June 1929 and lasted 63 days. Jatin Das died on September 13, 1929.
- 95. Consider the following statements:
  - Governor of a State can reserve certain bills passed by the State Legislature for consideration of the President of India.

2. Governor of State can make the rules to conduct the business of State Government

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

#### **95.** Ans: (c)

Sol: According to Article 200 Governor of a state can reserve certain bills passed by the State Legislature for consideration of the President of India. According to Article 356 the Governor rules the state on the dictates of the Union Govt. and in the NG name of the President.

96. There is a growing concern about the release of a particular gas into the atmosphere form the permafrost of Arctic region. Which one of the following is that gas?

(a) Carbon monoxide

- (b) Ethane
- (c) Methane
- (d) Sulfur dioxide

#### 96. Ans: (c)

Sol: Arctic methane release is the release of methane from seas and soils in permafrost regions of the Arctic, due to deglaciation. While a long-term natural process, it may be exacerbated by global warming.

- 97. "RuPay", recently in the news, is the name of a :
  - (a) Debit card (b) Digital currency
  - (c) Super computer (d) Tax benefit

#### **97.** Ans: (a)

- Sol: RuPay is an Indian domestic card scheme conceived and launched by the National Payments Corporation of India (NPCI).It was created to fulfil the Reserve Bank of India's desire to have a domestic, open loop, and multilateral system of payments in India. RuPay facilitates electronic payment at all Indian banks and financial institutions, and competes with MasterCard and Visa in India.
- 98. Which of the following is/are among the main objective/objectives of G20 group of countries?
  - 1. Discussing key issues in the global economy
  - 2. Promoting international financial stability

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

#### **98.** Ans: (c)

**Sol:** G20 is an international forum for the governments and central bank governors from 20 major economies. It was founded

in 1999 with the aim of studying, reviewing, and promoting high-level discussion of policy issues pertaining to the promotion of international financial stability.

- 99. With reference to 'Seshachalam Biosphere Reserve', which of the following statements is/are correct?
  - 1. It is located in the Eastern Ghats
  - 2. It is a unique tropical rain forest

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

- **99.** Ans: (a)
- Sol: The Seshachalam Hills are hilly ranges part of the Eastern Ghats in southern Andhra Pradesh state, in southeastern India.Tropical rainforests of India are found in the Andaman and Nicobar Islands,the Western Ghats, which fringe the Arabian Sea, the coastline of peninsular India, and the greater Assam region in the north-east.
- 100. Which one of the following is located between France and the United Kingdom?(a) Cook Strait(b) Davis Strait
  - (c) Strait of Dover
  - (d) Strait of Gibraltar



#### 100. Ans: (c)

**Sol:** The Dover Strait is the strait at the narrowest part of the English Channel, marking the boundary between the Channel and North Sea, separating Great Britain from continental Europe.



- 101. Which of the following is associated with the issue of control and phase out of the use of ozone depleting substances?
  - (a) Bretton Woods Conference
  - (b) Doha Development Agenda
  - (c) Geneva II Conference
  - (d) Montreal Protocol

#### 101. Ans: (d)

**Sol:** The Montreal Protocol on Substances that Deplete the Ozone Layer (a protocol to the Vienna Convention for the Protection of the Ozone Layer) is an international treaty designed to protect the ozone layer by phasing out the production of numerous substances that are responsible for ozone depletion.

- 102. Consider the following statements:
  - 1. Headquarters of World Trade Organization (WTO) are in Doha
  - 2. World Intellectual Property Organization is a specialized agency of WTO

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

#### **102.** Ans: (d)

Sol: The WTO's current Director-General is Roberto Azevedo, who leads a staff of over 600 people in Geneva, Switzerland. WIPO is the global forum for intellectual property services, policy, information and cooperation. It is a self-funding agency of the United Nations, with 188 member states.

103. What is 'Falcon 9', recently seen in news?

- (a) A rocket to deliver satellites into orbit
- (b) A short range missile launched from warships
- (c) An unmanned fighter aircraft
- (d) An astronomical space observatory



#### **103.** Ans: (a)

Sol: Falcon 9 is a two-stage rocket designed and manufactured by SpaceX for the reliable and safe transport of satellites and the Dragon spacecraft into orbit.

#### 104. Consider the following statements:

- Earth receives the Sun's energy only at the infrared end of the spectrum
- 2. Earth reradiates the Sun's heat only as ultraviolet energy.

Which of the statements given above is/are correct.

(b) 2 only

(d) Neither 1 nor 2

- (a) 1 only
- (c) Both 1 and 2

#### **104.** Ans: (d)

- Sol: UV radiation makes up a very small part of the total energy content of the insulation; the visible range represents only 46-47% of the total energy received from the sun. The final 45% of the sun's total energy is in the near infra-red range. When sunlight strikes the Earth's surface, some of it is reflected back towards space as infrared radiation (heat).
- 105. Consider the following crop plants:
  - 1. Banana
  - 2. Potato
  - 3. Turmeric

Which of the above is/are propagated by vegetative methods?

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

#### **105.** Ans: (d)

- Sol: Banana, Potato, Turmeric don't have seeds in them and hence vegetative/asexual reproduction is the best method of propagation.
- 106. The Polavaram Irrigation Project, recently in the news, is located in:
  - (a) Andhra Pradesh (b) Karnataka
  - (c) Kerala (d) Tamil Nadu

#### **106.** Ans: (a)

- Sol: Polavaram Project is a multi-purpose irrigation project which has been accorded national project status by the central government. This dam across the Godavari River is under construction located in West Godavari District and East Godavari District in Andhra Pradesh state.
- 107. At which of the following places is the Marine National Park located?(a) Chandipur-on-sea(b) Jamnagar(c) Puducherry

  - (d) Visakhapatnam



#### **107.** Ans: (b)

- Sol: Marine National Park in the Gulf of Kutch is situated on the southern shore of the Gulf of Kachchh in the Jamnagar District of Gujarat state, India.
- 108. How many north-eastern States of India (West Bengal is not included) share its/their border with three other countries?
  - (b) Two (a) One
  - (c) Three (d) None

#### **108.** Ans: (b)

Arunachal Pradesh – borders with China, Sol: Bhutan, Myanmar Sikkimborders with Nepal, China. Bhutan



- 109. 'Fly ash', which can be used in making bricks, is emitted from:
  - (a) Burning of agricultural waste
  - (b) Burning of municipal solid waste
  - (c) Mining of aluminum and iron ores
  - (d) Thermal power plants

#### 109. Ans: (d)

- Sol: Fly ash, is one of the coal combustion products, composed of the fine particles that are driven out of the boiler with the flue gases.
- 110. Consider the following statements:
  - 1. Snowline occurs at a higher altitude in Eastern Himalayas than in the Western Himalayas.
  - 2. Mangrove forests in India occur along the coastal areas of West Bengal and Odisha only.
  - Which of the statements given above is /are correct?

(a) 1 only

(b) 2 only

(c) Both 1 and 21995

(d) Neither 1 nor 2

#### **110.** Ans: (d)

Sol: The climatic snow line is the point above which snow and ice cover the ground throughout the year. Tree line and snow line in Eastern Himalayas are higher than in the western Himalayas.

> Some of the best mangroves in the world occur in the alluvial deltas of Ganga,

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<ul> <li>Engineering Academy ::</li> <li>Godavari, Krishna, Kaveri and in the islands of Andaman and Nicobar.</li> <li>111. Which one among the following is known as the largest producer of steel in the world? <ul> <li>(a) Australia</li> <li>(b) China</li> <li>(c) India</li> <li>(d) South Korea</li> </ul> </li> <li>111. Ans: (b)</li> <li>Sol: In 2015, total world crude steel production was 1,599.5 million metric tonnes (mmt). The biggest steel producing country is</li> </ul>	<ul> <li>Manas Wildlife Sanctuary (1985)</li> <li>Nanda Devi and Valley of Flowers National Parks (1988)</li> <li>Sundarbans National Park (1987)</li> <li>Western Ghats (2012)</li> <li>113. Which of the following places have nuclear power plants?</li> <li>1. Amarkantak 2. Kaiga</li> <li>3. Rawatbhata 4. Visakhapatnam Select the correct answer using the code given below</li> </ul>
<ul> <li>currently China, which accounted for 50.3% of world steel production in 2015.</li> <li>112. Which of the following is/are World Heritage Properties as per UNESCO? <ol> <li>Bhitarkanika National Park</li> <li>Bandhavgarh National Park</li> <li>Sundarbans National Park</li> <li>Select the correct answer using the code given below?</li> </ol> </li> </ul>	<ul> <li>(a) 1 and 3 only</li> <li>(b) 2 and 3 only</li> <li>(c) 1, 3 and 4 only</li> <li>(d) 1, 2, 3 and 4</li> </ul> <b>113.</b> Ans: (b) <b>Sol:</b> Some of the nuclear power plants in India <ul> <li>Narora</li> <li>Uttar Pradesh</li> <li>Rawatbhata</li> <li>Rajasthan</li> <li>Tarapur</li> <li>Maharashtra</li> <li>Kudankulam</li> <li>Tamil Nadu</li> <li>Kaiga</li> <li>Generating</li> <li>Station</li> <li>(KGS),</li> <li>Karnataka</li> </ul>
(a) 1 and 2 only (b) 3 only (c) 2 and 3 (d) 1, 2, and 3 <b>112.</b> Ans: (b) Sol: List of Heritage sites in India national parks: Great Himalayan National Park Conservation Area (2014) Kaziranga National Park (1985) Keoladeo National Park (1985)	<ul> <li>114. 'Wolf1061c', recently in news, refers to a/an:</li> <li>(a) Comet to which a space probe has been sent recently</li> <li>(b) Asteroid that flew past the earth recently</li> <li>(c) Galaxy closer to our galaxy</li> <li>(d) Exoplanet in the Goldilocks Zone around a red dwarf star</li> </ul>

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#### **114.** Ans: (d)

- Sol: Wolf 1061c or WL 1061c is an exoplanet orbiting within the habitable zone of the red dwarf star Wolf 1061 in the constellation Ophiuchus, about 13.8 light years from Earth, making it the closest known potentially habitable planet to Earth. The Goldilocks zone is an area of space in which a planet is just the right distance from its home star so that its surface is neither too hot nor too cold.
- 115. Consider the following countries:
  - 1. Namibia
  - 2. Syria
  - 3. Mozambique

Recently in which of the above countries has a lot of displacement of its/their citizens been caused due to civil war/terrorist violence?

(a) 1 and 2 only	(b) 2 only	
(c) 1, 2 and 3	(d) None	

#### 115. Ans: (b)

Sol: The Syrian civil war is an ongoing multisided armed conflict with international interventions taking place in Syria. International organizations have accused the Syrian government, ISIS and other opposition forces of severe human rights violations, with multiple massacres occurring. The conflict caused a considerable displacement of population.

116. Which one of the following rivers rises near Mahabaleshwar?

(a) Godavari	(b) Krishna
(c) Kaveri	(d) Tapi

#### **116.** Ans: (b)

- **Sol:** Krishna river originates in the Western Ghats near Mahabaleshwar at an elevation of about 1,300 meter, in the state of Maharashtra in Central India.
- 117. Recently, India made a deal with Japan to introduce India's first high speed rail (bullet train) between:
  - (a) Ahmedabad and Mumbai
  - (b) Pune and Mumbai
  - (c) Ahmedabad and Delhi
  - (d) Chennai and Hyderabad

#### **117.** Ans: (a)

- Sol: The Mumbai–Ahmedabad high-speed rail corridor is an approved high-speed rail corridor project signed by India and Japan.
- 118. In Gandhara School of Art, the image of which of the following deities is a prominent feature?

(a) Buddha	(b) Krishna
(c) Mahavira	(d) Shiva



#### **118.** Ans: (a)

- **Sol:** Gandhara School of Art is known for the first sculptural representations of the Buddha in human form.
- 119. Which of the following, considered a carcinogen, is often secretively used by some for artificial fruit ripening?
  - (a) Calcium carbonate
  - (b) Calcium carbide
  - (c) Sodium benzoate
  - (d) Sodium sulfate
- **119.** Ans: (b)
- Sol: In the artificial ripening of fruit, calcium carbide is sometimes used as source of acetylene gas, which is a ripening agent similar to ethylene. However, this is illegal in some countries because consumption of fruits artificially ripened using calcium carbide can cause serious

health problems in those who partake them.

120. Which of the following is not a member of a group of countries known as G7?

(a) Australia (b) Canada

(c) France (c	l) Japan
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#### **120.** Ans: (a)

Sol: G7 is an international organization officially established in 1985 to facilitate economic cooperation among the world's largest industrial nations; summit meetings of the member nations began in 1975. Members are Canada, France, Germany, Great Britain, Italy, Japan, and the United States.