

UPPSC-AE
2024
Solutions

# **Engineering Aptitude**

**Questions & Answer Keys** 

Exam held on 20-04-2025

**Delhi Centre:** 44-A/1, Kalu Sarai, Near Hauz Khas Metro Station, New Delhi-110016 • Ph: 9021300500

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## ENGINEERING APTITUDE

**Detailed Solutions** 

Exam held on:

Q.2 Which King's title was 'The man with burnt legs'?  (a) Karikalan (b) Nalangiri (c) Nedul Jeral  Q.3 Match List-II with List-II and choose the correct answer from the codes given below the lists:  List-I (Inscription) A. Hathigumpha Inscription B. Mandsaur Inscription C. Aihole Inscription C. Aihole Inscription B. Mandsaur Inscription Codes:  A B C D  (a) 3 2 4 1  (b) 2 3 4 4  (c) 1 4 3 2 1  Ans. (c)  Article 17 of the Indian Constitution is related to: (a) End of Titles (b) Abolition of Untouchability (c) Equality before Law  Ans. (b)  Which one of the following is correctly matched?  (Painter) (Painter) (Ruler) (a) Manohar Akbar (b) Daswant (c) Fakirullah (d) Basawan  Ans. (c)  End of Solution  End of Solution  End of Solution  Akbar (b) Daswant (c) Fakirullah (d) Basawan  Aurangzeb  Ans. (c)	Q.1	Who invited Mahatma Gandhi to Char (a) J.B. Kripalani (c) Rajkumar Shukla	nparan regarding the Indigo cultivation? (b) Rajendra Prasad (d) Motilal Nehru
Q.2 Which King's title was 'The man with burnt legs'?  (a) Karikalan (b) Nalangiri (c) Nedul Jeral  (d) Duttagamani  Ans.  (a)  End of Solution  Q.3 Match List-I with List-II and choose the correct answer from the codes given below the lists:  List-I (Inscription) A. Hathigumpha Inscription B. Mandsaur Inscription C. Aihole Inscription C. Aihole Inscription C. Aihole Inscription C. Aikole Inscription C. Aihole Inscription C. Aihole Inscription Codes:  A. B. C. D.  (a) 3 2 4 1 1 (b) 2 3 4 4 4 (c) 1 4 3 2 (d) 4 3 2 1  Ans.  (c)  End of Solution  End of Solution  C.4 Article 17 of the Indian Constitution is related to:  (a) End of Titles (b) Abolition of Untouchability (c) Equality before Law (d) Freedom of Press  Ans.  (b)  C.5 Which one of the following is correctly matched?  (Painter) (A) Manohar (B) Daswant (C) Fakirullah (C) Fakirullah (C) Fakirullah (C) Fakirullah (C) Fakirullah (C) Basawan (C)  Ans.  (c)	Ans.	(c)	Ford of Colorina
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Ans. (c)		(c) Fakirullah	
		(d) Basawan	Aurangzeb
	Ans.	(c)	
			End of Solution



## ENGINEERING APTITUDE

**Detailed Solutions** 

Exam held on:

Q.6	Khond Movement (1846-55) was trabolition of which traditional practic	riggered due to the British Government's forcefuce of tribes?
	<ul><li>(a) Infant Sacrifice</li><li>(c) Animal Sacrifice</li></ul>	<ul><li>(b) Human Sacrifice</li><li>(d) None of the above</li></ul>
Ans.	(b)	
Q.7	In which Articles of the Constitution	of India have the provisions related to the electora
Q.1	process of the country been made	·
	(a) Articles 324 to 329	(b) Articles 333 to 334
	(c) Articles 334 to 339	(d) Articles 329 to 344
Ans.	(a)	
		End of Solution
Q.8	In which year did the Indian industria the "Padma Vibhushan Award"?	list Ratan Tata, who expired in the year 2024, receive
	(a) 2002	(b) 2008
	(c) 2012	(d) 2014
Ans.	(b)	
		End of Solution
Q.9	Udyami Vikas Abhiyan Yojana" laun (a) Class 5th	(b) Class 8th
	(c) Class 10th	(d) Class 12th
Ans.	(b)	
		End of Solution
Q.10	Which country honoured the Prime 2024?	Minister of India with "The Order of Excellence" in
	(a) Guyana	(b) France
	(c) Russia	(d) Egypt
Ans.	(a)	
		End of Solution
Q.11	The Indian government had launch stranded citizens. This operation was known as:	ed a rescue -operation in Ukraine to evacuate its
	<ul><li>(a) Operation Devi Shakti</li><li>(c) Operation Kaveri</li></ul>	<ul><li>(b) Operation Ganga</li><li>(d) Operation Bucharest</li></ul>
Ans.	(b)	
	· ·	End of Solution
		End of Solution



## ENGINEERING APTITUDE

**Detailed Solutions** 

Exam held on:

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	D.						
Ans. ——— Q.15	lists A. B.	: <b>List-</b> DNA Phos Cellu	<b>I (Ma</b> spholi Ilose	acrom	st-II and choo	se the corr 1. 2. 3. 4.	End of Solution ect answer from the codes given below the List-II (Examples) Energy Storage Cell Membranes Encode genes Cell Walls
Q.14	(a) (b) (c)	Aqua Sulp Hydr	a regi huric	a Acid oric Ac	ing acids ca	n melt gol	End of Solution
Ans.	(b)						End of Colution
Q.13	of ir (a)	ndep Saby	ender /asac	nt Ind	ia? kherjee	(b)	enure as the Chief Justice of Supreme Cour Y.V. Chandrachud K.G. Balakrishnan
Ans.	(a)						End of Solution
	(a) (b) (c)	Which of the following is not correctly matched?  (a) Article 155 Removal of the Governor  (b) Article 153 -Office of the Governor  (c) Article 156 Term of the Governor  (d) Article 154 Executive authority of the Governor					



### **ENGINEERING APTITUDE**

**Detailed Solutions** 

Exam held on:

Exam held on: **20-04-2025** 

Q.16 Given below are two statements, one is labelled as Assertion (A) and the other as Reason (R).

**Assertion (A):** Earth is the only planet known to have life.

Reason (R): Earth has an atmosphere which is a mixture of oxygen, nitrogen and carbon

Select the correct answer from the codes given below:

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (b) Both (A) and (R) are true, but (R) is not the correct explanation of (A).
- (c) (A) is true, but (R) is false.
- (d) (A) is false, but (R) is true.

Ans. (c)

**End of Solution** 

- On which date is 'World Heart Day' celebrated every year?
  - (a) 26th September

(b) 28th September

(c) 29th September

(d) 30th September

Ans. (c)

End of Solution

- Q.18 The first Bullet train in India, which is to run between Ahmedabad and Mumbai is being prepared with the help of which one of the following countries?
  - (a) France

(b) England

(c) Japan

(d) United States of America

Ans. (c)

End of Solution

- Q.19 The Muppandal-Perungudi area of Tamil Nadu is known for:
  - (a) Atomic power

(b) Solar power

(c) Hydro power

(d) Wind power

Ans. (d)

End of Solution

- Q.20 The correct order of mountain ranges from South to North is:
  - (a) Zaskar, Pir Panjal, Ladakh, Karakoram
  - (b) Karakoram, Zaskar, Pir Panjal, Ladakh
  - (c) Pir Panjal, Zaskar, Ladakh, Karakoram
  - (d) Pir Panjal, Ladakh, Zaskar, Karakoram

Ans. (c)

End of Solution



## ENGINEERING APTITUDE

**Detailed Solutions** 

Exam held on:

Exam held on: **20-04-2025** 

Q.21 In which state of India are the largest monazite deposits found? (a) Tamil Nadu (b) Kerala (c) Karnataka (d) Odisha Ans. (b) End of Solution Q.22 Given below are two statements, one is labelled as Assertion (A) and the other as Reason (R). Assertion (A): Deccan trap is deficient in ground water. Reason (R): Deccan trap has more than 1000 metre thick impenetrable basalt rock cover. Select the correct answer from the codes given below: (a) Both (A) and (R) are true and (R) is the correct explanation of (A). (b) Both (A) and (R) are true, but (R) is not the correct explanation of (A). (c) (A) is true, but (R) is false. (d) (A) is false, but (R) is true. Ans. (a) **End of Solution** Q.23 Which of the following protozoa is known as the "Grand old man of Intestine"? (a) Giardia (b) Arcella (c) Diffusia (d) Radiolaria Ans. (a) End of Solution Q.24 Which of the following is the chemical nature of enzymes? (a) Lipid (b) Carbohydrate (c) Protein (d) Vitamin Ans. (c) End of Solution Q.25 Which of the following coal producing area is not located in Chhattisgarh? (a) Sonhat (b) Chirimiri (c) Jhilimili (d) Barjora Ans. (d) End of Solution



## ENGINEERING APTITUDE

**Detailed Solutions** 

Exam held on:

Q.26	'जब तक जीना तब तक सीना' लोकोक्ति	का अर्थ है :	
	(a) अवकाश का अभाव होना		
	(b) विवशता का अनुभव होना		
	(c) जीते जी कोई—न—कोई काम—धंधा क	रना पड़ता है	
	(d) आजीविका के लिए भटकना पड़ता है	÷	
Ans.	(c)		End of Solution
Q.27	किस वाक्य में विशेषण का प्रयोग है?		Ena or Solution
	(a) लड़का आया।		
	(b) लड़का चला गया।		
	(c) मैंने बुलवाया।		
	(d) तब वह लड़का आया।		
Ans.	(d)		
Q.28	'नौकर लकड़ी काटता है।' यह वाक्य कि	न्स वाच्य का उदाहरण है?	End of Solution
	(a) कर्त्वाच्य	(b) कर्मवाच्य	
	(c) भाववाच्य	(d) इनमें से कोई नहीं	
Ans.	(a)		
			End of Solution
Q.29	जिस विकारी शब्द के प्रयोग से किसी	वस्तु के विषय में विधान किया	जाता है, उसे
	कहते हैं :		
	(a) क्रिया	(b) कारक	
	(c) उपसर्ग	(d) संज्ञा	
Ans.	(a)		End of Solution
Q.30	जिस पदार्थ पर कर्ता की क्रिया का फल	पड़े, उसे कहते हैं :	Ena or Solution
	(a) कर्ताकारक	(b) कर्मकारक	
	(c) करणकारक	(d) सम्प्रदानकारक	
Ans.	(b)		
			End of Solution



## ENGINEERING APTITUDE

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Q.31	'चरणकमल' में समास है :		
	(a) कर्मधारय समास	(b) तत्पुरुष समास	
	(c) द्विगु समास	(d) द्वन्द्व समास	
Ans.	(a)		
O 22	'साँझ' शब्द का तत्सम रूप है :		End of Solution
Q.32	साझ शब्द का तत्सम रूप ह . (a) शाम	(b) संध्या	
	(c) सायंकाल	(d) संझा	
		(a) (1411	
Ans.	(b)		End of Solution
O 33	'तद्भव' शब्द का सन्धि–विच्छेद है :		Ena or solution
4.00	(a) तत् + भव	(b) तत्त + भव	
	(c) तद् + भव	(d) तक + भव	
Ans.	(a)		
			End of Solution
Q.34	'आपबीती' समस्त पद में कौन–सा समास	है?	
	(a) अव्ययीभाव	(b) कर्मधारय	
	(c) तत्पुरुष	(d) द्वन्द्व	
Ans.	(c)		
			End of Solution
Q.35	9		
	(a) कालीदास	(b) कालिदास	
	(c) कालियदास	(d) कलिदास	
Ans.	(b)		
0.26	निम्नलिखित में तालु से उच्चरित वर्ण है		End of Solution
Q.36			
	(a) घ (c) ज	(b) ਰ (d) ਵ	
		(U) 4	
Ans.	(c)		

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## ENGINEERING APTITUDE

**Detailed Solutions** 

Exam held on:

Exam held on: **20-04-2025** 

Q.37	इनमें 'पंगत' का तत्सम शब्द कौन- (a) पंक्ति	-सा है? (b) पांगत	
	(c) पंक्तियाँ	(d) पांक्ति	
Ans.	(a)		
2.00	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	_ \	End of Solution
Q.38	निम्नलिखित में शुद्ध वर्तनी का शब् (a) कवियत्री	६ ह : (b) कवियित्री	
	(a) फापयत्र। (c) किवत्री	(b) कापायत्रा (d) कवयित्री	
Ans.	(d)	(u) 4741471	
	(4)		End of Solution
Q.39	'दोपहर के बाद का समय' अनेक	शब्दों के स्थान पर एक शब्द है :	
	(a) पूर्वाह	(b) मध्याह	
	(c) अपराह्न	(d) गोधूलि	
Ans.	(c)		
Q.40	विद्यापति किस भाषा के कवि हैं?		End of Solution
Q.40	(a) अवधी	(b) मैथिली	
	(c) ब्रजभाषा	(d) बघेली	
Ans.	(b)	(-)	
	V-7		End of Solution
Q.41	निम्नलिखित में से कौन–सा कथन	असत्य है?	
	(a) भरतमुनि ने मूलतः आठ रसों	की परिकल्पना की थी।	
	(b) भयानक रस का स्थायी भाव		
	(c) संचारी भावों की संख्या तैंतीस		
	(d) हास्य तथा श्रृंगार रस परस्पर	मित्र होते हैं।	
Ans.	(b)		- 1 (c 1 )
Q.42	संचारी भावों की संख्या है :		End of Solution
	(a) तैंतीस	(b) बत्तीस	
	(c) तेईस	(d) आढ	
Ans.	(a)		
			End of Solution

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### **ENGINEERING APTITUDE**

### **Detailed Solutions**

Exam held on:

Q.43	'तनय' शब्द का पर्याय है :		
	(a) पुत्री	(b) पुत्र	
	(c) पिता	(d) माता	
Ans.	(b)		
Alis.	(6)		End of Solution
_		J.	Ena or solution
Q.44	'विदेश में रहने वाले व्यक्ति' के लिए		
	(a) अंतेवासी	(b) प्रहरी	
	(c) प्रवासी	(d) प्रगल्भ	
Ans.	(c)		
			End of Solution
Q.45	निम्नलिखित शब्द—युग्मों में 'चंद्रमा' का	पर्यायवाची युग्म नहीं है :	
	(a) हिमांशु—सुधांशु	(b) राकेश—सुधाकर	
	(c) चंद्रिका—चाँदनी	(d) मृगांक—कलानिधि	
Ans.	(c)		
			End of Solution
Q.46	'कोप' शब्द का विलोम है :		
	(a) कृपा	(b) खेद	
	(c) प्रसन्नता	(d) आगत	
Ans.	(a)		
	. ,		End of Solution
Q.47	'जिसके समान कोई दूसरा न हो' अने	क शब्दों के स्थान पर एक शब्द है	:
٠	(a) अद्वितीय	(b) अनन्य	
	(c) अतुलनीय	(d) समरूप	
A		(3)	
Ans.	(a)		F 1 (5 1 ii
	30 3 3 3 3	<i>C</i> 2	_ End of Solution
Q.48	'आठ कनौजिए नौ चूल्हे' लोकोक्ति का		
	(a) आवश्यकता से अधिक	(b) मूर्खीं का बसेरा	
	(c) अलगाव की स्थिति	(d) बेतरतीब	
Ans.	(c)		
			End of Solution



## ENGINEERING APTITUDE

### **Detailed Solutions**

Exam held on:

Q.49	'तैर कर पार होने की इच्छा रखने वाला' (a) तस्कर (c) तटस्थ	अनेक शब्दों के स्थान पर एक शब्द है : (b) तितीर्षु (d) त्याज्य
Ans.	(b)	End of Solution
Q.50	निम्नलिखित में अशुद्ध वाक्य है :  (a) उसने दिन भर में नाटक पढ़ डाला।  (b) तुम कहाँ जा रहे हो?  (c) कल रात वर्षा नहीं हुई।  (d) वह क्रोध में भरकर बोला।	End of Solution
Ans.	(a)	Find of Collection
Q.51	The ratio of Young's Modulus of high (a) 0.5 (c) 1.5	tensile steel to that of mild steel is about:  (b) 1.0  (d) 2.0
Ans.	(b)	End of Solution
Q.52	Lack of toughness in a material implie (a) ductility (c) brittleness	
Ans.	<ul> <li>(c)</li> <li>Toughness is the ability of material to fracture.</li> <li>Lack of toughness → Brittleness</li> </ul>	absorb energy and plastically deform without
Q.53	The correct sequence of creep deformatis:  (a) Steady state, Transient Accelerate (b) Transient, Steady state, Accelerate (c) Transient, Accelerated, Steady state (d) Accelerated, Steady state, Transie	ation in a creep curve in order of their elongation  d ed te
Ans.	(b) Transient creep (primary creep) — Str Steady state creep (secondary creep) Accelerate creep (tertiary creep) — S	



## ENGINEERING APTITUDE

**Detailed Solutions** 

Exam held on:

(a) be reduced to half	from its original volume, the specific heat will (b) be doubled (d) increase four times
(c)	End of Solution
A cycle tyre bursts suddenly. What type (a) Isothermal (b) Adiabatic (c) Isochoric (d) Isobaric	
(b)	End of Solution
Which of the following represent a clos  (a) Boiler  (b) Universe  (c) Bomb calorimeter  (d) Centrifugal pump	
(c)	
	End of Solution  (b) 0.65 - 1.5% (d) 7 - 8%
	s alloys with carbon contents above 2.14 Wt% ontain between 3.0 and 4.5 Wt% carbon.
Polyvinyl Chloride (PVC) is a:  (a) Thermosetting material  (b) Thermoplastic material  (c) Elastoplastic material  (d) Rigid plastic material	End of Solution
(b) PVC is a thermocouple material.	
	(c) remain constant (c)  A cycle tyre bursts suddenly. What type (a) Isothermal (b) Adiabatic (c) Isochoric (d) Isobaric (b)  Which of the following represent a close (a) Boiler (b) Universe (c) Bomb calorimeter (d) Centrifugal pump (c)  Cast iron has carbon content of (a) 0.3 – 0.6% (c) 2 – 4%  (c)  Generally cost irons are a class of ferrougin practice, however, most cost irons of Polyvinyl Chloride (PVC) is a: (a) Thermosetting material (b) Thermoplastic material (c) Elastoplastic material (d) Rigid plastic material (b)



### **ENGINEERING APTITUDE**

#### **Detailed Solutions**

Exam held on:

Exam held on: **20-04-2025** 

Q.59	66.6% risk is considered as: (a) Very low (c) Moderate	(b) Low (d) High	
Ans.	(d)		End of Solution
Q.60	Which of the following is a type of ne (a) Linear (c) Circular	twork topology? (b) Star (d) Square	Ena di Solution
Ans.	(b)		
Q.61	As per the Factories Act 1948, no child required to work in any factory.  (a) Eighteenth year  (c) Fourteenth year	d who has completed his/her _  (b) Sixteenth year  (d) Tenth year	End of Solution shall be
Ans.	(c)		
Q.62	The Lesson Learned meeting is usuall (a) During the execution phase (c) During budged planning	y conduced at which phase of (b) On project completion (d) During risk management	
Ans.	(b)		
Q.63	Which technique helps estimate duration (a) Checklist method (c) Brainstorming	ion and dependencies of task (b) SWOT analysis (d) PERT	End of Solution
Ans.	(d)		
Q.64	Yield of a reservoir represents:  (a) The inflow into the reservoir  (b) The capacity of the reservoir  (c) The outflow demand on the reserv  (d) None of the above	oir	End of Solution
	(c)		
Ans.			

Page



## ENGINEERING APTITUDE

### **Detailed Solutions**

Exam held on:

Exam held on: **20-04-2025** 

( )	<ul><li>(b) two weirs only</li><li>(d) two weirs and two regulators</li></ul>
(c)	End of Solution
	by a photon is inversely proportional to  (b) Wavelength
(c) Amplitude	(d) Albedo
(b)	
Energy of a photon = ${\text{Wav}}$	<u>hc</u> velength (λ)
	End of Solution
A dummy activity is used in 'PE	
	<ul><li>(b) Necessary time delay</li><li>(d) Resource idleness</li></ul>
, ,	(d) Hesself de laterioss
	RT Network to describe 'Precedence Relationship'.
	End of Solution
The ratio of rainfall in a particular	r year to the average annual rainfall (AAR) is called the
(a) Index of wetness	(b) Index of drought
(c) Index of average rainfall	(d) Index of yearly rainfall
(c) Index of average rainfall  (a)	
(a)	(d) Index of yearly rainfall  End of Solution
(a) Unit of duty of crop is:	End of Solution
	The amount of energy carried k  (a) Speed  (c) Amplitude  (b)  Energy of a photon = Way  A dummy activity is used in 'Pk  (a) Precedence relationship  (c) Resource restriction  (a)  A dummy activity is used in Pk  The ratio of rainfall in a particula  (a) Index of wetness

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### **ENGINEERING APTITUDE**

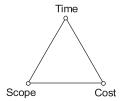
**Detailed Solutions** 

Exam held on:

Exam held on: **20-04-2025** 

- Q.70 The term "triple constraint" in project management traditionally consists of \_\_\_\_\_\_ of the project.
  - (a) cost, scope and quality
- (b) risk, resources and time
- (c) time, cost and scope
- (d) quality, risk and resources

Ans. (c)



End of Solution

- Q.71 Rate of evaporation in inversely proportional to:
  - (a) surface area

(b) temperature

(c) humidity

(d) wind speed

Ans. (c)

End of Solution

- Q.72 In a closed system, there is:
  - (a) no exchange of energy of the system.
  - (b) exchange of energy with the surroundings and not the mass.
  - (c) exchange of mass with the surroundings.
  - (d) exchange of mass and energy with the surroundings.

(b) Ans.

End of Solution

- Q.73 Work done is zero in constant \_\_\_\_\_ process.
  - (a) Pressure
  - (b) Volume
  - (c) Both pressure and volume
  - (d) Temperature

Ans. (b)

**End of Solution** 

- **Q.74** A unit hydrograph has one unit of:
  - (a) peak discharge

(b) rainfall duration

(c) direct runoff

(d) the time base of direct runoff

Ans. (c)

End of Solution

Page



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## ENGINEERING APTITUDE

### **Detailed Solutions**

Exam held on:

Exam held on: **20-04-2025** 

Q.75	Which parameter remains constant during reversible isothermal process?  (a) Rate of heat exchange  (b) Internal energy  (c) Enthalpy  (d) Entropy
Ans.	(b)
Q.76	In India, the tropical cyclones occur in the months of  (a) July - August  (b) May - June  (c) October - November  (d) Both May - June and October-November
Ans.	(d)
Q.77	The curve traced out by the end of a piece of thread unwound from a circle or a polygon, the thread being kept tight, is termed as  (a) Evolute (b) Involute (c) Archimedean Spiral  (d) Logarithmic Spiral
Ans.	(b)
Q.78 Ans.	The difference between the 1 primary scale division of the vernier and the 1 (one) vernier scale division is termed as  (a) Least count of vernier scale (b) Zero point on the vernier scale (c) Error quotient of the vernier scale (d) Correction factor of the vernier scale  (a)
Q.79	In third angle projection, the object is kept in:  (a) 1 <sup>st</sup> quadrant (b) 2 <sup>nd</sup> quadrant (c) 3 <sup>rd</sup> quadrant (d) 4 <sup>th</sup> quadrant
Ans.	(C)
Q.80	What is the purpose of a sectional view in engineering drawing?  (a) To display the external features of an object.  (b) To show the internal details of an object by cutting through it.  (c) To represent an object in a simplified form.  (d) To provide a perspective view of an object.
Ans.	(b)
	End of Solution

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## ENGINEERING APTITUDE

### **Detailed Solutions**

Exam held on:

Q.81	When the axis of solid is perpendicular and view then projected from		_ view should be drawn first
	(a) front, top (c) side, front	(b) top, side (d) top, front	
Ans.	(a)		End of Solution
Q.82	If a plane is inclined to both the reference  (a) auxiliary plane  (c) perpendicular plane	ence planes, then t (b) oblique plane (d) cross plane	
Ans.	(b)		End of Solution
Q.83	Cellulose is a polymer made from:  I. Glucose II. Glycogen III. Fructose IV. Sucrose Select the correct answer from the opt (a) Both I and II (c) Only III	tions given below: (b) Only I (d) Both III and I <sup>1</sup>	V
Ans.	(b)		
Q.84	In which year was 5G telecommunicat (a) 2021 (c) 2023	ions technology lau (b) 2022 (d) 2024	nched in India?
Ans.	(b)		
Q.85	Which technology is used in Crypto co (a) Artificial Intelligence (AI) (b) Blockchain (c) Machine Learning (ML) (d) 3D Printing	urrency?	End of Solution
	(b)		



## ENGINEERING APTITUDE

### **Detailed Solutions**

Exam held on:

	Dry ice is a solid. Which of the (a) Carbon monoxide (c) Carbon dioxide	<ul><li>(b) Nitrous oxide</li><li>(d) Lactic acid</li></ul>
Ans.	(c)	End of Solution
Q.87	If the Representative Fraction (F	RF) is 0.25 and the actual length of the object is 1.50 m
	(a) 375 cm (c) 3.75 cm	(b) 37.5 cm (d) 0.375 cm
Ans.	(b)	
Q.88	The Nobel Prize in Chemistry 2 (a) Pierre Agostini (c) Victor Ambros	023 has been awarded to: (b) Moungi Bawendi (d) Narges Mohammadi
Ans.	(b)	End of Solution
Q.89	The curing of concrete is the p (a) Strengthening it through hy (b) Filling the materials in the (c) Plastering the concrete surf (d) Applying distemper paint of	orocess of  dration.  left out depressions to make its surface smooth.  face.
Ans.	(a) Curing of concrete is the proce time to allow the concrete to a	ss of maintaining adequate moisture, temperature and chieve its desired strength.  End of Solution
	Which of the following metals h	
Q.90	(a) Copper (c) Silver	nas the lowest temperature coefficient of resistance?  (b) Aluminium  (d) Gold



### **ENGINEERING APTITUDE**

**Detailed Solutions** 

Exam held on:

Exam held on: **20-04-2025** 

Q.91	Mild	steel	helonas	to	the	category	of.
Q.31	IVIIIU	SIEEI	Deloi 193	ιO	uic	calegory	OI.

(a) no carbon steel

- (b) low carbon steel
- (c) medium carbon steel
- (d) high carbon steel

Ans. (b)

Mild steel is also known as low carbon steel.

End of Solution

#### Q.92 Which of these is **not** a function of alloy steels?

- (a) Improves ductility
- (b) Improves machinability
- (c) Increases strength
- (d) Reduces cost

Ans. (d)

Alloy steel improves m/c ability, ductility and strength.

**End of Solution** 

- Q.93 The constant of proportionality between elongation and axial force given by Hooke's Law
  - (a) Ultimate strength
- (b) Elastic limit

(c) Yield point

(d) Young's Modulus

Ans. (d)

Hooke's law states

Stress = Young's modulus × strain

$$F = \frac{EA}{L}$$

 $F = \text{axial force}; \Delta L = \text{elongation}$ 

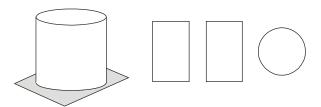
E = Young's modulus; A = Cross-sectional area

L = Original length

End of Solution

- Q.94 The front view, side view and top view of a cylinder standing on horizontal plane based on horizontal plane is:
  - (a) circle, rectangle and rectangle
- (b) rectangle, rectangle and circle
- (c) rectangle, circle and rectangle
- (d) circle, triangle and triangle

Ans. (b)



End of Solution



### **ENGINEERING APTITUDE**

### **Detailed Solutions**

Exam held on:

Exam held on: **20-04-2025** 

Q.95	Which of the following is <b>not</b> a properties  (c) Polymorphism properties	operty of engineering materials?  (b) Chemical properties  (d) Electrical properties	
Ans.	(c) Polymorphism is ability of materia	al to exist in one or more crystal	form.  End of Solution
Q.96	Phenology is the study of the relation (a) Physical phenomenon (c) Spatial phenomenon	tionship between climate and per (b) Chemical phenomenon (d) Biological phenomenon	
Ans.	(d)		End of Solution
Q.97	What is the effect of the greenhout (a) They cool down the Earth. (c) They block all solar radiation.	(b) They trap heat and warr	ere? m the Earth.
Ans.	(b)		Find of Columbian
Q.98	The National Action Plan on Climat in 2008 with a target to increase (a) 25% (c) 40%		
Ans.	(b)		
Q.99	Which type of battery is commonly udensity and efficiency?  (a) Alkaline  (c) Lithium ion	used in modern electric vehicles due (b) Microbial fuel cell (d) Lead acid	End of Solution e to its high energy
Ans.	(c)		
Q.100	The capacity of the handling/conprocessing unit of units.  (a) Match  (c) Be lower than	veying equipment should (b) Be higher than (d) Be different from	End of Solution _ the capacity of
Ans.	(b) Capacity of material handling mus (i) idle time, (ii) low efficiency	, <i>,</i>	ocessing to avoid
			End of Solution

Page



## ENGINEERING APTITUDE

### **Detailed Solutions**

Exam held on:

Q.101	Which of the following is not a type of (a) Flat (c) Telescopic	belt conveyor? (b) Metallic (d) Slate	
Ans.	(d) State conveyor is not a belt conveyor.	It carries SLATS not BELTS.	
			End of Solution
Q.102	As per CPCB guidelines, for the AQI r (a) Excellent (c) Poor	range of 201-300, the air quality (b) Good (d) Severe	will be:
Ans.	(c)		
			End of Solution
Q.103	The errors committed by a person in n  (a) Gross errors  (b) Random errors  (c) Instrumental errors  (d) Environmental errors	neasurements are:	
Ans.	(a)		
Q.104	A is a physical representation value is known with great accuracy.  (a) Scale  (b) Standard  (c) Least Count  (d) Unit	of the quantity under measureme	ent whose true
Ans.	(b)		
Q.105	In the SI system of measurements, the which is considered to be a fundament (a) Watt (W) (b) Joule (J) (c) Volt (V) (d) Ampere (A)		End of Solution unit of current
	(d)		
Ans.			



### **ENGINEERING APTITUDE**

### **Detailed Solutions**

Exam held on:

Exam held on: **20-04-2025** 

Q.106	The units whose sizes. independ  (a) Derived Units  (b) Fundamental Units  (c) Absolute Units	dently are called: cannot be cho	osen
	(d) Auxiliary Fundamental Units		
Ans.	(a)		
			End of Solution
Q.107	What is the coupling field used be conversion devices?  (a) Magnetic field only  (b) Electric field only  (c) Magnetic field or Electric field only  (d) None of the above		
Ans.	(c)		
			End of Solution
Q.106	When work is done on a body k  (a) Kinetic energy increases.  (b) Potential energy increases.  (c) Both kinetic and potential er  (d) Sum of kinetic energy and p	nergy increases.	
Ans.	(c)		
			End of Solution
Q.109	Which of the following static characters (a) Accuracy (b) Reproducibility (c) Sensitivity (d) Drift	aracteristic of instruments is unc	lesirable?
Ans.	(d)		
	\-/		End of Column
			End of Solution
Q.110	What is the core value that emph competence in professional pract	•	ping and maintaining
	(a) Ignorance	(b) Competence	
	(c) Mediocrity	(d) Negligence	
Ans.	(b)		
/ ti 10.	· ·		

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## ENGINEERING APTITUDE

### **Detailed Solutions**

Exam held on:

Q.111	What is the term of copyright  (a) Life of the author plus 20  (c) Life of the author plus 60	years (b) 99 years
Ans.	(c)	End of Solution
Q.112	Which is not the content of p (a) The field of invention and (b) Tile of the invention (c) Claims (d) Object of the invention are	provisional specification of a Patent? background
Ans.	(c)	
0 110	The deliberate manipulation of	End of Solution
Q.113	or claim is called:  (a) Falsification  (c) Salami Slicing	f data, result or images to support a particular hypothesis  (b) Fabrication  (d) Copyright
Ans.	(a)	
		End of Solution
Q.114	Intellectual Property Rights (IFI. Social value II. Ethical value III. Moral value IV. Commercial value Select the correct answer from (a) I, III and IV (b) IV only (c) II only (d) II and IV	PRs) protect the use of information and ideas that are by: m the options given below:
Ans.	(b)	
		End of Solution
Q.115	India Meteorological Department rainfall is deficient by	ent recognizes a year as a "Drought Year" when annual of normal or more.  (b) 10 percent  (d) 20 percent
Q.115 Ans.	rainfall is deficient by(a) 3 percent	nent recognizes a year as a "Drought Year" when annual of normal or more. (b) 10 percent



### **ENGINEERING APTITUDE**

### **Detailed Solutions**

Exam held on:

law that determines	the fluctuations of fraction d (b) Normal (d) Exponential	efective is:
ution describes the note trials. (Like inspecti	umber of defectives or succes ng items).	ses in a fixed number  End of Solution
certification of: rtification nagement System rtification ntal Management		
		F 1 (6 1 i)
d by	(b) Bacteria (d) DNA Virus	End of Solution
oes not comprise whication unication	nich one of the following com (b) Risk assessment (d) Risk harassment	End of Solution
derivative of: ect answer from the	options given below:	End of Solution



## ENGINEERING APTITUDE

### **Detailed Solutions**

Exam held on:

Q.121	(a) (b) (c)	Proc Prod	ess-c uct-o agem	riente riented nent to	d appro				
Ans.	(b)								
Q.122	<ul> <li>Consider the following statements:</li> <ol> <li>Sedimentation is conducted on a large scale in thickeners.</li> <li>Sorting classification separates the particles of differing densities Select the correct answer from the following:</li> <li>Only I is true.</li> <li>Only II is true.</li> <li>Both I and II are true.</li> <li>Neither I nor II is true.</li> </ol> </ul>								End of Solution
Ans.	(a)								End of Solution
Q.123	(a)	e pitc Radi Perin	US	a stan	ıdard s	(b	)	s equal to its Diameter Half of the perimeter	End of Solution
Ans.	(b)					·		·	
Q.124	A. B. C.	swer f List- Blue Itai-li Mina Lung	rom tom tom tom tome to the to	the come of syncores	odes gi <sup>,</sup> Diseas drome	ven below the I	lis	<b>List-II</b> (Causative Agent) Chromates	End of Solution  ose the correct
		des:		_	D				
		des: A	В	С					
			<b>B</b> 2	3	1				
	Со	<b>A</b> 4							
	(a)	<b>A</b> 4 1	2	3 3 2	1				
	(a) (b)	<b>A</b> 4 1 1	2	3 3	1				
Ans.	(a) (b) (c)	<b>A</b> 4 1 4	2 2 3	3 3 2	1 4 4				



## ENGINEERING APTITUDE

### **Detailed Solutions**

Exam held on:

Q.125	In fluid energy mill, must of the reduction is caused by:  (a) Interparticle attrition  (b) Compression  (c) Impact  (d) Cutting
Ans.	(a)
Q.126	The operator that enables the machine to understand the meaning of words and sentence in human language is known as:  (a) Semantics  (b) Syntax  (c) Interpretation  (d) Resolution
Ans.	(a) End of Solution
Q.127	Uncertainty can be represented by:  (a) Entropy  (b) Probability  (c) Fuzzy logic  (d) All of the above
Ans.	(d)
Q.128	Robots consist of three basic components: power supply, control (memory) console, an  (a) Microcomputer  (b) Co-axial cable  (c) Mechanical units (arms)  (d) Software
Ans.	(c)
Q.129	is considered a type of Artificial Intelligence agent.  (a) Simple Reflex Al agent  (b) Learning agent  (c) Goal-based Al agent  (d) All of the above
Ans.	(d)
	End of Solution



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## ENGINEERING APTITUDE

**Detailed Solutions** 

Exam held on:

Exam held on: **20-04-2025** 

Q.130 Which type of maintenance is most effective?

- (a) Preventive maintenance
- (b) Corrective maintenance
- (c) Shutdown maintenance
- (d) Breakdown maintenance

Ans. (a)

Preventive maintenance: Most effective reduces downtime, equipment life practice maintenance to prevent failures.

End of Solution

Q.131 The full form of IoT is:

- (a) Institute of Technology
- (b) Internet of Things
- (c) Index Organized Table
- (d) Inter-Operability Test

Ans. (b)

End of Solution

Q.132 Results based on incomplete or prejudiced data, produced by Al tools, are signified as:

(a) Al fairness

(b) Deep fake

(c) Robotics

(b) Al bias

Ans. (d)

End of Solution

Q.133 What is Machine Learning used in Artificial Intelligence?

- (a) To enable computers to solve problems without being explicitly programmed
- (b) To create databases for storing information
- (c) To control the hardware in robots
- (d) To improve human communication with robots

Ans. (a)

ML in AI is a technique that enables computers to learn from data and make decisions or predictions without being explicity programmed.

End of Solution

Q.134 Gasification of biomass is which type of conversion process?

(a) Chemical

(b) Biochemical

(c) Biological

(d) Thermochemical

Ans. (b)

**End of Solution** 



### **ENGINEERING APTITUDE**

**Detailed Solutions** 

Exam held on:

Q.135	The following type of energy is stored <ul><li>(a) Chemical Energy</li><li>(c) Thermal Energy</li></ul>	<ul><li>as latent heat:</li><li>(b) Mechanical Energy</li><li>(d) Electrical Energy</li></ul>	
Ans.	(c)		End of Solution
Q.136	The longest day and longest night dat  (a) 21 <sup>st</sup> September; 21 <sup>st</sup> March  (b) 21 <sup>st</sup> June; 21 <sup>st</sup> December  (c) 21 <sup>st</sup> June; 21 <sup>st</sup> March  (d) 21 <sup>st</sup> September; 21 <sup>st</sup> December	res are respectively:	
Ans.	(b)		
Q.137	Which process is responsible for the p (a) Nuclear fission reaction (c) Exothermal chemical reaction	(b) Nuclear fusion reaction	End of Solution
Ans.	(b)		
Q.138 Ans.	A barometer measures:  (a) Differential pressure  (c) Absolute pressure  (c)	(b) Gauge pressure (d) None of the above	End of Solution
A115.	(6)		End of Solutior
Q.139	The main combustible component of b (a) Butane (c) Methane	oiogas is: (b) Ethane (d) Carbon dioxide	
Ans.	(c)		
Q.140	Solar radiation flux is usually measured (a) Anemometer (b) Sunshine recorder (c) Pyranometer (d) None of the above	d with the help of:	End of Solution
Ans.	(c)		
			End of Solution



## ENGINEERING APTITUDE

**Detailed Solutions** 

Exam held on:

called: Focus Fracture	directly above the point where an earthquake oc  (b) Epicenter (d) Fault  End of Solution  OF) belongs to which family of natural hazards?	ution
called: Focus Fracture  acial Lake Outburst Flood (GL	(b) Epicenter (d) Fault  End of Solu  OF) belongs to which family of natural hazards? (b) Climatological	ution
Focus Fracture  acial Lake Outburst Flood (GL Meteorological	(d) Fault  End of Solu  OF) belongs to which family of natural hazards?  (b) Climatological	
acial Lake Outburst Flood (GL Meteorological	OF) belongs to which family of natural hazards? (b) Climatological	
Meteorological	OF) belongs to which family of natural hazards? (b) Climatological	
	(d) Hydrological	
unami warning centre in India Kolkata Ahmedabad	is located at:  (b) Hyderabad  (d) Mumbai	ution
nich of the following is a geolo Tsunami Flood		ution
nich energy is developed by gr Solar energy Thermal energy		
וו	Kolkata Ahmedabad  ich of the following is a geolo Tsunami Flood  ich energy is developed by gr Solar energy Thermal energy	Inami warning centre in India is located at:  Kolkata (b) Hyderabad  Ahmedabad (d) Mumbai   End of Solution of the following is a geological disaster?  Tsunami (b) Storm surge  Flood (d) Wild fire   End of Solution on the East Solar energy (b) Wind energy  Thermal energy (d) Tidal energy



### **ENGINEERING APTITUDE**

**Detailed Solutions** 

Exam held on:

(c) 4.75 × COP  (d) None of the above  Ans. (a)  End of Solution  Q.148 Ethanol can be blended with which of the following for use in engines?  (a) Diesel (b) Biodiesel (c) Petrol  (d) Edible oils  Ans. (c)  End of Solution  Q.149 Which gas is used as fire extinguisher? (a) Carbon dioxide (b) Oxygen (c) Nitrogen  (d) Methane  Ans. (a)  End of Solution  Q.150 As per the Disaster Management Act, 2005, the National Disaster Management Authority (NDMA) is headed by the  (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)	(c) 4.75 × COP  (d) None of the above  Ans. (a)  End of Solution  Q.148 Ethanol can be blended with which of the following for use in engines?  (a) Diesel (b) Biodiesel (c) Petrol  (d) Edible oils  Ans. (c)  End of Solution  Q.149 Which gas is used as fire extinguisher? (a) Carbon dioxide (b) Oxygen (c) Nitrogen  (d) Methane  Ans. (a)  End of Solution  C.150 As per the Disaster Management Act, 2005, the National Disaster Management Authoric (NDMA) is headed by the  (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)		1 75	COD
Ans. (a)  End of Solution  Q.148 Ethanol can be blended with which of the following for use in engines?  (a) Diesel (b) Biodiesel (c) Petrol (d) Edible oils  Ans. (c)  End of Solution  Q.149 Which gas is used as fire extinguisher? (a) Carbon dioxide (b) Oxygen (c) Nitrogen (d) Methane  Ans. (a)  End of Solution  End of Solution  Q.150 As per the Disaster Management Act, 2005, the National Disaster Management Author (NDMA) is headed by the (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)	Ans. (a)  End of Solution  Q.148 Ethanol can be blended with which of the following for use in engines?  (a) Diesel (b) Biodiesel (c) Petrol (d) Edible oils  Ans. (c)  End of Solution  Q.149 Which gas is used as fire extinguisher? (a) Carbon dioxide (b) Oxygen (c) Nitrogen (d) Methane  Ans. (a)  End of Solution  End of Solution  Q.150 As per the Disaster Management Act, 2005, the National Disaster Management Author (NDMA) is headed by the (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)		(a) $\frac{4.75}{COP}$	(b) $\frac{\text{COP}}{4.75}$
Q.148 Ethanol can be blended with which of the following for use in engines?  (a) Diesel (b) Biodiesel (c) Petrol (d) Edible oils  Ans. (c)  End of Solution  Q.149 Which gas is used as fire extinguisher? (a) Carbon dioxide (b) Oxygen (c) Nitrogen (d) Methane  Ans. (a)  End of Solution  End of Solution  End of Solution  Q.150 As per the Disaster Management Act, 2005, the National Disaster Management Authorical NDMA) is headed by the (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)	Q.148 Ethanol can be blended with which of the following for use in engines?  (a) Diesel (b) Biodiesel (c) Petrol (d) Edible oils  Ans. (c)  End of Solution  Q.149 Which gas is used as fire extinguisher? (a) Carbon dioxide (b) Oxygen (c) Nitrogen (d) Methane  Ans. (a)  End of Solution  End of Solution  End of Solution  Q.150 As per the Disaster Management Act, 2005, the National Disaster Management Authorical NDMA) is headed by the (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)		(c) 4.75 × COP	(d) None of the above
Q.148 Ethanol can be blended with which of the following for use in engines?  (a) Diesel (b) Biodiesel (c) Petrol (d) Edible oils  Ans. (c)  End of Solutio  Q.149 Which gas is used as fire extinguisher? (a) Carbon dioxide (b) Oxygen (c) Nitrogen (d) Methane  Ans. (a)  End of Solutio  Q.150 As per the Disaster Management Act, 2005, the National Disaster Management Authori (NDMA) is headed by the  (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)	Q.148 Ethanol can be blended with which of the following for use in engines?  (a) Diesel (b) Biodiesel (c) Petrol (d) Edible oils  Ans. (c)  End of Solutio  Q.149 Which gas is used as fire extinguisher? (a) Carbon dioxide (b) Oxygen (c) Nitrogen (d) Methane  Ans. (a)  End of Solutio  Q.150 As per the Disaster Management Act, 2005, the National Disaster Management Authori (NDMA) is headed by the  (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)	Ans.	(a)	End of Solution
Q.149 Which gas is used as fire extinguisher?  (a) Carbon dioxide (b) Oxygen (c) Nitrogen (d) Methane  Ans. (a)  End of Solution  End of Solution  End of Solution  O.150 As per the Disaster Management Act, 2005, the National Disaster Management Authoric (NDMA) is headed by the  (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)	Q.149 Which gas is used as fire extinguisher?  (a) Carbon dioxide (b) Oxygen (c) Nitrogen (d) Methane  Ans. (a)  End of Solutio  C.150 As per the Disaster Management Act, 2005, the National Disaster Management Authori (NDMA) is headed by the  (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)	Q.148	(a) Diesel	the following for use in engines ? (b) Biodiesel
Q.149 Which gas is used as fire extinguisher?  (a) Carbon dioxide (b) Oxygen (c) Nitrogen (d) Methane  Ans. (a)  End of Solution  Q.150 As per the Disaster Management Act, 2005, the National Disaster Management Authoric (NDMA) is headed by the  (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)	Q.149 Which gas is used as fire extinguisher?  (a) Carbon dioxide (b) Oxygen (c) Nitrogen (d) Methane  Ans. (a)  End of Solutio  Q.150 As per the Disaster Management Act, 2005, the National Disaster Management Authori (NDMA) is headed by the  (a) Home Minister (b) Environment Minister (c) Prime Minister (d) Cabinet Secretary  Ans. (c)	Ans.	(c)	
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		Q.150	(NDMA) is headed by the (a) Home Minister	(b) Environment Minister
End of Solutio	■■■	Ans.	(c)	
			••	Ena of Solution