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বাংলা

RRB NTPC 2024

eBook



INCLUDES

- Eligibility
- Vacancy Trend
- Cut Off Analysis
- Exam Pattern & Syllabus
- Previous Year Papers

RRB NTPC 2024 ডিকোডিং PDF

RRB NTPC কি?

RRB NTPC মানে রেলওয়ে রিক্রুটমেন্ট বোর্ড নন-টেকনিক্যাল পপুলার ক্যাটাগরি। এটি ভারতীয় রেলওয়েতে বিভিন্ন নন-টেকনিক্যাল পদের জন্য রেলওয়ে রিক্রুটমেন্ট বোর্ড (RRB) দ্বারা পরিচালিত একটি জনপ্রিয় নিয়োগ পরীক্ষা। টেবিলে উল্লিখিত পদে প্রার্থীদের নিয়োগের জন্য RRB NTPC পরীক্ষা পরিচালিত হয়।

RRB NTPC নিয়োগ 2024 পদ	
1. Junior Clerk cum Typist	7. Goods Guard
2. Accounts Clerk cum Typist	8. Senior Commercial cum Ticket Clerk
3. Junior Time Keeper	9. Senior Clerk cum Typist
4. Trains Clerk	10. Junior Account Assistant cum Typist
5. Commercial cum Ticket Clerk	11. Senior Time Keeper
6. Traffic Assistant	12. Commercial Apprentice
13. Station Master in various Zonal Railways and Production Units of Indian Railways	

RRB NTPC বিজ্ঞপ্তি 2024: ওভারভিউ

সংস্থা	রেলওয়ে রিক্রুটমেন্ট বোর্ড(RRB)
পরীক্ষার নাম	RRB NTPC
পদের নাম	NTPC (Junior Clerk cum Typist, Accounts Clerk cum Typist, Junior Time Keeper, Trains Clerk, Commercial cum Ticket Clerk, Traffic Assistant, Goods Guard, Senior Commercial cum Ticket Clerk, Senior Clerk cum Typist, Junior Account Assistant cum Typist, Senior Time Keeper, Commercial Apprentice and Station Master)
ভ্যাকেন্সি	11,558
RRB NTPC বিজ্ঞপ্তি 2024	02ই সেপ্টেম্বর 2024 (সংক্ষিপ্ত বিজ্ঞপ্তি/10 সেপ্টেম্বর 2024 বিস্তারিত প্রকাশ)
RRB NTPC পরীক্ষার তারিখ 2024	নভেম্বর/ডিসেম্বর 2024(প্রত্যাশিত)
আবেদনের মোড	অনলাইন
নির্বাচন প্রক্রিয়া	CBT-1 CBT-2 স্কিল টেস্ট ডকুমেন্ট ভেরিফিকেশন মেডিকেল টেস্ট

RRB NTPC ভ্যাকেন্সি ট্রেন্ড

বছর	ভ্যাকেন্সির সংখ্যা
2015	14023
2019	35281
2024	11558

RRB NTPC 2024 আন্ডার গ্রাজুয়েট পোস্টের জন্য ভ্যাকেন্সি

প্রার্থীরা RRB NTPC আন্ডার গ্রাজুয়েটের জন্য পোস্ট-ওয়াইজ ভ্যাকেন্সি নিচের টেবিলে দেওয়া হয়েছে।

	পদের নাম	মোট ভ্যাকেন্সি (সমস্ত RRB)
1	Junior Clerk cum Typist	990
2	Accounts Clerk cum Typist	361
3	Trains Clerk	72
4	Commercial cum Ticket Clerk	2022
	মোট	3445

RRB NTPC 2024 গ্রাজুয়েট পদের জন্য ভ্যাকেন্সি

RRB NTPC 2024 গ্রাজুয়েট পদের জন্য ভ্যাকেন্সি নিচের টেবিলে দেওয়া হয়েছে।

	পদের নাম	মোট ভ্যাকেন্সি (সমস্ত RRB)
2	Goods Train Manager	3144
3	Chief Commercial cum Ticket Supervisor	1736
4	Senior Clerk cum Typist	732
5	Junior Account Assistant cum Typist	1507
8	Station Master	994
	মোট	8113

RRB NTPC 2024 যোগ্যতা

RRB NTPC যোগ্যতা 2024, বয়স সীমা

RRB NTPC-এর ন্যূনতম বয়স সীমা হল 18 বছর। যোগ্যতা অনুযায়ী RRB NTPC বয়সসীমা নিচে আলোচনা করা হয়েছে।
উচ্চ মাধ্যমিক পাস:

বয়স গ্রুপ: 18-33 বছর

স্নাতক স্তরের পদ:

বয়স গ্রুপ: 18-36 বছর

বিভিন্ন বিভাগের জন্য বয়স শিথিলকরণ:

SC/ST: 5 বছর

OBC: 3 বছর

PWD (প্রতিবন্ধী ব্যক্তি):

UR: 10 বছর

OBC: 13 বছর

SC/ST: 15 বছর

RRB NTPC শিক্ষাগত যোগ্যতা 2024

Name of the Post	RRB NTPC Educational Qualification	
Commercial Apprentice	Degree from a recognized University or its equivalent	
Station Master		
Goods Guard		
Junior Accounts Assistant Cum Typist		
Senior Clerk Cum Typist		
Senior Commercial Cum Ticket Clerk		
Senior Time Keeper		
Traffic Assistant		
Commercial Cum Ticket Clerk		Class 12 or its equivalent with not less than 50% marks in the aggregate
Accounts Clerk Cum Typist		
Junior Clerk Cum Typist		
Junior Time Keeper		
Trains Clerk		

RRB NTPC মেডিকেল স্ট্যান্ডার্ড 2024

পদের নাম	মেডিকেল স্ট্যান্ডার্ড
Commercial Apprentice	B2
Station Master	A1
Goods Guard	A2
Junior Accounts Assistant Cum Typist	C2
Senior Clerk Cum Typist	C2
Senior Commercial Cum Ticket Clerk	B2
Senior Time Keeper	C2
Traffic Assistant	A2
Commercial Cum Ticket Clerk	B2
Accounts Clerk Cum Typist	C2
Junior Clerk Cum Typist	C2
Junior Time Keeper	C2
Trains Clerk	A3

আই স্ট্যান্ডার্ড

মেডিকেল স্ট্যান্ডার্ড	NTPC আই ক্রাইটেরিয়া
A-2	Distance Vision: 6/9 with or without glasses (No fogging test), Near Vision: Sn: 0.6, 0.6 with or without glasses, Must pass tests for Colour Vision, Binocular Vision, Night Vision, and Myopic Vision
A-3	Distance Vision: 6/9 with or without glasses (power of lenses not to exceed 2D), Near Vision: Sn: 0.6, 0.6 with or without glasses, Must pass tests for Colour Vision, Binocular Vision, Night Vision, and Myopic Vision
B-2	Distance Vision: 6/9, 6/12 with or without glasses (power of lenses not to exceed 4D), Near Vision: Sn: 0.6, 0.6 with or without glasses when reading or close work is

	required, Must pass tests for Field of Vision (Binocular Vision), etc.
C-2	Distance Vision: 6/12, 6/18 with or without glasses, Near Vision: Sn: 0.6 with or without glasses when reading or close work is required.

RRB NTPC 2024 নির্বাচন প্রক্রিয়া

RRB NTPC 2024 নির্বাচন প্রক্রিয়া চারটি পর্যায় নিয়ে গঠিত। নির্বাচন প্রক্রিয়ায় নিম্নলিখিত পর্যায়গুলি অন্তর্ভুক্ত রয়েছে:

- CBT এর প্রথম পর্যায়
- CBT এর দ্বিতীয় পর্যায়
- টাইপিং টেস্ট (স্কিল টেস্ট) / অ্যাপটিটিউড টেস্ট
- ডকুমেন্ট ভেরিফিকেশন
- মেডিকেল টেস্ট

- **First Stage of CBT (Prelims)**

- ↓

- **Second Stage of CBT (Mains)**

- ↓

- **Typing Test (Skill Test)**

- ↓

- **Document Verification**

- ↓

- **Medical Examination**

- ↓

- **Final Selection**

RRB NTPC 2024 আবেদন ফি

আসন্ন RRB NTPC নিয়োগ 2024-এর জন্য আবেদন করতে ইচ্ছুক প্রার্থীদের অনলাইন আবেদন প্রক্রিয়াটি সম্পূর্ণ করার জন্য তাদের যে পরিমাণ আবেদন ফি দিতে হবে সে সম্পর্কে সচেতন হওয়া উচিত। বিভাগ ভিত্তিক আবেদন ফি বিবরণ নীচের পয়েন্টে উল্লেখ করা হয়েছে।

- UR & OBC: Rs. 500/-
- 500 টাকার এই ফি থেকে, প্রথম পর্যায়ে CBT-তে উপস্থিত হওয়ার পরে, 400 টাকা যথাযথভাবে ব্যাঙ্ক চার্জ কেটে ফেরত দেওয়া হবে।
- SC/ST/প্রাক্তন কর্মী/PWDs/মহিলা ট্রান্সজেন্ডার সংখ্যালঘু অর্থনৈতিকভাবে অনগ্রসর শ্রেণী: Rs. 250/-
- প্রথম ধাপে CBT-তে উপস্থিত হওয়ার পরে, 250 টাকার এই ফি যথাযথভাবে ব্যাঙ্ক চার্জ কেটে ফেরত দেওয়া হবে।

RRB NTPC 2024 স্যালারি

নন-টেকনিক্যাল পপুলার ক্যাটাগরি রিক্রুটমেন্ট বা RRB NTPC হল রেলওয়ে রিক্রুটমেন্ট বোর্ড (RRB) দ্বারা পরিচালিত একটি জনপ্রিয় রেলওয়ে নিয়োগ পরীক্ষা। অফিসিয়াল বিজ্ঞপ্তির সাথে সাথে, RRB বিশদ RRB NTPC সিলেবাস প্রকাশ করে যাতে প্রার্থীদের পরীক্ষার প্রয়োজনীয়তা জানতে সাহায্য করে। RRB NTPC রেলওয়ের বিভিন্ন পদ যেমন অ্যাকাউন্টস ক্লার্ক কাম টাইপিষ্ট, কমাশিয়াল কাম টিকিট ক্লার্ক, জুনিয়র ক্লার্ক কাম টাইপিষ্ট, গুডস গার্ড ইত্যাদি অন্তর্ভুক্ত করে। RRB NTPC নন-টেকনিক্যাল পপুলার ক্যাটাগরিতে নিযুক্ত প্রার্থীদের 7 তম পে কমিশন অনুসারে স্যালারি প্রদান করে।

RRB NTPC CBT 1 পরীক্ষার প্যাটার্ন 2024

CBT 1 হল নির্বাচন প্রক্রিয়ার প্রথম পর্যায় এবং CBT 2 পর্যায়ে উপযুক্ত প্রার্থীদের বাছাই করার জন্য একটি স্ক্রীনিং পরীক্ষা হিসাবে পরিচালিত হয়। RRB NTPC-এর সিলেবাস অনুসারে, পর্যায় 1 পরীক্ষায় 90 মিনিটের মধ্যে 100টি প্রশ্ন রয়েছে। বিষয় ভিত্তিক পরীক্ষার প্যাটার্ন নিচে দেওয়া হল:

RRB NTPC CBT 1 Exam Pattern			
Sections	Number of Ques.	Maximum Marks	Duration
General Awareness	40	40	90 Minutes
Mathematics	30	30	
General Intelligence and Reasoning	30	30	
Total	100	100	

RRB NTPC CBT 2 পরীক্ষার প্যাটার্ন 2024

- PWD প্রার্থীদের জন্য পরীক্ষার সময়কাল 120 মিনিট।
- 1/3 এর নেগেটিভ মার্কিং আছে।

RRB NTPC CBT 2 Exam Pattern			
Sections	No. of Questions	Total Marks	Duration
Mathematics	35	35	90 minutes
General Intelligence and Reasoning	35	35	
General Awareness	50	50	
Total	120	120	

RRB NTPC সিলেবাস 2024

এই বিভাগে, প্রার্থীরা CBT 1 এবং CBT 2-এর অংশের বিষয়গুলির সম্পূর্ণ তালিকা খুঁজে পেতে পারেন। এই উভয় পর্যায়েই কিছুটা জেনারেল সিলেবাস রয়েছে। শুধুমাত্র পরীক্ষার সময়কাল এবং অসুবিধার স্তর প্রিলিম এবং মেইন জুড়ে পরিবর্তিত হয়।

CBT 1 -এর বিষয়ভিত্তিক সিলেবাস প্রার্থীদের রেফারেন্সের জন্য নিচের টেবিলে দেওয়া হয়েছে।

RRB NTPC EXAM Subjects (100 Marks)	Syllabus of RRB NTPC Topics
RRB NTPC Mathematics Syllabus (30 Marks)	<ul style="list-style-type: none">• Number System• Decimals• Fractions• LCM and HCF• Ratio and Proportions• Percentage• Mensuration• Time and Work• Time and Distance• Simple Interest and Compound Interest• Profit and Loss

	<ul style="list-style-type: none"> • Elementary Algebra • Geometry • Trigonometry
<p>RRB NTPC General Awareness Syllabus (40 Marks)</p>	<ul style="list-style-type: none"> • Current Events of National and International Importance • Monuments and Places of India • Games and Sports • Art and Culture of India • Indian Literature • Indian Polity and Governance- constitution and political system • General Science and Life Science (up to 10th CBSE) • History of India and Freedom Struggle • UN and Other important World Organizations • Physical Social and Economic Geography of India and the World • General Scientific and Technological Developments including the Space and Nuclear Program of India • Environmental Issues Concerning India and the World at Large • Basics of Computers and Computer Applications • Abbreviations • Indian Economy • Flagship Government Programs • Famous Personalities of India and the World • Important Government and Public Sector Organizations of India etc.
<p>RRB NTPC General Intelligence and Reasoning Syllabus (30 Marks)</p>	<ul style="list-style-type: none"> • Completion of Number and Alphabetical Series • Mathematical Operations • Relationships • Analogies • Analytical Reasoning • Syllogism • Data Sufficiency • Statement- Conclusion • Statement- Courses of Action • Decision Making • Coding and Decoding • Jumbling • Venn Diagrams • Puzzle • Interpretation of Graphs, etc.

RRB NTPC পর্যায় 2 সিলেবাস 2024

RRB NTPC Subjects (120 Marks)	RRB NTPC Exam syllabus Subject wise Topics
RRB NTPC General Awareness Syllabus (50 Marks)	<ul style="list-style-type: none">• Current Events of National and International Importance• Monuments and Places of India• Games and Sports• Art and Culture of India• Indian Literature• Indian Polity and Governance- constitution and political system• General Science and Life Science (up to 10th CBSE)• History of India and Freedom Struggle• UN and Other important World Organizations• Physical Social and Economic Geography of India and the World• General Scientific and Technological Developments including the Space and Nuclear Program of India• Environmental Issues Concerning India and World at Large• Basics of Computers and Computer Applications• Abbreviations• Transport Systems in India• Indian Economy• Flagship Government Programs• Flora and Fauna of India• Famous Personalities of India and the World• Important Government and Public Sector Organizations of India etc.
RRB NTPC Maths syllabus: Mathematics (35 Marks)	<ul style="list-style-type: none">• Number System• Decimals• Fractions• LCM and HCF• Ratio and Proportions• Percentage• Mensuration• Time and Work• Time and Distance• Simple Interest and Compound Interest• Profit and Loss• Elementary Algebra• Geometry• Trigonometry• Elementary Statistics, etc.

RRB NTPC Subjects (120 Marks)	RRB NTPC Exam syllabus Subject wise Topics
RRB NTPC General Intelligence and Reasoning Syllabus (35 Marks)	<ul style="list-style-type: none"> • Completion of Number and Alphabetical Series • Mathematical Operations • Similarities and Differences • Relationships • Analogies • Analytical Reasoning • Syllogism • Data Sufficiency • Statement- Conclusion • Statement- Courses of Action • Decision Making • Maps • Coding and Decoding • Jumbling • Venn Diagrams • Puzzle • Interpretation of Graphs, etc.

RRB NTPC পরীক্ষার সিলেবাস: History

RRB NTPC History Topics	Chapters of History
Ancient History of India	Pre-historic Period
	Harappan civilization
	The Vedic Civilization & Culture
	The emergence of Mahajanapadas & Magadh
	Religious Revolution
	The Mauryan Empire
	The Sangam Age
	The Gupta Empire
	Post-Gupta Period / Vardhana Dynasty
	India After Harsha
Medieval History of India	Rajput Age
	Sultanate Period
	The Vijayanagar Empire
	Sufi and Bhakti Movement
	The Mughal Empire
	Maratha State & Maratha Confederacy

RRB NTPC History Topics	Chapters of History
	Advent Of Europeans
Modern History of India	Expansion Of British Power
	Economic Impact Of British Rule
	Socio-Religious Movements in the 19th -20th Century
	Revolt of 1857
	Moderate, Extremist Phase Of Congress
	The Indian National Movements
	The Gandhian Era
	First Phase Of Independence

RRB NTPC পরীক্ষার সিলেবাস : Indian Polity

RRB NTPC Syllabus - Polity	
<ul style="list-style-type: none"> • Evolution of the Indian Constitution, • Constituent Assembly and Making of the Constitution, • Different Sources of the Indian Constitution, • Important Articles of the Constitution • Important Amendments of the Constitution • Some Special features of the Indian Constitution. • Federal and Unitary Features of the Indian Union • The preamble • Lapse of Paramountcy • Integration and Merger of Indian States • The Union and its Territories • Reorganization of States • Citizenship • Fundamental Rights • Directive Principles of State Policy • Fundamental Duties • The procedure of Amending the Constitution • Executive of the Union 	<ul style="list-style-type: none"> • The Supreme Court • The High Court • Inter-State Council • Finance Commission • Planning Commission • National Development Council • National Integration Council • Inter-State Relations • Emergency Provisions • Public Service Commissions • Election • Delimitation Commission of India • The Official Languages • National Symbols • The Parliament of India • Executive of the States • Special Position of J & K • Panchayats • Municipalities

RRB NTPC পরীক্ষার সিলেবাস :Geography

Geography Syllabus	
<ul style="list-style-type: none"> • The Solar System • Continents and Oceans • Biosphere, Lithosphere, Hydrosphere 	<ul style="list-style-type: none"> • The Indian Subcontinent, Position, extent, and physical features, • Climatic diversity in the Indian Sub-continent

Geography Syllabus

<ul style="list-style-type: none">• Latitudes and Longitudes• Different heat zones of the earth• Longitudes and time zones• International Date Line• The motion of the earth - Effect of the tilted axis on day and night• The Atmosphere (composition and layer of the Atmosphere)• Weather and Climate• Atmospheric Pressure• Internal Structure of the Earth• Rocks• Earthquakes and Volcanoes• Various Landforms (Mountains, Plateaus, Plains, Grasslands, Landforms created by the river system, Landforms created by a glacier, Landforms created by the action of wind, Landforms created by the actions of Groundwater)• Changed names• Continent earth area• Continents highest and lowest points• Three deepest oceans	<ul style="list-style-type: none">• Soil resources of the Indian sub-continent• Agriculture in India, Land use pattern of India• Water resources and their utilization in India• Multipurpose river valley projects• Transport in India• India-Facts and figures (States and their capitals, Population of India and states, Wildlife sanctuaries and national parks in India Important Irrigation and power projects, Indian satellites).• General introduction to Asia.• Geography of the Indian subcontinent Countries with their capitals and currency• Riverside cities• Wonders of the world• Countries and their main products and industries• Towns are associated with important industries.• Famous Sites (India), Famous Sites (World),• Highest mountain peaks (world)• Important boundary lines• Tribes and their homelands
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RRB NTPC পরীক্ষার সিলেবাস: Economics

Economics Syllabus

<ul style="list-style-type: none">• Highlights of the Indian Economy• Economy and Economics• Characteristics of the Indian Economy• Agriculture & Land Development• National Income• Planning• Unemployment• Trade & Commerce	<ul style="list-style-type: none">• Indian Fiscal System• Banking in India• Tax System• Industry• Foreign Trade• New Economic Policy• Indian Financial System
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RRB NTPC পরীক্ষার সিলেবাস : Science

Physics	Chemistry	Biology
<ul style="list-style-type: none">• Unit• Motion	<ul style="list-style-type: none">• Substance & its nature	<ul style="list-style-type: none">• Introduction• Classification of Organism

Physics	Chemistry	Biology
<ul style="list-style-type: none"> • Work Energy and Power • Gravitation • Pressure • Floatation • Surface Tension • Viscosity • Elasticity • Simple Harmonic Motion • Wave • Sound Wave • Heat • Light • Static Electricity • Current Electricity • Magnetism • Atomic & Nuclear Physics • Electronics • Scientific Instruments • Inventions • Important Discoveries Relating to Physics • Various Units of Measurement-Weight • Conversion of Units from one System to another System 	<ul style="list-style-type: none"> • Atomic Structure • Periodic Classification of Elements • Chemical Bonding • Oxidation & Reduction • Acids, Bases & Salts • Behavior of Cases • Electrolysis • Carbon & its Compounds • Fuels • Metallurgy • Important Facts About Some Metals • Non-Metals • Common Facts 	<ul style="list-style-type: none"> • Cytology • Genetics • Organic Evolution Botany: Classification of Plant Kingdom, Plant Morphology, Plant Tissue, Photo-synthesis, Plant Hormones, Plant Diseases, Ecology Pollution. • Zoology: Classification of Animal Kingdom, Animal Tissue • Human Blood • The system of the Human Body • Nutrients • Human Diseases

RRB NTPC 2024 কাট অফ

RRB NTPC 2015 Stage 1 Official Cutoff (Total Number of Vacancies: 18252)						
S.No.	Zone	General	OBC	SC	ST	No. of Candidates Shortlisted For 2nd Stage CBT (Approx. 15 Times)
1	Ahmedabad	72.86	64.91	57.23	48.1	17748
2	Ajmer	77.39	70.93	62.13	59.74	16321
3	Allahabad	77.49	70.47	62.85	47.02	42972
4	Bangalore	64.97	57.28	30.1	29	9088
5	Bhopal	72.9	66.31	58.61	51.16	17271
6	Bhubaneshwar	71.91	65.76	53.09	48.79	11551
7	Bilaspur	68.79	60.7	51.49	50.07	4530
8	Chandigarh	82.27	71.47	71.87	46.71	4567
9	Chennai	72.14	69.11	57.67	46.84	14642

RRB NTPC 2015 Stage 1 Official Cutoff (Total Number of Vacancies: 18252)						
S.No.	Zone	General	OBC	SC	ST	No. of Candidates Shortlisted For 2nd Stage CBT (Approx. 15 Times)
10	Gorakhpur	77.43	69.01	56.63	47.67	4756
11	Guwahati	66.44	57.11	52.53	52.91	6136
12	Jammu	68.72	50.88	52.27	38.05	2565
13	Kolkata	79.5	71.53	67.07	52.92	21123
14	Malda	61.87	48.42	43.11	31.89	4170
15	Mumbai	77.05	70.21	63.6	54.95	34019
16	Muzaffarpur	57.97	45.57	30.06	25	6873
17	Patna	63.03	53.57	38.55	26.69	10710
18	Ranchi	63.75	57.29	45.48	48.58	8431
19	Secunderabad	77.72	72.87	63.73	59.13	24271
20	Siliguri	67.52	56.26	54.31	45.9	4185
21	Thiruvananthapuram	79.75	75.1	56.14	36.45	7321

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RRB NTPC Previous Year Paper 01

Direction (1-3): Use the following passage for the questions based on it.

Rahul and Kusum are good in Hindi and Maths. Sameer and Rahul are good in Hindi and Biology. Gita and Kusum are good in Marathi and Maths. Sameer, Gita and Mihir are good in History and Biology.

Q1. Who is good in both Biology and Marathi?

- (a) Gita
- (b) Kusum
- (c) Sameer
- (d) Mihir

Q2. Who is good in only Hindi, Marathi and Maths?

- (a) Sameer
- (b) Rahul
- (c) Kusum
- (d) Gita

Q3. Who is good in Maths, Biology and Hindi?

- (a) Gita
- (b) Rahul
- (c) Sameer
- (d) Mihir

Q4. Given below is a statement followed by some conclusions. You have to take the given statement to be true even if it seems to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statement.

Statement:

Hrithik, in spite of his busy schedule, finds time to rest.

Conclusions:

- I. Hrithik is an organized person.
- II. Rest is the most important thing for a busy person.

Decide the right option from below.

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Both I and II follow
- (d) Neither of them follows

Q5. Which among the following is true for the given numbers?

- (a) $13/33 < 32/47 < 20/47 < 25/27$
- (b) $13/33 < 20/47 < 25/27 < 32/47$
- (c) $13/33 < 20/47 < 32/47 < 25/27$
- (d) $20/47 < 13/33 < 32/47 < 25/27$

Q6. The colour of solid iodine is–

- (a) White
- (b) Colorless
- (c) Purplish Grey to Black
- (d) Reddish Brown

Q7. Find the LCM of $25/7$, $15/28$, $20/21$.

- (a) $300/7$
- (b) 300
- (c) $320/23$
- (d) 320

Q8. Who was the last emperor of the Mauryan Dynasty?

- (a) Chandragupta
- (b) Ashoka
- (c) Brihadratha
- (d) Shatadhanvan

Q9. X is 5 ft tall and he notices that he casts a shadow that's 3 ft long. He then measures that the shadow cast by his school building is 30 ft long. How tall is the building?

- (a) 50 ft
- (b) 18 ft
- (c) 90 ft
- (d) 150 ft

Q10. 3 chairs and 2 tables cost Rs. 700 and 5 chairs and 3 tables cost Rs. 1100. What is the cost of 1 chair and 2 tables?

- (a) 350
- (b) 400
- (c) 500
- (d) 550

Q11. The LCM of two numbers is 210. If their HCF is 35 and one of the numbers is 105, find the other number.

- (a) 35
- (b) 70
- (c) 105
- (d) 140

Q12. Working alone, A can do a job in 15 days and B can do the same job in 18 days. In how many days will the job be completed if both work together?

- (a) 10/3 days
- (b) 90/11 days
- (c) 5/36 days
- (d) 15 days

Q13. In 2015, _____, a new species of the genus Homo was discovered in the Dinaledi Chamber of the Rising star cave system, Cradle of Humankind, South Africa.

- (a) Homo naledi
- (b) Homo erectus
- (c) Homo habilis
- (d) Homo rudolfensis

Q14. Given below is a statement followed by some conclusions. You have to take the given statement to be true even if it seems to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statement.

Statement:

All hard-working people are successful.

Conclusions:

I. All successful people are hard-working.

II. Only hard work can guarantee success in life.

Decide the right option from below.

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Both I and II follow
- (d) Neither of them follows

Q15. In a web browser, which of the following is used to save frequently visited websites?

- (a) History
- (b) Task Manager
- (c) Favorites
- (d) Save as

Q16. The Khajuraho Group of Monuments is a UNESCO World Heritage Site located in–

- (a) Madhya Pradesh
- (b) Uttar Pradesh
- (c) Uttarakhand
- (d) Chattisgarh

Q17. If '+' means \times , '-' means \div , ' \times ' means + and ' \div ' means - ; compute the value of the expression:

$$45-9+4\times 5$$

- (a) 21
- (b) 25
- (c) 26
- (d) 23

Q18. On which lake is the Golden Temple located?

- (a) Amrit Sarovar Lake
- (b) Golden Lake
- (c) Harike Lake
- (d) Sukhna Lake

Q19. If three numbers are in the ratio of 1:3:5 and their sum is 10,800. Find the largest of the three numbers.

- (a) 1200
- (b) 3600
- (c) 6000
- (d) 5400

Q20. If $A = 1$ and $PAT = 37$, then $PART =$

- (a) 55
- (b) 52
- (c) 51
- (d) 54

Q21. A positive number exceed its positive square root by 30. Find the number.

- (a) 16
- (b) 36
- (c) 25
- (d) 49

Q22. A car travels at the speed of 50 km/hr for the first half of the journey and at the speed of 60 km/hr for the second half of the journey. What is the average speed of the car for the entire journey?

- (a) 54.54 km/hr
- (b) 36.36 km/hr
- (c) 50.5 km/hr
- (d) 45.45 km/hr

Q23. In 2016, who has partnered with ISRO to use space technology for 'predictive policing'?

- (a) Delhi Police
- (b) Mumbai Police
- (c) Chennai Metropolitan Police
- (d) Kolkata Police

Q24. Which of the following technological inventions came first?

- (a) Telegraph
- (b) Telescope
- (c) Telephone
- (d) Teletype

Q25. Rita introduced Seema as her mother's father's only son's daughter. How is Rita related to Seema?

- (a) Cousin
- (b) Paternal Aunt
- (c) Niece
- (d) Maternal Aunt

Q26. Which art form was Mrinalini Sarabhai associated with?

- (a) Pattachitra
- (b) Tanjore Painting
- (c) Bharatnatyam
- (d) Madhubani Painting

Q27. Choose the pair which is related in the same way as the words in the first pair from the given choices.

INDIA: TIGER :: USA : _____

- (a) UNICORN
- (b) BALD EAGLE
- (c) TURUL
- (d) DRUK

Q28. The dimensions of a luggage box are 80 cm, 60 cm and 40 cm. How many sq. cm of cloth is required to cover the box?

- (a) 10400 sq. cm
- (b) 20800 sq. cm
- (c) 20400 sq. cm
- (d) 10200 sq. cm

Q29. The sum of digits of a two-digit number is 10. When the digits are reversed, the number decreases by 54. Find the changed number.

- (a) 73
- (b) 28
- (c) 82
- (d) 37

Q30. The incomes of A and B are in the ratio of 3:2 and their expenditures are Rs. 14,000 and Rs. 10,000 respectively. If A saves Rs. 4000, then B's savings will be:

- (a) Rs. 4000
- (b) Rs. 2000
- (c) Rs. 3000
- (d) Rs. 5000

Q31. Ganesh said, "Anjali is my paternal grandfather's only daughter-in law's only granddaughter". Ganesh is single and has only one sibling, i.e., an elder sister. How is Ganesh related to Anjali?

- (a) Maternal Uncle
- (b) Paternal Uncle
- (c) Cousin
- (d) Nephew

Q32. Which of the following type of rays does NOT penetrate Earth's atmosphere?

- (a) Visible Light
- (b) X-rays
- (c) Ultraviolet Rays
- (d) Radio Waves

Q33. Simplify: $(\frac{2}{9} + \frac{3}{5}) \div (\frac{2}{9} + \frac{2}{5})$

- (a) $\frac{37}{28}$
- (b) $\frac{47}{43}$
- (c) $\frac{43}{47}$
- (d) $\frac{41}{47}$

Q34. The first captain of the Indian Cricket team for One Day International was –

- (a) Ajit Wadekar
- (b) Sunil Gavaskar
- (c) Kapil Dev
- (d) C K Nayudu

Q35. The principle of regarding the beliefs, values, and practices of the culture from the viewpoint of that culture itself is called–

- (a) Cultural Functionalism
- (b) Cultural Relativism
- (c) Cultural Independence
- (d) Cultural Interdependence

Q36. Rearrange the following jumbled sentences to make a meaningful one:

P: are inhibiting progress

Q: they look for creative

R: rather than the conventional solution of outsourcing

S: solutions to problems that

The proper sequence should be:

- (a) SRQP
- (b) QSPR
- (c) PQRS
- (d) QRPS

Q37. P is twice as efficient as Q. Q takes 12 days to complete a job. If both of them work together, how much time will they take to complete the job?

- (a) 6 days
- (b) 5 days
- (c) 4 days
- (d) 3 days

Q38. In January 2016, Indian Defence Minister hoisted the world's largest tri-colour on the tallest flag-post at-

- (a) New Delhi
- (b) Jaipur
- (c) Ranchi
- (d) Leh

Q39. What is the median of the following list of numbers: 5, 3, 6, 9, 11, 19, and 1 ?

- (a) 5
- (b) 6
- (c) 9
- (d) 11

Q40. A sold a toy to B at a profit of 15%. Later on, B sold it back to A at a profit of 20%, thereby gaining Rs. 552. How much did A pay for the toy originally?

- (a) Rs. 2400
- (b) Rs. 2560
- (c) Rs. 2760
- (d) Rs. 2800

Q41. Which of the following is NOT a Greenhouse Gas?

- (a) Nitrous Oxide
- (b) Methane
- (c) Sulphur Hexafluoride
- (d) Copper Dioxide

Q42. On which festival did the Jallianwala Bagh Massacre take place?

- (a) Baisakhi
- (b) Guru Nanak Jayanti
- (c) Diwali
- (d) Holi

Q43. The 2016 World Economic Forum Annual Meeting took place in-

- (a) Germany
- (b) Switzerland
- (c) France
- (d) United Kingdom

Q44. Which of the following is NOT a computer virus?

- (a) AIDS
- (b) Anna Kournikova
- (c) Brain
- (d) Don

Q45. In the Republic of India, the administrative head of a Union Territory is–

- (a) Lieutenant Governor
- (b) Governor
- (c) President
- (d) Prime Minister

Q46. The Jayakwadi Project, which is one of the largest irrigation projects is on the river–

- (a) Godavari
- (b) Narmada
- (c) Krishna
- (d) Tapi

Q47. Which of the following is the largest glacier in India?

- (a) Gangotri Glacier
- (b) Drang Drung Glacier
- (c) Siachen Glacier
- (d) Shafat Glacier

Q48. Which was the first women's sport to be introduced in the Olympics?

- (a) Gymnastics
- (b) Volleyball
- (c) Golf
- (d) Badminton

Q49. A wire when bent in the form of a square encloses an area of 484 sq. cm. If the same wire is bent in the form of a circle, what is the area enclosed by it?

- (a) 264 sq. cm
- (b) 616 sq. cm
- (c) 488 sq. cm
- (d) 492 sq. cm

Q50. What will Rs. 40,000 amount to in 2 years at the rate of 20% p.a., if interest is compounded yearly?

- (a) Rs. 48,620
- (b) Rs. 58,564
- (c) Rs. 57,600
- (d) Rs. 60,000

Q51. How long will a sum of money take to double, if it is invested at 9.09% p.a. simple interest?

- (a) 12 years
- (b) 14 years
- (c) 11 years
- (d) 13 years

Q52. From 1337 to 1453, who were the main combatants in the Hundred Year's War?

- (a) Kingdom of Germany and Kingdom of France
- (b) Kingdom of Germany and Kingdom of Italy
- (c) Kingdom of France and Kingdom of Spain
- (d) Kingdom of England and Kingdom of France

Q53. A train crosses a stationary object in 10 seconds. What is the length of the train if the speed of the train is 25 m/s?

- (a) 300 m
- (b) 250 m
- (c) 320 m
- (d) 200 m

Q54. Google, in partnership with the Railway's telecom wing RailTel, introduced the first public Wi-Fi service at the _____ railway station.

- (a) Trivandrum Central
- (b) Mumbai Central
- (c) Howrah Station
- (d) Kanpur Central

Q55. If the pH value of a substance is lower than 7, it would be considered as-

- (a) Neutral
- (b) Base
- (c) Acid
- (d) Ion

Q56. In 2013, the first human liver was grown from stem cells in-

- (a) Japan
- (b) USA
- (c) Germany
- (d) France

Q57. Two poles of the height 12 m and 17 m stand vertically upright on a plane ground. If the distance between their feet is 12 m, find the distance between their tops.

- (a) 11 m
- (b) 12 m
- (c) 13 m
- (d) 14 m

Q58. In which state is the World Heritage Site 'Basilica of Bom Jesus' located?

- (a) Goa
- (b) Andhra Pradesh
- (c) Tamil Nadu
- (d) Kerala

Q59. If PLUTO = QKVSP, then SATURN=

- (a) TZUTSM
- (b) TATUTM
- (c) TZUTRO
- (d) RZUTSO

Q60. If P713 is divisible by 11, find the value of the smallest natural number P?

- (a) 5
- (b) 6
- (c) 7
- (d) 9

Q61. If '+' means \times , '-' means \div , ' \times ' means + and ' \div ' means - ; compute the value of the expression:
 $15 + 9 \times 10 \div 5$

- (a) 140
- (b) 190
- (c) 145
- (d) 130

Q62. Which of the following is NOT a rich source of Calcium?

- (a) Cheese
- (b) Collard Greens
- (c) Figs
- (d) Carrots

Q63. Pointing at a photograph, Ramesh said, "He is Rahul, my brother's son's only paternal uncle's wife's brother". How is Rahul related to Ramesh?

- (a) Brother-in-law
- (b) Brother
- (c) Cousin
- (d) Son

Q64. Who was the first Indian to become a Nobel Laureate?

- (a) Rabindranath Tagore
- (b) Mahatma Gandhi
- (c) C. V. Raman
- (d) Mother Teresa

Q65. Choose the pair which is related in the same way as the words in the first pair from the given choices.

OPHTHALMOLOGIST : EYE :: NEPHROLOGIST : _____

- (a) NERVOUS SYSTEM
- (b) LIVER
- (c) KIDNEY
- (d) STOMACH

Q66. Indian born Shiva Ayyadurai is associated with the invention of-

- (a) Email
- (b) Internet
- (c) Keyboard
- (d) Mouse

Q67. Below are given statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

Statements:

- A. All boys are monkeys.
- B. Some plants are monkeys.

Conclusions:

- I. Some monkeys are boys.
- II. All plants are boys.

Decide which of the below conclusions logically follows from the given statements.

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Both I and II follow
- (d) Neither of them follows

Q68. The average of 11 results is 50. The average of the first 6 results is 49 and that of the last 6 results is 52. What is the 6th result?

- (a) 48
- (b) 51
- (c) 56
- (d) 49

Q69. $5.36 \times 3.6 =$

- (a) 19.296
- (b) 18.946
- (c) 21.996
- (d) 20.26

Q70. Compute: $(18 + 2 \times 3.3) \div 0.003$

- (a) 11200
- (b) 5100
- (c) 8200
- (d) 1610

Q71. A ladder 10 m long is leaning against a vertical wall. It makes an angle of 60° with the ground. How far is the foot of the ladder from the wall?

- (a) 5 m
- (b) 8.66 m
- (c) 17.32 m
- (d) 15 m

Q72. Given below is a statement followed by some conclusions. You have to take the given statement to be true even if it seems to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statement.

Statement:

Sachin Tendulkar was the greatest batsman in Indian Cricket.

Conclusions:

I. There will be no other batsman greater than Sachin Tendulkar in Indian Cricket.

II. Sachin Tendulkar is the greatest batsman in the world.

Choose the right option from below

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Both I and II follow
- (d) Neither of them follows

Q73. In January 2016, the Union Cabinet approved the proposal of the Ministry of Power for amendments in the Tariff Policy with the focus on 4 Es. Which of the following is NOT a part of the 4 Es?

- (a) Electricity for all
- (b) Environment for sustainable future
- (c) Ease of doing business to attract investments
- (d) Ensuring affordable electrical goods to all

Q74. Choose the pair which is related in the same way as the words in the first pair from the given choices.

CRICKET : PITCH :: SKATING: _____

- (a) RINK
- (b) GROUND
- (c) COURT
- (d) RING

Q75. Below are two statements. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts.

Statements:

I. Some trees are buildings.

II. All buildings are parrots.

Decide which of the below conclusions logically follows from the given statements.

- (a) All parrots are trees
- (b) All parrots are buildings
- (c) Some parrots are buildings
- (d) No parrot is a tree

Q76. Re-location of endangered or rare species from their natural habitat to protected areas equipped for their protection and preservation is called–

- (a) Ex situ conservation
- (b) In situ conservation
- (c) Exile conservation
- (d) Escaped conservation

Q77. From which country is the 'Fundamental Duties' of the Indian Constitution borrowed?

- (a) UK
- (b) USA
- (c) USSR
- (d) Australia

Q78. In India, the highest cricket ground above sea level lies in which state?

- (a) Himachal Pradesh
- (b) Sikkim
- (c) Uttar Pradesh
- (d) Assam

Directions (79-81): Study the following table and answer the questions based on it.

Given below is the list of expenditures (in lakh rupees) per annum of Company Z over the years.

Year	Expenditure Items for Company Z				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
2011	412	227	15	133.4	98
2012	557	233	16.5	142.5	138
2013	656	245	17.3	151.6	174
2014	680	260	17.9	166.4	188
2015	720	284	18.5	179.4	198

Q79. What is the average amount of Bonus per year?

- (a) Rs. 17.04 Lakhs
- (b) Rs. 17 Lakhs
- (c) Rs. 17.4 Lakhs
- (d) Rs. 16.8 Lakhs

Q80. What is the total expenditure of Company Z in the year 2011?

- (a) Rs. 897.2 Lakhs
- (b) Rs. 827.5 Lakhs
- (c) Rs. 885.4 Lakhs
- (d) Rs. 727.1 Lakhs

Q81. What is the expenditure on Fuel and Transport as a percentage of expenditure on Salary for the year 2012?

- (a) 41.8%
- (b) 40.1%
- (c) 43.1%
- (d) 44.2%

Q82. The cost of 2 pencil, 4 pens and 8 erasers is Rs. 12 and the cost of 8 pens, 10 pencils and 4 erasers is Rs. 36. How much will 3 pencils, 3 pens and 3 erasers cost?

- (a) Rs. 10
- (b) Rs. 15
- (c) Rs. 12
- (d) Rs. 18

Q83. If BEAR = YVZI, then BUILDING =

- (a) ATHKCHMF
- (b) YFROWRMT
- (c) YFSWOSMR
- (d) ATHKCHMT

Q84. What is Geotropism?

- (a) Growth of plants in response to Gravity
- (b) Growth of plants in response to Sunlight
- (c) Growth of plants in response to Nutrients
- (d) Growth of plants in response to Water

Q85. If the cost price of 120 articles is equal to the selling price of 80 articles, find the profit percent.

- (a) 33.33%
- (b) 40%
- (c) 50%
- (d) 60%

Q86. In 2016, ISRO conducted 1st satellite-based warning system trial for Indian Railways in-

- (a) Mumbai
- (b) Ahmedabad
- (c) Kolkata
- (d) Delhi

Q87. In 1831, electricity became viable for use in technology when _____ created the electric dynamo.

- (a) Benjamin Franklin
- (b) Alessandro Volta
- (c) Michael Faraday
- (d) Thomas Edison

Q88. If RAILWAY is coded as 24-7-15-18-29-7-31 then how will you code STATION?

- (a) 25-24-7-24-15-21-19
- (b) 25-26-7-26-15-21-20
- (c) 25-24-8-24-15-21-19
- (d) 25-26-8-26-15-21-20

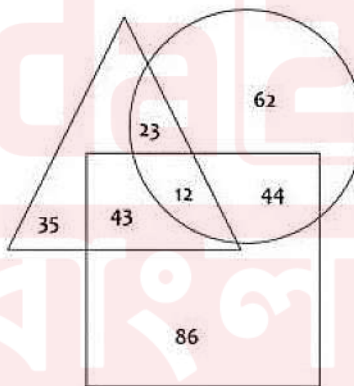
Q89. Select the correct set of symbols:

$$64\ 4\ 5\ 8 = 88$$

- (a) $\times, -, \div$
- (b) $+, \div, -$
- (c) $+, -, \div$
- (d) $\div, \times, +$

Direction (90-92): Study the diagram given below and answer the questions based on it.

- \triangle represents Students who have chosen Arts course
- \circ represents Students who have chosen Science course
- \square represents Students who have chosen Dance course



Q90. How many students have chosen the Science course?

- (a) 141
- (b) 185
- (c) 113
- (d) 145

Q91. How many students have chosen Dance course and Science course but not the Arts course?

- (a) 43
- (b) 44
- (c) 12
- (d) 23

Q92. How many students have chosen Arts course and Science course but not the Dance course?

- (a) 23
- (b) 12
- (c) 35
- (d) 44

Q93. When an object thrown straight upwards gets to the top of its path, its

- (a) Velocity is zero and its acceleration is zero
- (b) Velocity is zero and its acceleration is about 10 m/s^2
- (c) Velocity is 10 m/s and its acceleration is zero
- (d) Velocity is 10 m/s and its acceleration is about 10 m/s^2

Q94. Select the correct set of symbols:

$$21 \ 9 \ 13 \ 7 = 195$$

- (a) $\times, -, \div$
- (b) $+, \div, -$
- (c) $+, -, \div$
- (d) $\times, +, -$

Q95. Which of the following gases in air is responsible for the discoloration of Brass?

- (a) Hydrogen Sulphide
- (b) Carbon Dioxide
- (c) Nitrogen
- (d) Carbon Monoxide

Q96. Choose the one which is different or odd from the following.

- (a) Dal Lake
- (b) Sambhar Lake
- (c) Vembanad Lake
- (d) Wular Lake

Q97. What is the mode of the following list of numbers:

2, 4, 5, 6, 5, 4, 3, 5, 3, 1, and 7?

- (a) 3
- (b) 4
- (c) 5
- (d) 2

Q98. India's national motto, Satyameva Jayate (lit. "Truth alone triumphs"), is a mantra from the ancient Indian scripture–

- (a) Rigveda
- (b) Mundaka Upanishad
- (c) Bhagavad Gita
- (d) Matsya Purana

Q99. P bought an article for Rs. 400 and sold it at a profit of 10%. What would have been the increase in the profit percent if it was sold for Rs. 460?

- (a) 5%
- (b) 10%
- (c) 12%
- (d) 15%

Q100. In 2016, ISRO successfully launched its fifth navigation satellite called–

- (a) IRNSS 1D
- (b) IRNSS 1E
- (c) VELOX-C1
- (d) TeLEOS-1



RRB NTPC Previous Year Paper 01

S1. Ans.(a)

Sol.

	Hindi	Maths	Biology	Marathi	History
Rahul	1	1	1	×	×
Kusum	1	1	×	1	×
Sameer	1	×	1	×	1
Gita	×	1	1	1	1
Mihir	×	×	1	×	1

1 means person knows the language

× means person does not know the language

Gita is good at both Biology and Marathi

S2. Ans.(c)

Sol. Kusum is good at Hindi, Marathi & Maths

S3. Ans.(b)

Sol. Rahul is good at Maths, Biology & Hindi

S4. Ans.(d)

Sol. Neither of them follows, through statement we cannot conclude any of the conclusions

S5. Ans.(c)

Sol. $\frac{32}{47} > \frac{20}{47}$

$$\frac{25}{27} > \frac{13}{33}, \frac{25}{27} > \frac{32}{47}, \frac{25}{27} > \frac{20}{47}$$

$$\frac{20}{47} > \frac{13}{33} \text{ as } 20 \times 33 > 13 \times 47$$

combining all the equations we get

$$\frac{13}{33} < \frac{20}{47} < \frac{32}{47} < \frac{25}{27}$$

S6. Ans.(c)

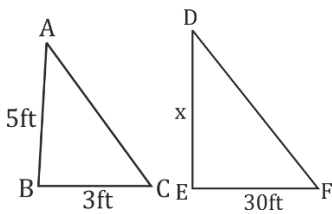
Sol. The halogens darken in colour as the group is descended: fluorine is a very pale yellow gas, chlorine is greenish-yellow, and bromine is a reddish-brown volatile liquid. Iodine conforms to the prevailing trend, being a shiny black crystalline solid that melts at 114 °C and boils at 183 °C to form a violet gas.

S7. Ans.(a)

Sol. LCM of $\left[\frac{25}{7}, \frac{15}{28}, \frac{20}{21}\right]$
 Is $\frac{\text{LCM of } [25, 15, 20]}{\text{HCF of } [7, 28, 21]} = \frac{300}{7}$

S8. Ans.(c)

Sol. Brihadratha was the last ruler of the Mauryan dynasty. He is assassinated by his commander-in-chief, Pushyamitra Shunga.

S9. Ans.(a)**Sol.**

$$\frac{5}{x} = \frac{3}{30} \Rightarrow x = 50 \text{ ft}$$

S10. Ans.(c)

Sol. $3c + 2t = 700$ _____ (i)

$5c + 3t = 1100$ _____ (ii)

$1c + 2t = ?$

Multiply (i) by 3 and (ii) by 2 we get.

$9c + 6t = 2100$

$10c + 6t = 2200$

Subtracting both we get

$c = \text{Rs } 100$

And $t = \text{Rs } 200$

$1c + 2t = \text{Rs } 500$

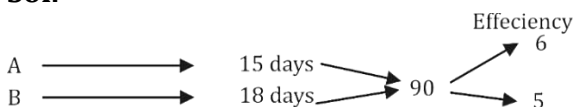
S11. Ans.(b)

Sol. the two numbers be 105, y

$\text{LCM} \times \text{HCF} = 105 \times y$

$210 \times 35 = 105 \times y$

$y = 70$

S12. Ans.(b)**Sol.**

Total work = 90

Total efficiency = 11

Time = $\frac{90}{11}$ days

S13. Ans.(a)

Sol. Homo Naledi was formally described in September 2015 by a 47-member international team of authors led by South African paleoanthropologist Lee Berger of the University of the Witwatersrand, who proposed that the bones represent a new Homo species.

S14. Ans.(d)

Sol. Neither of them follows,

**S15. Ans.(c)**

Sol. Favourite is used to save frequently visited websites in a web browser.

S16. Ans.(a)

Sol. The Khajuraho Group of Monuments is a group of Hindu temples in Chhatarpur, Madhya Pradesh, India.

S17. Ans.(b)

Sol. $45 \div 9 \times 4 + 5 = 25$

S18. Ans.(a)

Sol. Shaped as large rectangular tank, Amrit Sarovar makes the perfect hinterland for the holy Golden Temple (Harmandir Sahib Gurudwara) and is one of the most beautiful parts of the city of Amritsar.

S19. Ans.(c)

Sol. $1x + 3x + 5x = 10,800$

$x = 1200 \Rightarrow 5x = 6000$

S20. Ans.(a)

Sol.

$A = 1; PAT = 37, PART = 55$
 $\begin{array}{c} \diagup \quad | \quad \diagdown \\ 16 \quad 1 \quad 20 \end{array} \quad \begin{array}{c} \diagup \quad | \quad | \quad \diagdown \\ 16 \quad 1 \quad 18 \quad 20 \end{array}$

S21. Ans.(b)

Sol. $x = \sqrt{x} + 30$ _____ (i)

$x - 30 = \sqrt{x}$

Squaring both side we get

$X^2 + 900 - 60x = x$

$X^2 - 61x + 900 = 0$

$X^2 - 36x - 25x + 900 = 0$

$X = 36, 25$

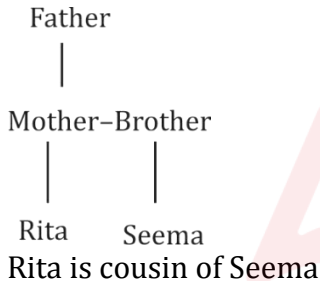
Only $x = 36$ satisfies (i)

S22. Ans.(a)**Sol.** Let the total distance = 2D

$$\frac{D}{50} + \frac{D}{60} = \text{Total time}$$

$$\text{Average speed} = \frac{2D}{\frac{D}{50} + \frac{D}{60}} = \frac{2 \times 50 \times 60}{110}$$

$$= \frac{600}{11} = 54.54 \text{ km/hr}$$

S23. Ans.(a)**Sol.** The Delhi Police will start using a 'predictive policing' mechanism in partnership with the Indian Space Research Organisation (ISRO).**S24. Ans.(b)****Sol.** Galileo made his first telescope in 1609. Samuel Morse independently developed and patented a recording electric telegraph in 1837. Alexander Graham Bell was awarded the first U.S. patent for the invention of the telephone in 1876. Teletype machines from the AP, UPI and Reuters, were invented in 1924, and phased out in the 1970s.**S25. Ans.(a)****Sol.****S26. Ans.(c)****Sol.** Mrinalini Sarabhai was an Indian Classical Bharatnatyam and Kathakali dancer.**S27. Ans.(b)****Sol.** Tiger is national animal of India Similarly bold eagle is national animal of USA**S28. Ans.(b)****Sol.** Surface area of box

$$= 2[80 \times 60 + 60 \times 40 + 40 \times 80]$$

$$= 2[4800 + 2400 + 3200]$$

$$= [10400]2 = 20800 \text{ cm}^2$$

S29. Ans.(b)**Sol.** $10x + y - 10y - x = 54$

$$9(x - y) = 54$$

$$x - y = 6$$

$$x + y = 10$$

From this we get $x = 8, y = 2$

Number = 28

S30. Ans.(b)

Sol. $\frac{3x - 14000}{2x - 10000}$

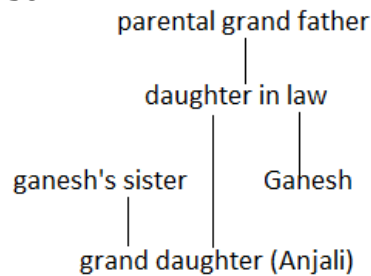
$3x - 14000 = 4000 \Rightarrow x = \text{Rs } 6000$

B's income = 2×6000

Saving of B = Rs 2000

S31. Ans.(a)

Sol.



S32. Ans.(b)

Sol. Fortunately for life on Earth, our atmosphere blocks out harmful high-energy radiation like x-rays, gamma rays and most of the ultraviolet rays. The atmosphere also absorbs most of the infrared radiation which reaches the Earth from space.

S33. Ans.(a)

Sol.

$$\frac{\frac{2}{9} + \frac{3}{5}}{\frac{2}{9} + \frac{2}{5}} = \frac{10 + 27}{10 + 18} = \frac{37}{28}$$

S34. Ans.(a)

Sol. First Captain for Indian ODI team is Ajit Wadekar (1974). First Captain for Indian T20 team is Virender Sehwag (2006).

S35. Ans.(b)

Sol. Cultural relativism is the idea that a person's beliefs, values, and practices should be understood based on that person's own culture, rather than be judged against the criteria of another.

S36. Ans.(b)

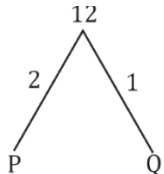
Sol. QSPR \rightarrow "They look for creative solutions to problems that are inhibiting progress rather than the conventional solution of outsourcing."

S37. Ans.(c)

Sol. P : Q = 2 : 1 [efficiency]

Q takes 12 days

P takes 6 days



Time taken by both = $\frac{12}{3} = 4$ days

S38. Ans.(c)

Sol. Indian Defence Minister Manohar Parrikar hoisted the world's largest tri-colour on the tallest flag-post at Ranchi's popular, Pahari Mandir, or 'Fansi Dugri'.

S39. Ans.(b)

Sol. Median = 1, 3, 5, 6, 9, 11, 19, Median = 6

S40. Ans.(a)

Sol. A → 100 – CP for A

B = 115 – CP for B

B sold it to A at a profit of 20%

$$20\% = \frac{1}{5}$$

SP – 6

CP – 5 → 115

$$SP = \frac{6 \times 115}{5} = 138$$

Gain for B = 138 – 115 = 23

23 → 552 ⇒ 1 → 24

100 → Rs 2400

S41. Ans.(d)

Sol. Copper dioxide is not a Greenhouse Gas.

S42. Ans.(a)

Sol. On the Jallianwala bagh massacre, around 50 troops of the British Indian Army, under the command of Colonel Reginald Dyer, fired rifles into a crowd of Baishakhi pilgrims, who had gathered in Jallianwala Bagh, Amritsar, Punjab.

S43. Ans.(b)

Sol. The World Economic Forum Annual Meeting 2016, Mastering the Fourth Industrial Revolution, will be held in Davos-Klosters, Switzerland 20 - 23 January 2016.

S44. Ans.(d)

Sol. Among the given options “Don” is not a computer virus.

S45. Ans.(a)

Sol. Lieutenant-Governor is the administrative head of a Union Territory.

S46. Ans.(a)

Sol. Jayakwadi irrigation project is located on Godavari river at the site of Jayakwadi village in Paithan taluka of Aurangabad district in Maharashtra State of India.

S47. Ans.(c)

Sol. Siachen Glacier is the largest glacier in India, located in Jammu and Kashmir. It is also the largest glacier outside the polar and the sub-polar regions.

S48. Ans.(c)

Sol. Women participated for the first time at the 1900 Paris Games with the inclusion of women's events in lawn tennis and golf.

S49. Ans.(b)

Sol. area of square = 484 sq cm

Side = 22 cm

Perimeter = 88 cm

$2\pi r = 88$

$R = 14$ cm

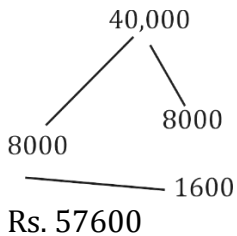
Area = $\pi \times 14^2$

$= \frac{22}{7} \times 14 \times 14$

$= 22 \times 28 = 616$ sq.cm

S50. Ans.(c)

Sol.



S51. Ans.(c)

Sol. $x = \frac{xRT}{100}$

$R=9.09\%$

$\frac{100}{9.09} = T \Rightarrow T = 11$ years

S52. Ans.(d)

Sol. The Hundred Years' War was fought between France and England during the late Middle Ages.

S53. Ans.(b)

Sol. length of train = $10 \times 25 = 250$ m

S54. Ans.(b)

Sol. Google introduced first free WiFi service at Mumbai Central station in January 2016.

S55. Ans.(c)

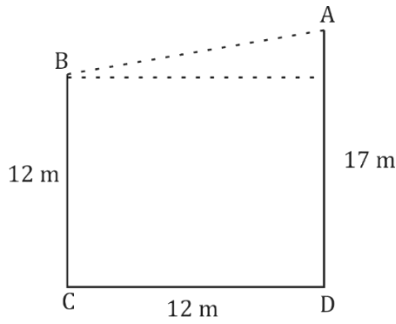
Sol. A pH of 7 is neutral. A pH less than 7 is acidic. A pH greater than 7 is basic.

S56. Ans.(a)

Sol. Tiny functioning human livers have been grown from stem cells in the laboratory by scientists in Japan.

S57. Ans.(c)

Sol.



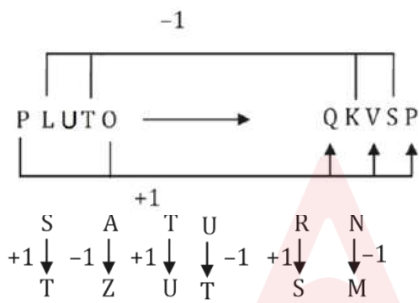
$$AB = \sqrt{12^2 + 5^2} = 13 \text{ m}$$

S58. Ans.(a)

Sol. The Basilica of Bom Jesus or Borea Jezuchi Bajilika is located in Goa, India, and is part of the Churches and convents of Goa UNESCO World Heritage Site.

S59. Ans.(a)

Sol.



S60. Ans.(d)

Sol. 9713 is divisible by 11

S61. Ans.(a)

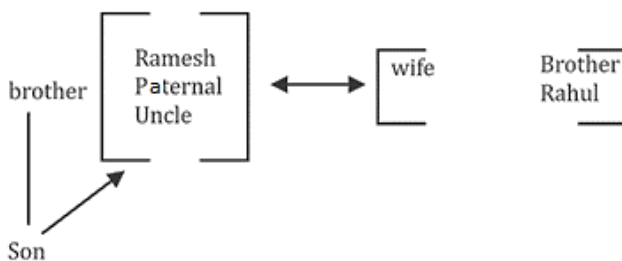
Sol. $15 \times 9 + 10 - 5 = 140$

S62. Ans.(d)

Sol. Carrots are rich in beta-carotene, which is converted to vitamin A in the body. Except Carrot all mentioned are rich source of Calcium.

S63. Ans.(a)

Sol.



Rahul is Brother in law to Ramesh

S64. Ans.(a)

Sol. Rabindranath Tagore was the first person of Indian origin and also first Asian to be awarded with the Nobel Prize. He received the prize for Literature in 1913.

S65. Ans.(c)

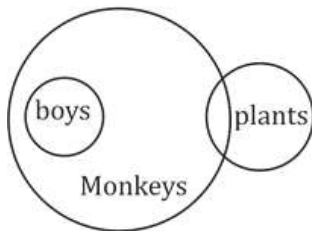
Sol. Ophthalmologist is related to Eye similarly Nephrologist is related to kidney

S66. Ans.(a)

Sol. Shiva Ayyadurai is associated with the invention of Email.

S67. Ans.(a)

Sol.



Only Conclusion 1 follows

S68. Ans.(c)

Sol. Sum of all = 50×11

Sum of first 6 = 49×6

Sum of last 6 = 52×6

6th term = $49 \times 6 + 52 \times 6 - 50 \times 11$
 $= 294 + 312 - 550 = 606 - 550 = 56$

S69. Ans.(a)

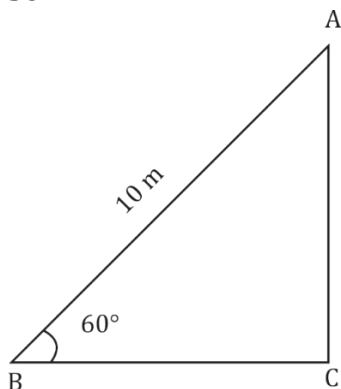
Sol. $5.36 \times 3.6 = 19.296$

S70. Ans.(c)

Sol. $\frac{18 + 2 \times 3.3}{0.003} = \frac{18 + 6.6}{0.003} = \frac{24.6 \times 1000}{3} = 8200$

S71. Ans.(a)

Sol.



Distance between B and C = $10 \cos 60 = 5$ m

S72. Ans.(d)

Sol. We cannot predict future from the past.

Through statement we get to know only about Indian cricket not of the world.

S73. Ans.(d)

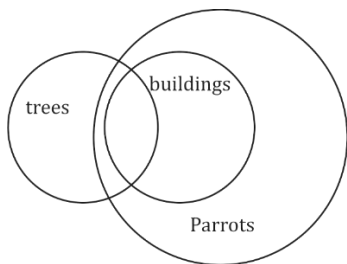
Sol. The revised Tariff Policy was notified by Ministry of Power on 28.01.2016 with a focus on '4 Es' i.e. Electricity for all, Efficiency to ensure affordable tariffs, Environment for a sustainable future, Ease of doing business to attract investments and ensure financial viability.

S74. Ans.(a)

Sol. Cricket is played on pitch similarly skating is played on Rink

S75. Ans.(c)

Sol.



A ×

B ×

C ✓

D ×

S76. Ans.(a)

Sol. Ex situ conservation literally means, "off-site conservation". It is the process of protecting an endangered species, variety or breed, of plant or animal outside its natural habitat.

S77. Ans.(c)

Sol. Fundamental duties are borrowed from Soviet Constitution (USSR, now Russia).

S78. Ans.(a)

Sol. Located at an altitude of 7,500 feet above sea-level, the Chail cricket ground in Himachal Pradesh is described to be the highest cricket ground in the world.

S79. Ans.(a)

Sol. Average Bonus = $\frac{15+16.5+17.3+17.9+18.5}{5}$
 $= \frac{85.2}{5} = 17.04$

S80. Ans.(c)

Sol. Total expenditure in 2011 = 885.4 laksh

S81. Ans.(a)

Sol. In 2012 = fuel and Transport = 233 lakhs

Salary in 2012 = 557 lakhs

$$\% = \frac{233}{557} \times 100 = 41.8\%$$

S82. Ans.(c)

Sol. $2p+4pe+8e=12$ _____(1)

$8p+10pe+14e=36$ _____ (2)

$3p+3pe+3e = ?$

Subtracting (1) from (2)

$8p+10pe+14e = 36$

$\underline{-2p+4pe+8e=12}$

$6p+6pe+6e=24$

$3p+3pe+3e=12$

S83. Ans.(b)

Sol. A B C D E F G H I J K L M

Z Y X W V U T S R Q P O N

BEAR → YVZI

BUILDING = YFROWRMT

S84. Ans.(a)

Sol. Geotropism is the growth of the parts of plants in response to the force of gravity. The upward growth of plant shoots is an instance of negative geotropism; the downward growth of roots is positive geotropism.

S85. Ans.(c)

Sol.

	Quantity
CP	120
SP	80

Ratio = 3:2

Amount = 2:3

Profit = 50%

S86. Ans.(b)

Sol. The first trial run for developing a satellite-based system to warn train drivers of unmanned railway crossings was conducted by ISRO scientists in Ahmedabad.

S87. Ans.(c)

Sol. The word "dynamo" was coined in 1831 by Michael Faraday, who utilized his invention toward making many discoveries in electricity (Faraday discovered electrical induction) and magnetism.

S88. Ans.(b)

Sol. R _____ $24 = 18+6$

A _____ $7 = 1+6$

I _____ $15 = 9+6$

L _____ $18 = 12+6$

W _____ $29 = 23+6$

A _____ $7 = 1+6$

Y _____ $31 = 25+6$

S = $19+6 = 25$

T = $20+6 = 26$

A = $1+6 = 7$

T = $20+6 = 26$

I = $9+6 = 15$

O = $15+6 = 21$

N = $14+6 = 20$

S89. Ans.(d)

Sol. $64 \div 4 \times 5 + 8 = 88$

S90. Ans.(a)

Sol. $62+44+12+23=141$

S91. Ans.(b)

Sol. 44

S92. Ans.(a)

S93. Ans.(b)

Sol. When an object thrown straight upwards gets to the top of its path, its Velocity is zero and its acceleration is about 10 m/s^2 .

S94. Ans.(d)

Sol. $21 \times 9 + 13 - 7 = 195$

S95. Ans.(a)

Sol. Brass gets discolored in air because of the presence of Hydrogen sulphide.

S96. Ans.(b)

Sol. The Sambhar Salt Lake, India's largest inland salt lake, is located 80 km southwest of the city of Jaipur and 64 km northeast of Ajmer, Rajasthan. All other are freshwater lakes.

S97. Ans.(c)

Sol. 1, 2, 3, 3, 4, 4, 5, 5, 5, 6, 7

Mode = highest frequency = 5

S98. Ans.(b)

Sol. "Satyameva Jayate" is a mantra from the ancient Indian scripture Mundaka Upanishad.

S99. Ans.(a)

Sol. CP for P= Rs 400

Profit =10%

SP = Rs 440

If sold at Rs 460

$$\text{New profit} = \frac{460-400}{400} \times 100 = \frac{60}{4} = 15\%$$

$$\text{Increase in profit \%} = (15-10)=5\%$$

S100. Ans.(b)

Sol. ISRO's Polar Satellite Launch Vehicle, PSLV-C31, successfully launched the 1425 kg IRNSS-1E, the fifth satellite in the Indian Regional Navigation Satellite System (IRNSS).

