BAILWAY TECHNICAL EXAM

- 1. Which of the following states of India has the longest coastline? (1) Kerala (2) Gujarat (3) Tamil Nadu (4) Andhra Pradesh 2. Where was the capital of Ranjit Singh, the king of Punjab, located ? (1) Peshawar (2) Amritsar (3) Lahore (4) Rawalpindi 3. The fundamental duties are enshrined in which Article of the Indian Constitution ? (1) Article 51 A (2) Article 50 A (3) Article 50 B (4) Article 51 B 4. The mineral structure of diamond is (1) Zine (2) Nickel (3) Nitrogen (4) Carbon 5. Which part of the body is affected by Jaundice ? (1) Small intestine (2) Liver (3) Stomach (4) Pancreas 6. Which country of the world has the largest number of post offices ? (1) France (2) China (3) India (4) Japan 7. Uttar Pradesh tops in the production of _____ in India. (1) sugar cane (2) rice (3) barley (4) wheat 8. The safe temperature to keep eatables Fresh in refrigerator is (1) 4°C (3) 18°C 9. The instrument used to measure the blood pressure of human body is
 - (1) Barometer (2) Actimeter
 - (3) Sphygmomanometer

 - (4) Tachometer
- 10. Automatic wrist watches get energy from

- (1) twist in spring (2) liquid crystal
- (3) kinetic energy
- (4) movement of our hands
- 11. When a television is switched
 - (1) We listen the sound first and then see the picture
 - (2) We see the picture first and then listen the sound
 - (3) It depends on the TV manufacturing company
 - (4) We get audio and visual at the same time
- 12. Goitre in human body is caused due to deficiency of (1) Iodine (2) Phosphorus (3) Nitrogen (4) Calcium
- 13. Who sent Huen Tsang as ambassador in the court of Harsha? (1) Fu Chen-Chu (2) Tai Sung (3) Tung Guan teria (4) None of these
- 14. Who wrote Akbarnama ? (1) Faizi (2) Abdul Rahim Khankhana (3) Abul Fazal (4) Abdul Kadir Badayun
- 15. Which metal is generally used to make electromagnets ? (1) Copper (2) Nickel (3) Iron =(4) Cobalt
- 16. Saina Nehwal of India won which medal in the women's singles badminton at the London Olympics in August 2012? (2) silver (3) gold (4) no medal
- 17. Dynamo converts (1) electrical energy into mechanical energy (2) high voltage into low voltage (3) low voltage into high voltage (4) mechanical energy into elec-
- 18. The instrument used to measure the electric current is (1) Barometer
 - (2) Altimeter

- (3) Ammeter
- (4) Anemometer
- 19. The best conductor of electricity is
 - (1) Aluminium (2) Copper
- 20. If the length of a rectangle is increased by 20% and its breadth is decreased by 20%, its area (1) increases by 4% (2) decreases by 4% (3) decreases by 1% (4) does not change
- 21. A train crosses two persons travelling at 3 kmph and 5 kmph in the same direction in 10 sectively. The speed of the train is
 - (1) 28 kmph (2) 27 kmph
 - (3) 25 kmph
 - (4) 24 kmph
- 22. A is 20% less skilled worman

complete a work, then what the work ? (1) 5 hours

(2) $5\frac{1}{2}$ hours (3) 6 hours

(4) $6\frac{1}{2}$ hours

- 23. The difference between the compound interest and simple interest on a certain sum at the rate of 5 p.c.p.a. in 3 years is Rs.15.25. The sum is (1) Rs. 2000 (2) Rs. 1000 (3) Rs. 2500 (4) Rs. 1500
- 24. A man pays Rs. 20 in the first month for clearing a dabt of Rs.3250 and increases the monthly payment by Rs, 15 in many months will he take to pay the debt?

	(1) 20 months			
	(2) 23 months			
	(3) 25 months			
	(4) 26 months			
25.	On adding a na	trual number P		
20.	to the product	of four consecu-		
	tive natural nu	of four consecu- mbers we get a		
	perfect square number. The			
	value of P is			
	(1)8	(2) 2		
	(3) 4	(4) 1		
26.	The fraction ly	ing between $\frac{2}{2}$		
	and $\frac{3}{5}$ is			
		$(2) \frac{31}{31}$		
		(2) $\frac{31}{50}$ (4) $\frac{1}{3}$		
27.		digit number di		
	visible by 41 is			
	(1) 10045	(2) 10041		
	(3) 10004	(4) 41000		
28.		ft between near		
		sequence, there		
	is a decrease b	y one. In the fol		
		lowing letter series which one		
	follows this rul			
	(1) DJOTV	(2) DJOSV		
	(3) DJOSW	(4) DIOSU		
29.	Choose the odd	one out :		
	(1)42 - 4	(2)36-6		
	(3) 32 - 2	(4) 15 - 5		
30.	If the word CI	OCK is written		
		de language a		
	34235 and TIM	IE is written as		
	8679, then how	will MOLEK be		
	written in the	same code lan		
	guage?			
	(1) 62495	(2) 62945		
	(3) 72495	(4) 72945		
31.		written as SAS		
	ING in a certai	n code language		
	then KIDNAP	will be written as		
	(1) IKNDPA (3) IKDNAP	(2) IKDNPA		
	(3) IKDNAP	(4) IKAPDN		
32.		— to the plants		
	(1) Calcium			
	(2) Phosphorus			
	(3) Patassium			
	(4) Nitrogen			
33.	Mica is used in			
	(1) furance			
	(2) electric ind	ustry		

(3) steel industry (4) glass manufacturing 34. Which of the following is a physical change? (1) Burning of cooking gas (2) Fermentation of milk (3) Digestion of food (4) Dissolution sugar in water 35. The chemical compound used in photography is (1) Aluminium Hydroxide (2) Silver Bromide (3) Potassium Nitrate (4) Sodium Chloride 36. What causes cholera? (1) Bacteria (3) Fungus 37. An apparatus for viewing objects lying above the eye level of the observer and whose direct vision is obstructed is known as (1) Photometer (2) Periscope (3) Planimeter (4) Snectrometer 38. Which atom has only one elec-(1) Potassium (2) Nitrogen (3) Oxypenorg (4) Hydrogen 39. What the electrode that is connected to the negative pole of the battery is called ? (1) Cathode (2) Electroplate (4) Anode 40. The organic acid present in vinegar is (1) brufanoic acid (2) propanoic acid (3) methanoic acid (4) ethanoic acid 41. Which of the following is an example of fossil fuel? (1) Coke (2) Natural gas (3) Coal gas (4) Producer gas 42. Water gas consists of (1) a mixture of carbon monoxide and hydrogen (2) water vapour and coal dust (3) a mixture of carbon monoxide and nitrogen (4) water vapour and methane 43. A body strikes the floor vertically with a velocity u and re-

bounds at the same speed. The change of sneed would be (2) 7ero 44. Which of the following is different from others? (1) Speed (2) Time (3) Density 45 Momentum has the same unit. (2) couple (3) impulse (4) moment of momentum 46 What is the momentum of a man of mass 75 kg when he walks with a uniform velocity of 2m/s? (1) 50 kg m/s (2) 75 kg m/s (3) 100 kg m/s 47. At the centre of the earth, the value of g becomes (4) None of these 48. Two unequal masses possess the same momentum, then the kinetic energy of the heavier ergy of the lighter mass. (1) smaller than (2) greater than (3) same as (4) None of these 49. 15 bulbs of 60W each, run for 6 hours daily and a fridge of 300W runs for 5 hours daily. Find the fortnightly bill at the rate of 30 paise per unit. (1) Rs. 31.05 (2) Rs. 45.55 (3) Rs. 62.10 (4) Rs. 75.10 Directions (50 - 55) : In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and

1, 2, 3, 6,	
(1) 18	

51	4, 5, 9, 1	18, 34, ()
	(1) 43	(2) 49
		(4) 59
52	. 66, 36, 1	
		(2)6
53	. 3, 6, 5, 2	
		(2) 60
	(3)66	(4) 72
54	. 1, 3, 4, 8	, 15, 27, ()
		(2) 44
55	8, 10, 14	, 18, (), 34, 50, 66
	(1) 24	(2) 25
	(3) 26	(4) 27
56.	The con	nected load of a con- 2 KW and his maxi-
		2 KW and his maxi-
	mum de	mand is 1.5 KW. The
		or of the consumer is
	(1) 0.75	
	(2) 0.375	
	(3) 1.33	
57.	(4) None	of these
01.	(1)	are used in cables to
	(1) provid	de proper insulation de mechanical strength
	(2) provid	nt ingress of moisture
	(4) None	
58.	For the	table operation of in-
	terconne	cted system, the pas-
	sive elem	ent that can be used
	as interce	onnecting element is
	(1) React	
	(2) Resist	
	(3) Capac	
	(4) Resist	or and Capacitor
59.	The insu	lation resistance of a
	cable of l	ength 10 km is $1M\Omega$.
	its resista	ance for 50 km length
	will be	
	(1) 1 MΩ	
	(2) 5 MΩ	
	(3) 0.2 Mg	
30.	(4) 10 MΩ	
90 .	the rate	of change of momen-
	(1) Forec	ectly proportional to
	(2) Inertis	
	(3) Momen	
	(4) None o	
	If four 80	IF capacitors are con-
	nected in	parallel, the net ca-
	pacitance	is
	(1) 20 µF	
	(2) 80 µF	
	(3) 160 #F	

(4) 320 µF

6	2. The transformer used to de-
	crease the magnitude of the al-
	ternating voltage is a
	(1) step-up transformer
	(3) step in transformer
	(4) step-out transformer
63	
	against each other
	(1) They acquire equal and simi-
	lar charges
	(2) They acquire equal and op-
	(3) They acquire unequal and
	similar charges
	(4) They acquire unequal and
	opposite charges
	Lightning is caused in the sky
	due to the flow of charge be-
	(1) two oppositely charged
	(2) two similarly charged clouds
	(3) one neutral and one charged
	(4) None of these
65.	
	light directly into electrical en-
	ergy? is org
	(1) Solar cooker
	(2) Solar cell
	(3) Solar furnace
66.	(4) Solar water heater
66.	
	(2) conductors
	(3) Both insulators and conduc- tors
	(4) Neither conductors nor insu- lators
67.	
	The electric current which changes its direction after fixed
	intervals of time is called
	(1) induced current
	(2) direct current
	(3) alternating current
	(4) None of these
68.	A device used to stabilise the
	voltage supplied by electric sup-
	ply station is a
	(1) dynamo
	(2) transformer
	(3) ammeter
	(4) generator
69	Silver is a

(1) magnetic substance

 sood conductor of electricity
 bad conductor of electricity
 bad conductor of electricity
 non-instrument used to observe howeverb bodies in the
 telescope
 camera
 microwcepe
 periocope
 the maximum percentage in the non-period period

 The maximum percentage i the atmosphere is of (1) Oxygen (2) Nitrogen (3) Carbondioxide (4) Helium

72. What is the function of Ozone laver?

 Prevents harmful infra-red rays of the sun from reaching the earth

(2) Prevents radiation escaping the earth, hence keeping it warm

(3) It is essential for rainfall

(4) It filters harmful ultra-violet rays of the sum

 In the International system of measurement, the 'Kelvin' is the unit of

(1) mass

(2) temperature

(3) electric current

(4) a

Which group of letters will complete the letter series being placed in blanks in order

 a_bbc_aab_cca_bbcc
 (1) bacb
 (2) acba
 (3) abba
 (4) caba

Directions (75-79) : In each question, a sequence has been given which has a missing term. Pick out the right alternative that completes the sequence.

U, O, ?, E, A		
	(2) K	
OTE, PUF,	QVG, RWH, ?	
	(2) TXI	
	(4) SXI	
33, 28, 24, 2, 19, 18		
	(2) 22	
	(4) 23	
6, 10, 18, 34		
(3) 66	(4)76	

	7, 12, 19, 28, 39	2	92.	A shopkeeper	bought goods for
		(2) 60			
		(4) 52		Rs. 2025. He	sold $\frac{1}{5}$ th of it :
80.	Choose the odd			20% profit an	nd the remainir
	(1) Wool	(2) Fur		at the profit	of 5%, the prof
	(3) Hair	(4) Grass		per cent on th	e whole is
81.	Game : Ground			(1)6%	
	(1) Hall	(2) Stage		(3) 6.5 %	(4)8%
	(3) Screen	(4) Drama	93.	A group consi	
82.	Girl : Beautiful			20 women. Th	ne average weigl
	(1) Smart	(2) Heroic			8 kg and that
	(3) Courageous			women is 30	kg. The average
	(4) Handsome			weight of the	group is
	Court : Justice	: School : ?		(1) 35 kg	(2) 39 kg
	(1) Teacher	(2) Student		(3) 40 kg	(4) 45 kg
	(3) Ignorance		94.	A sum is di	vided among 15
	Fruit : Banana	: Mammal : ?		men and sor	ne women in th
		(2) Snake			If each man ge
	(3) Fish	(4) Duck		Rs. 5 and eac	h woman gets B
85.	The first aton	aic power plant		4, the numbe	r of women is
	was started in	India at		(1) 220	(2) 200
	(1) Narora	(2) Tarapur		(3) 190	(4) 210
	(3) Rawatbhau	a	95.	The chief cent	tre of learning du
	(4) None of the			ing Lord But	ldha era was
86.	To conserve the	eatables we use		(1) Nalanda	
	(1) Benzoic aci	d		(2) Delhi	
	(2) Sodium chl	oride		(3) Varanasi	
	(3) Sodium car			(4) Bodh Gay	ateria a
	(4) None of the	se	96.	Mustard is g	rown in
87.	The least pollu	ting fuel is		(1) Kharif se	ason
	(1) Hydrogen			(2) Rabi seas	ion
	(3) Kerosene	(4) Coal		(3) Jayad sea	ison
88.	Malaria sprea	ds by		(4) Whole yes	
	(1) Culex most		97.		posts of Preside
	(2) Anopheles				sident lie vacar
	(3) Water born	e mosquito			s as the Presider
	(4) None of the				of the Lok Sabha
89.	Heart disease	is caused by in-		(2) Chief Jus	
	crease in				General of India
	(1) Glucose				n of Rajya Sabh
	(2) Colestrol		98.		edle directs to
	(3) Heparin			(1) East	(2) Sky
	(4) Haemoglob			(3) North	(4) West
90.		helps in clotting	99.		n complete a wo
	of blood ?				ow many men w
	(1) Vitamin B				to complete tw
	(2) Vitamin B.			the work in :	
	(3) Vitamin K				(2)3
	(4) Vitamin D		1. Contraction	(3) 11	
91.	The chief sour	ce of energy is	100.		a got emancipati
	(1) Vitamin			(Mahaparini	
	(2) Minerals			(1) Kushinag	;ar
	(3) Carbohydr	ate		(2) Lumbini	
	(4) Water			(3) Bodh Gay	
				(4) Kapilvas	tu