Common Paper JS, JTS, JA Key Level 1

Date of Examination: 14.03.2020

Time: 2 Hrs

Name of the Candidate:	rio i					

Candidate's Signature

Invigilator's Signature

Instructions to Candidates:

- 1. Use of Calculators, cell phones and other electronic devices IS NOT permitted inside Examination Hall.
- 2. Candidate should fill the details on both Question paper booklet and OMR sheet carefully without any corrections.
- 3. Candidate should carefully read the instructions given on Question paper and OMR sheet.
- 4. Candidate should mark correct answer only on OMR sheet provided against each question.
- 5. Question paper consists of 80 questions. The questions are divided into Part A and Part B. Part A consists of 60 questions carrying one mark each. Part B consists of 20 questions carrying two marks each.
- 6. Wrong answer for each question in Part-A carries negative of 0.25 mark. Wrong answer for each question in Part - B carries negative of 0.5 marks.
- 7. Clarifications on questions are not permitted.
- 8. Rough work can be done in the blank space provided at the end of the last question in the Question booklet.
- 9. No candidate is allowed to leave the examination hall till the examination is over.
- 10. Candidate should return both question paper booklet along with OMR sheet after completion of the examination.

Part - A (60 x 1 = 60 Marks)

1.	There are nine coins, eight coins are of	same weight; but one is light. If you have a simple balance
	A) 2 B) 3	of times to use the balance to find the light coin? C) 8 D) 5
2.	If $\sqrt{2}^n = 64$, then the value of n is	
	A) 2 B) 4	C) 6 D) 12
3.	The sum of digits of a two digit number is A) 69 B) 96	s 15 and their difference is 3. The number is C) 74 D) Cannot be determined
4.	If January month in a certain year had exyear was A) Sunday B) Wednesday	xactly 4 Mondays and 4 Fridays, then January 24 th of that C) Saturday D) Thursday
		-) Thursday
5.	Given that X and Y are positive integers, statements is <u>necessarily</u> true? A) Either X – Y or X + Y is divisible by C) X + Y is divisible by 2	and X – Y is an even number, which of the following B) $X^2 - Y^2$ is divisible by 6 D) $X^2 - Y^2$ is divisible by 8
	one living in his or her own room. There a	Three men (Ram, Rajiv and Sam) and three women (Sita, s at a hotel. They are to stay in a row of nine rooms, each are no others staying in the same row of rooms. to stay in any room, which is at the end of the row. By besides any occupied room there is just one vacant house.
6.	How many of them occupy a room next to	
7.	A) 2 Which among these statement(s) are true? I. Aruna is between Sita and Sam. II. At the most four persons can have a stays besides Rajiv.	answer for each question in Part - 6 cal
	A) I and II only	C) II and III only D) I, II and III
8.	If you are using MS Word, "Ctrl + right are A) To one word right C) To the end of the document	row" is used to move the cursor to: B) To the end of the line D) One paragraph down
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9.	If $1234_{(x)} = 466_{(10)}$, then what is the value of x
	A) 5 B) 6 C) T D) 8
10.	Which one of the following discovered the Heliocentric theory that Earth and planets revolve around Sun?
	A) Aristotle B) Ptolemy C) Eratosthenes D) Copernicus
11.	In a three digit number, the middle digit is the sum of its neighbors. Then it must be a multiple of: A) 3 B) 7 D) 2
12.	A person walks from home and travels South 12km. Then he turns East and travels 4km. Then he turns North and travels 9km and from that point reaches home by shortest path. If he was walking at 6 km/hour, how long was his total trip in minutes? A) 300 B) 205 C) 320 D) 240
13.	A six faced die is a biased one. It is thrice more likely to show an odd number than to show an even number. It is thrown twice. The probability that the sum of the numbers in the two throws is even is A) 4/8 B) 5/8 C) 6/8 D) 7/8
14.	A blacksmith has five iron articles A, B, C, D and E, each having a different weight. • A weighs twice as much as B • B weighs four and half times as much as C • C weighs half as much as D • D weighs half as much as E • E weighs less than A but more than C Which of the following article is heaviest in weight? A) A B) B C) C D) D
15.	Out of the given alternatives, choose the word that best expresses the meaning of the word ABRIDGE. A) Judge B) Release C) Shorten D) Dissolve
16.	The product of the two binary numbers 10111 and 1110, written in hexadecimal format is A) 150 B) 14C C) 142 D) 13E
17.	The number of even numbers that can be formed by using all the digits 2, 3, 4, 5, 6 is A) 25 B) 72 C) 120 D) 1875
18.	If certain number of workers can do a piece of work in 25 hours, in how many hours can another team of equal number of workers do another piece of work, which is double that of the first, complete the work if 2 workers of the first team can do as much work as 3 workers of the second team A) 60 B) 75 C) 90 D) 100
19.	A person purchased an item at a discount of 30% on the labeled price and sells it for Rs. 8750. He gains a profit of 25% on his purchase price. The labeled price of the item is A) 10000 B) 12500 C) Data inadequate D) None of these

20.	Q is as much younger than R as he is older than T. If the sum of the ages of R and T is 50, then the sum of the ages of R and Q is
	A) 2 years B) 5 years C) 25 years D) Cannot be determined
21.	If 2 men and 7 boys can do a piece of work in 14 days; 3 men and 8 boys can do the same amount of work in 11 days, then 8 men and 6 boys can do three times the amount of work in A) 18 days (B) 21 days (C) 24 days (D) 30 days
22.	Two trains of equal length are running on parallel tracks in the same direction at speeds of 46 kmph and 36 kmph respectively. The faster train passes the slower train completely in 36 seconds. The length of each train in meters is
1	A) 50 B) 72 C) 80 D) 82
23.	Which of the following companies has launched Tangi application? A) Facebook B) Google C) Microsoft D) TCS
24.	Government of India has made hall marking compulsory to which of the following metals? A) Gold B) Silver C) Platinum D) All three metals
25.	Which of the following political parties has won the recently held Assembly elections of Delhi to form the Government? A) BJP B) AAP C) JJP D) INC
26.	The present Chief Justice of Supreme Court of India is A) Justice Ranjan Gogoi B) Justice Deepak Mishra C) Justice Sharad Aravind Bobde D) None of these
27.	Two persons have attended an interview and their chances of getting selected are 1/5 and 1/7. The chances of only one of them getting selected is A) 4/5 B) 6/7 C) 24/35 D) 2/7
28.	The number of four digit numbers that can be formed using the digits 0, 1, 2, 3, 4, 5, 6 without repetition of digits is A) 840 B) 7! / 4! C) 720 D) 120
29.	A man is watching from the top of a tower a boat speeding away from the tower. At a distance of 60 meters from the tower, the boat makes a depression of 45°. After 5 seconds, the angle of depression becomes 30°. The approximate speed of the boat running in still water is A) 32 kmph B) 36 kmph C) 38 kmph D) 40 kmph.
30.	The numbers in the following series follow a pattern excepting one number. Identify the odd number 1, 5, 14, 30, 50, 91, 140 A) 5 B) 30 C) 50 D) 91

31.	Two words in each of related	the following are relat	ed in some way. Identify t	he pair that is differently
	A) Tea and Coffee	B) Pencil and Pen	C) Cycle and Scooter	D) Shirt and pocket
	Six scientists A, B, C present in morning se scheduled such that E	ssion and the rest to pre	sent a paper each in a confi esent in the afternoon sessi per immediately before C's	erence. Three of them are to ion. The presentations are presentation in a single
32.	If C is the sixth prese A) Third	nter, then B must prese B) Fifth	nt his paper at which posit C) Fourth	ion? D) Second
33.	B can present his pap A) First	er at any of the followi By Third	ng positions excepting C) Fourth	D) Fifth
34.	If F presents his pape positions. A) Third	r immediately after D, B) Fourth	then C can present his pap C) Fifth	er at which of the following D) None of these positions
35.	A) A and D are to probable B) A presents before C) A and D make the	er at fifth position, which esent as first presenters E makes his presentation for presentation in the main presentation in the at	norning session	ssarily true? ternoon sessions
36.	The missing number A) 67	in the series 4, 7, 11, 1 B) 74	8, 29, 47, -, 123, 199, i C) 76	s 20184
Myself	Five fishermen Paul, caught 5 fishes between	een them. Henry and Wand Paul together have	Walter went for fishing. Falter together have caught	Peter and John together have 8, Paul and Henry together fishes caught by Walter is
37.			five fishermen together is C) 32	D) 34
38.		g pairs, which pair has B Paul and Walter	caught maximum number of C) Peter and Walter D	of fishes?) Paul and John
39.	Identify the most nea	nrest synonym for the w B) Knowledge		O) Examination
40.	Algnorant	ng is the most nearest to B) Unknown	C) Short) Stately
41.	Choose the phrase fr	om the options to comp e new house, including	blete the statement which is the furniture and curtains B) are more pleasing D) are pleasing	s grammatically correct

42.	Which of the following is sentence is a correct alternative for the sentence "The earth is always revolving round the Sun" A) The earth revolves round the Sun B) The earth is revolving round the Sun C) The earth revolving round the Sun D) None of these
43.	Octal equivalent of the hexadecimal number 4DF is
	A) 2333 B) 2337 C) 2773 D) 2373
44.	Which of the following is hexadecimal representation the product of two binary numbers 10111 and 1110?
	A) 150 B) 14C C) 142 D) 13E
45.	The position of a student Raju in his class is 5 th from top. The position of another student Ramani in the class is 7 th from the bottom. Another student Ravi is in 6 th place after Raju and 6 th place before Ramani. The total number of students in the class is A) 26 B) 24 D) 20
46.	Change the speech in the following sentence: Dad said to David, "Please help me by washing the dishes" A) Dad said to David help me by washing the dishes B) Dad asked David to help him by washing the dishes C) Dad asked David to help me by washing the dishes D) Dad asked David help in washing the dishes
47.	Which of the following is not an Operating System? A) Linux B) OS/2 D) ANDROID
48.	The missing number in the series 4, 7, 11, 18, 29, 47,, 123, 199 is A) 70 B) 76 C) 84 D) 90
49.	How many cubes of size 3cm can be inserted into a box with length 15cm, breadth 12 cm and height
	6cm?
	A) 48 (B) 40 (C) 45 (D) 42
50.	Choose appropriate word/phrase that is of the same meaning as that of the underlined word in the sentence "Corona virus had <u>broken out</u> in some countries" A) eradicate B) run away C) spread D) escape
51.	Fill in the blank: She was late. She to set her alarm clock A) forgotten B) forgot C) had forgotten D) had forgot
52.	A man takes 5 hours 45 minutes in walking to a certain place and riding back. If he gains 2 hours in riding both ways, how much time does he take to walk both ways? A) 7 hours B) 7 hours 30 minutes C) 7 hours 45 minutes D) 8 hours

53.		the following series of the following series of the series 3, 8,	loes not follow the pattern as 15, 24, 34, 48, 63,	s followed by the others.
	A) 15	B) 24	C) 34	D) 48
54.	The number of non-ne	egative integers less th	an 1000 that contain the digi	t 1 is
	A) 9^2	B) 9 ³	C) $10^2 - 9^2$	D) $10^3 - 9^3$
55.		bers that can be formed	l using the digits 2, 4, 6, and	8 without repetition of
	digits is A) 12	B) 4 ²	C) 4 ³	D) 24
56.	returning, he noticed	while going to tennis c that the hour hand is 20 the time spent by Sharm	ourt. He saw the hour hand in a saw the hour hand in a saw the tennis court is	is 20 ⁰ away from 4. After n 10 minutes each way to g
	A) 50 mins	B) 60 mins	C) 70 mins	D) 80 mins
57.		owing sentence has ern MA whereas I am only		C). On manhor of measures
	A) My elder brother	B) is a MA	C) whereas I am	D) only a BA
58.	Out of the following a	alternatives, choose the	e word that is opposite in me	aning to the word
	A) Reluctant	B) Poor	C) Clear	D) Enthusiastic
59.	Out of the following,	identify the person wh	o is NOT a Nobel Prize Wir	nner?
,	A) J C Bose		B) Rabindranath Tag	
	C) C V Raman		D) Subamanayan Ch	andrasekhar
60.	Indian woman sports	person Shafali Verma	represented India in which o	of the following sports?
-115	A) Tennis	B) Hockey	C) Cricket	D) Wrestling
		Part – B	(20 x 2 = 40 marks)	
61.	The average age of the	ne students in the class	is 14. The average age of ha	If of the students in the cla e students in the class is 1:
	The number of studer			
	A) 30	B) 40	C) 50	D) Data inadequate
62.	making an angle of 3	a storm and the broken 0° with the ground. The he	part bends so that the top of e distance from the foot of the	the tree touches the groun the tree to the point where t
	A) $9\sqrt{3}$ mts	B) $10\sqrt{3}$ mts	C) $9\sqrt{5}$ mts	D) 10√5 mts
63.	The average value of		and their variance is 5.2. If t	
05.	are 1 2 and 6 the oth			

64.	Two-thirds of a consignment was sold at a profit of 5% and the remaining one-third was sold at a loss of 2%. If the total profit on the entire consignment is Rs. 400, the value of the entire consignment in Rs. is
	A) 10000 B) 12000 C) 15000 D) 18000
65.	Two dice are tossed. The probability that the total score is a prime number is A) 1/6 B) 5/12 C) 1/2 D) 7/9
tofi.	Questions 66 to 68 are based on the following" In a family of six persons, there are two couples. Lawyer is the head of the family and has two children and both of them are teachers. Mrs. Reena and her mother-in-law are both lawyers. Lawyer's daughter-in-law is a doctor and has a son Ajay.
66.	Which of the following is definitely a couple? A) Doctor – Lawyer C) Teacher – Teacher D) None of these
67.	The number of doctors in the family is A) 1 B) 2 C) 1 or 2 D) None of these
68.	How is Ajay related to Mrs. Reena? A) Son B) Grandson C) Nephew D) None of these
\$	Questions 69 to 72 are based on the following: Six employees are to be allotted office cubicles arranged in a row and are separated by partitions with the top of the partition left open so that voices, sounds and smoke flow from one to the other cubicle. Ms. Harika is the senior most and has to be allotted cubicle 5, which has biggest window. Mr. Deepak requires silence in the office next to his and Mr. Tarun prefers to be as far as possible from Ms. Raveena. Mr. Madan and Mr. Bhupen need adjacent rooms as they need to consult each other frequently during office hours. Mr. Tarun, Mr. Madan and Mr. Deepak are all smokers while Ms. Harika is allergic to cigarette smoke, hence the cubicles adjacent to hers can be occupied by non-smokers only. Unless otherwise explicitly mentioned, all employees maintain silence in their offices.
69.	The ideal candidate to occupy the cubicle farthest from that of Mr. Brown would be A) Ms. Harika B) Mr. Madan C) Mr. Tarun D) Mr. Deepak
70.	Which of the following could be the cubicles that can be allotted to the three smoking employees? A) 1, 2, and 4 B) 2, 3, and 6 C) 1, 2, and 3 D) 1, 3, and 6
71.	The ideal cubicle for Mr. Madan would be A) 6 B) 4 D) 1
72.	Which of the following can be neighbor to Mr. Madan? A) Mr. Deepak B) Ms. Raveena C) Ms. Harika D) Mr. Tarun

	Questions 73 to 74 are based on the following:				
	There are three switches A, B, and C which can be in either on or off positions. The settings of the				
	switches can be changed as per the following rules:				
	If A is the only switch in on, change B to on				
	If A and B are the only switches in on, change C to on				
	70 11 1 1 0 00				
1940	Y 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
-	• In all other cases, toggle all the three switches – change the switches in on to off and those which are in off to on				
	which are in our to on				
73.	If the only switch which is in on position, the changed position for the switches A, B, and C would				
, 5.	be				
	A) on, on and on B) on, off, and on C) on, on, and off D) off, off, and on				
74.	If C is the only switch in on position after change of switches, which of the following could be the				
,	original setting for the three switches A, B, and C?				
	I. on, on, off II. on, on, on				
	A) Honly B) II only C) I or II D) Neither I nor II				
75.	What is the average speed of the car for entire distance?				
	In order to answer the question, data from which of the following statements is necessary?				
	I. The car covers whole distance in four equal stretches at speeds of 10kmph, 20kmph, 30kmph and				
	40kmph respectively.				
	II. The total time taken is 30 minutes.				
	A) I alone B) II alone C) I and II D) Neither I nor II				
76.	The value of x and y if $(x567)_8 + (2yx5)_8 = (71yx)_8$				
	A) 4, 3 B) 3, 3 C) 4, 4 D) 4, 5				
77.	The binary equivalent of decimal number 0.4375 is				
	A) 0\\(0.1100\) B) 0.0101 C) 0.1100 D) 0.1010				
	Questions 78 to 80 are based on the following:				
	An office has three managers A, B, and C and five secretaries D, E, F, G, and H. It is proposed to				
	establish another office at a different place using two managers and three secretaries from among the				
	existing staff. In order to identify the appropriate staff to be sent, the following conditions must be				
	satisfied				
	A and C always try to find fault with each other and should not be sent				
	C and E function well individually but not as a team				
	D and G are not in talking terms and hence should not be sent together				
	 D and F are competing for a promotion, they should be separated. 				
70	YOA ' - 1				
78.	If A is to be moved, which of the following cannot be a possible team to be sent				
	A) ABDEH B) ABDGH C) ABEFH D) ABEGH				
70	If C and H are moved to the new office, how many possible teams of 5 members can be formed for				
79.	If C and H are moved to the new office, how many possible teams of 5 members can be formed for sending to the new office				
	AX1 B) 2 C) 3 D) 4				
80.	If C is sent to the new office, which of the following also cannot be sent to the new office?				
00.	A) B B) D C) E D) G				
	1.7 = = 1 =				