

SCHOLARSHIP *Cum* ADMISSION TEST

Sunday,
31st December 2023

For Grades III to XI

Appearing for Class VIII

Scholarship Aspirants Today
Victors in Life Tomorrow !

At **RPS** Excellence is a HABIT

JEE ADVANCED-2023

NEET -2023



SUPER ACHIEVEMENTS OF **RPS** GROUP OF SCHOOLS
Session: 2023-24



(Space for rough work)

APPEARING FOR CLASS VIII

Science: 1-20

Maths: 21-40

Social Science: 41-60

English: 61-80

TIME: 90 Minutes

M.M. 80

Student's Name: Father's Name : Mobile No.:

Address

Present School:

General Instructions:

1. Duration of Test is 90 minutes and Question Paper contains 80 Questions with maximum 80 marks.
2. Use of gadgets is not allowed.
3. Student should abide by the instructions issued during the examination by the invigilator or the centre incharge.
4. Before attempting the question paper ensure that it contains all the pages and that no question is missing.
5. **There is No Negative marking.**

Correct Method



Wrong Method



Science (20 Marks)

Physics (07 Marks)

- Calculate the heat required to raise 0.6 Kg of sand from 30°C to 90°C? (Specific Heat of sand = 830 J/Kg°C)
(a) 29880 J (b) 29870 J (c) 29860 J (d) 29890 J
- A train starts from station A and reaches station D which is 150 km away. It has scheduled halts at station B and C for 5 minutes each. The distance between A and B is 50 km and C and D is 60 km. The train starts at 5 p.m. from A and reaches D at 8.30 p.m. What is its average speed in m/s?
(a) 15.8 m/s (b) 11.88 m/s (c) 8.41 m/s (d) 5.83 m/s
- Slope of a velocity-time graph gives
(a) displacement (b) time (c) acceleration (d) velocity
- At the time of the short circuit, the current in the circuit.
(a) Reduce substantially (b) Does not change
(c) Varies continuously (d) Increase heavily
- Which of the following characteristics is not suitable for a fuse wire?
(a) Thick and short (b) Thin and short
(c) Low melting point (d) Higher resistance than the rest of the wiring
- A convex mirror of focal length 1 m is used as a rear view mirror in a car. If a bike is located at 5m from this mirror, then find the nature and the size of the image of the bike.
(a) Virtual, inverted, same size (b) Virtual, erect, diminished
(c) Real, erect, same size (d) Real, inverted, diminished
- You are provided with a concave mirror, a convex mirror, a concave lens and a convex lens. To obtain an enlarged image of an object you can use either
(a) concave mirror or convex mirror (b) concave mirror or concave lens
(c) concave mirror or convex lens (d) concave lens or convex lens

Chemistry (07 Marks)

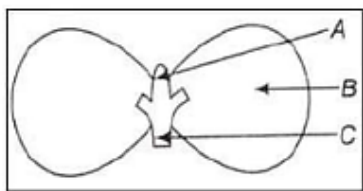
- An acid having basicity two
(a) Carbonic acid (b) Hydrochloric acid
(c) Sulphuric acid (d) Both (a) and (c)
- Non – metallic oxides react with water to form
(a) Alkaline solution (b) Acidic solution
(c) Neutral solution (d) Both (a) and (b)

10. The mass of the substance does not change when
 (a) water freezes (b) wood is burnt
 (c) sodium reacts with oxygen (d) carbon burns
11. The correct order of metal reactivity is
 (a) $\text{Na} > \text{Sn} > \text{Zn} > \text{Mg}$ (b) $\text{K} > \text{Ca} < \text{Al} < \text{Fe}$
 (c) $\text{K} > \text{Na} < \text{Ca} < \text{Mg}$ (d) $\text{Cu} > \text{Hg} < \text{Na} > \text{Mg}$
12. The freezing point and boiling point of water _____ and _____ respectively due to dissolved impurities.
 (a) decreases, increases (b) increases, decreases
 (c) decreases, decreases (d) increases, increases
13. A substance present in temporary hard water.
 (a) Magnesium chloride (b) Magnesium bicarbonate
 (c) Magnesium sulphate (d) All of these
14. _____ is used to treat malaria and most important of all vegetable drugs used in the allopathic system.
 (a) Amaltaash (b) basil leaves (c) Quinine (d) Turmeric

Biology (06 Marks)

15. Which of the following statements is true about croton plants ?
 (a) Croton plants do not contain chlorophyll.
 (b) Croton plants are dark red in colour. Hence they depend on other plants for food.
 (c) Croton plants have chlorophyll but it is hidden by dark red colour pigments.
 (d) Croton plants are parasites.
16. The function of the digestive juices present in the stomach is to breakdown :
 (a) the proteins into simpler substances (b) starch into sugars
 (c) fats into juices (d) food into gases
17. Chemicals present in tobacco smoke lead to the breakdown of the elastic tissue in the alveoli. Name this specific condition.
 (a) Heart disease (b) Emphysema
 (c) Bronchitis (d) Lung cancer
18. Which of the following statements is not correct ?
 (a) Deoxygenated blood is poured into right atrium of heart.
 (b) The excretory units of flatworms are flame cells.
 (c) Human kidney has about 1 million nephridia.
 (d) Tracheids and vessels are non- living conducting tissues.

19. In the below figure, parts A, B and C are sequentially



- (a) Cotyledon, plumule and radicle
(b) Plumule, radicle and cotyledon
(c) Plumule, cotyledon and radicle
(d) Radicle, cotyledon and plumule
20. Factors responsible for the rapid spread of bread mould on slices of bread are :
- (1) large number of spores
(2) availability of moisture and nutrients in bread
(3) presence of tubular branched hyphae
(4) formation of round shaped sporangia
- Which of the above statements are true ?
- (a) (i) and (iii) (b) (ii) and (iv) (c) (i) and (ii) (d) (iii) and (iv)

Mathematics (20 Marks)

21. Which rational number is exactly in middle between the two rational numbers $\frac{1}{3}$ and $\frac{1}{2}$?
- (a) $\frac{5}{12}$ (b) $\frac{5}{6}$ (c) $\frac{1}{12}$ (d) $\frac{3}{5}$
22. If $\frac{9}{5}$ of a number is 45, what is $\frac{1}{5}$ of the same number ?
- (a) 5 (b) 25 (c) 30 (d) 81
23. The rate at which a sum becomes four times of itself in 15 years at S. I. will be :
- (a) 15 % (b) $17\frac{1}{2}$ % (c) 20 % (d) 25 %
24. If the cost price of 12 books is same as the selling price of 16 books. The loss percentage is
- (a) 15 % (b) 20 % (c) 25 % (d) 30 %
25. Solve for x :
- $3(2x-1)+25\%$ of $x=97$
- (a) 20 (b) 24 (c) 12 (d) 16
26. If $2A = 3B = 4C$ then find $A : B : C$.
- (a) 2 : 3 : 4 (b) 4 : 3 : 2 (c) 6 : 4 : 3 (d) 20 : 15 : 2

27. The sides of a triangles are in the ratio $\frac{1}{2}:\frac{1}{3}:\frac{1}{4}$ and its perimeter is 104 cm. The length of the longest side is
 (a) 52 cm (b) 48 cm (c) 32 cm (d) 26 cm
28. Find the perimeter of triangle ABC. It $\angle A = 90^\circ$, $AB = 8$ cm and $AC = 6$ cm.
 (a) 24 cm (b) 22 cm (c) 18 cm (d) 20 cm
29. Find the area of a rhombus one side of which measures 20 cm and one of whose diagonals is 24 cm.
 (a) 256 sq. cm (b) 384 sq. cm (c) 512 sq. cm (d) 480 sq. cm
30. The other name of a tetrahedron is
 (a) triangular pyramid (b) triangular prism
 (c) square pyramid (d) none of these
31. What is the Euler's formula ?
 (a) $V + F - E = 2$ (b) $V + E - F = 2$
 (c) $F + E - V = 2$ (d) None of these
32. The mean of first five multiples of 4 is
 (a) 10 (b) 11 (c) 12 (d) 14
33. x^3 is
 (a) constant polynomial (b) linear polynomial
 (c) quadratic polynomial (d) cubic polynomial
34. Degree of a constant polynomial is
 (a) 0 (b) 1 (c) 2 (d) None
35. If $2^n - 2^{n-1} = 4$, then the value of n will be
 (a) 1 (b) 3 (c) 2 (d) 27
36. Find the value of x , if $2^x + 2^x + 2^x = 192$
 (a) 6 (b) 5 (c) 8 (d) 3
37. Which of the following is not the set of measures of the sides of a triangle ?
 (a) 7, 3, 5 (b) 8, 12, 18 (c) 5, 6, 14 (d) 5, 12, 13
38. Find the measure of an angle, if six times its complement is 12° less than twice its supplement.
 (a) 48° (b) 30° (c) 87° (d) 49°
- 39 By what rational number should $\frac{-8}{39}$ be multiplied to obtain 26 ?
 (a) $\frac{507}{4}$ (b) $\frac{-507}{4}$ (c) $\frac{-407}{4}$ (d) None of these
40. The ratio of the area of a square to that of the square drawn on its diagonal is
 (a) 1 : 1 (b) 1 : 2 (c) 1 : 3 (d) 1 : 4

Social Science (20 Marks)

41. The layer of air surrounding the earth is called-
- (a) Biosphere (b) Lithosphere (c) Atmosphere (d) Hydrosphere
42. The layer of the Earth which is also referred to as NIFE :
- (a) Crust (b) Mantle (c) Rocky (d) Core
43. Which of the following is a depositional feature of a river ?
- (a) Loess (b) Delta (c) Mushroom rock (d) Cliff
44. Humidity of air is measured by :
- (a) Hygrometer (b) Wind Vane (c) Anemometer (d) Rain gauge
45. The World Water Day is celebrated on
- (a) 22 March (b) 22 April (c) 22 May (d) 22 June
46. The tropical rainforests of the Amazon basin are called –
- (a) Steppes (b) Selvas (c) Manioc (d) Maloca
47. In which continent is the Sahara Desert located ?
- (a) Australia (b) North America (c) Asia (d) None of these
48. The Civil Rights Act was enacted in the USA in
- (a) 1961 (b) 1962 (c) 1963 (d) 1964
49. When two or more parties form a Government in a state or at the centre, we call it :
- (a) State Government (b) A Union Government
- (c) Coalition Government (d) All of these
50. Who is the constitutional Head of the state ?
- (a) Chief Minister (b) Governor
- (c) Speaker of the Vidhan Sabha (d) Chief Justice
51. Who wrote 'Sultana's Dream' ?
- (a) Rokeya Sakhawat Hossain (b) Rashsundari Devi
- (c) Ramabai (d) None of these
52. In which language, 'Khabar Lahriya' newspaper is published ?
- (a) Marathi (b) Bundeli (c) Hindi (d) Sanskrit
53. A market acts as the link between the producer and the.....
- (a) Government (b) Farmer (c) Consumer (d) Teacher
54. A factory where seeds are removed from cotton bolls is called
- (a) Ginning Mill (b) Sugar Mill (c) Plantation (d) Cotton Textile
55. Who wrote 'Gita Govinda' ?
- (a) Kalhana (b) Jayadeva (c) Chand Bardai (d) Chaitanyadeva

56. Which of the following statements are correct.
- (1) Babur succeeded to the throne of Ferghana in 1498
 (2) In Akbar's reign there were 29 mansabdars with a rank of 5000 zat.
 (3) The third volume of the Akbar Nama is known as Ain – i- Akbari
 (4) Todarmal was the Akbar's religious minister.
- (a) 1, 2 and 3 (b) 2 and 3 (c) 2, 3 and 4 (d) 1 and 4
57. The men who are recognized as experts in Islamic theology are called
- (a) Khamas (b) Ulamas (c) Muqaddams (d) Sultans
58. A title or position that is acquired on account of blood relationship
- (a) Hereditary (b) Nagaratta (c) Nattar (d) Valanadu
59. The capital of the Rashtrakutas was
- (a) Ellora (b) Malkhed (c) Kalyani (d) Thanjavur
60. Who founded the Tughluq dynasty ?
- (a) Muhammad Tughluq (b) Ghiyasuddin Tughluq
 (c) Firuz Shah Tughluq (d) Khizr Khan

English (20 Marks)

61. The noun or noun substitute that a pronoun refers to is called its _____
- (a) root word (b) antiseptic (c) antecedent (d) antibiotic
62. **Fast** runners won all the awards at the track meet. The underlined word is a/an _____.
- (a) verb (b) adjective (c) adverb (d) preposition
63. I went to _____ hospital for treatment of chronic cough.
- (a) a (b) an (c) the (d) No article
64. I have hardly _____ knowledge of her activities.
- (a) some (b) any (c) a (d) None of these
65. **Seeing** the weather condition, we have decided to delay the match by half an hour. The underlined word is a/an _____.
- (a) transitive verb (b) intransitive verb
 (c) finite verb (d) non – finite verb
66. Five quintals of rice _____ sufficient to feed many hundred people.
- (a) is (b) are (c) were (d) has
67. My mother ____ on the phone when I ____ the room.
- (a) will talk, entered (b) was talking, entered
 (c) talked, had entered (d) None of these
68. The letter you _____ to me last week _____ so far.
- (a) write, has not reached (b) writing, reaching
 (c) wrote, has not reached (d) had writing, had not reached

69. They seldom watch television these days. The underlined word is_____.
- (a) adverb of manner (b) adverb of frequency
(c) adverb of degree (d) adverb of duration
70. If I were a chef, I would make a lot of money. (Identify the type of conditional.)
- (a) Zero conditional (b) First conditional
(c) Second conditional (d) Third conditional
71. _____ that he were here.
- (a) Will (b) Shall (c) Would (d) Should
72. His behaviour shocked me. (Change voice)
- (a) I was shocked by his behaviour (b) I was shocked at his behaviour
(c) I am shocked at his behaviour (d) I have been shocked by his behaviour
73. They made me laugh. (Change voice)
- (a) I was made to laugh (b) Laugh was made by them
(c) I was made laugh by them (d) I am made laugh
74. He said, "O that I were a king!" (Change into indirect speech.)
- (a) He said that I were a king (b) He said that I was a king
(c) He wished that he were a king (d) He wished that I were a king
75. My father said, "Labour never goes in vain." (Change into indirect speech.)
- (a) My father said that labour never goes in vain
(b) My father told that labour never went in vain
(c) My father said if labour never goes in vain.
(d) My father said the labour never goes in vain.
76. There is a ladder _____ the wall.
- (a) on (b) at (c) from (d) against
77. I know a place that offers homemade pickles. The underlined part is a/ an_____.
- (a) main clause (b) subordinate clause
(c) co- ordinate clause (d) adverb clause
78. He was injured, _____ he drove on.
- (a) and (b) because (c) so (d) nevertheless
79. I am an intelligent boy, _____ ?
- (a) am I (b) amn't I (c) aren't I (d) are I
80. A group of arrows is known as _____
- (a) pile (b) peal (c) volley (d) quiv

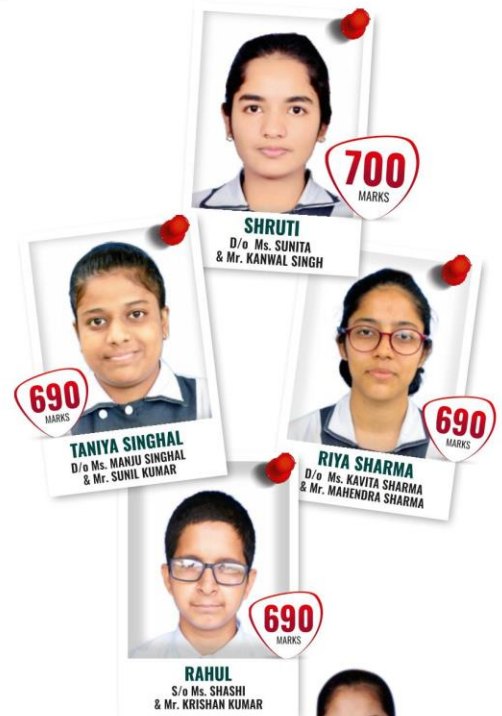
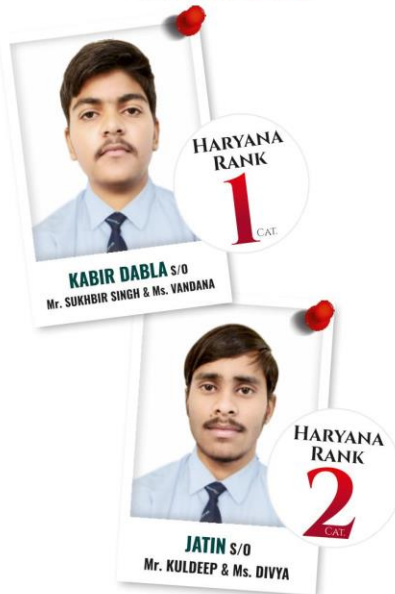
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JEE ADVANCED-2023

RPSians Add Another Glorious Chapter to the Spectacular Saga of

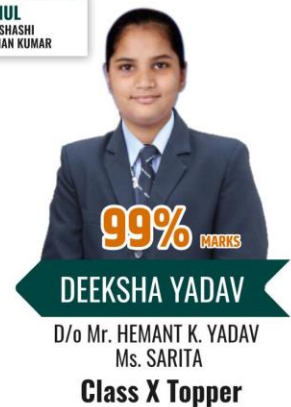
NEET -2023

CLAT-2023



CBSE Class XII -2023	
97% & ABOVE	37+ STUDENTS
95% & ABOVE	144+ STUDENTS
90% & ABOVE	484+ STUDENTS
80% & ABOVE	1316+ STUDENTS

CBSE Class X -2023	
97% & ABOVE	96+ STUDENTS
95% & ABOVE	311+ STUDENTS
90% & ABOVE	918+ STUDENTS
85% & ABOVE	1429+ STUDENTS



SPORTS ACHIEVEMENTS



1st Position
CBSE Cluster XV Athletics



2nd Position
CBSE Volleyball Cluster



2nd Position (Girls)
CBSE Basketball Cluster

SUPER ACHIEVEMENTS OF RPS GROUP OF SCHOOLS

Session: 2023-24



Our Campuses: Mahendergarh Ph.:01285-222645, 9416150201 | Rewari Ph.:8222000359 | Rewari City Ph.:9053555526 | Dharuhera Ph.:9467064534 | Kosli Ph.:9255148141 | Behror Ph.:9529678004 | Hansi Ph.:9813196969, 9896100407 | Narnaul Ph.: 8198976666 | Hisar Ph.:8307760465 | Gurugram Sec.-50 Ph.:8409989898, 7827466258 | Gurugram Sec.-89 Ph.:8222999182 | Karnal Ph.:8398000304/06 | Dharuhera Campus-2 Ph.: 01274-295 925/824, 09257133925 | Rohtak Ph.: 7419998800 | Dadri Ph.: 8222048283, 84 | Kanina Ph.9350693853, 9671720807 | Gurugram, Sec.-50, Rosewood Campus-2: Ph.: 70424 96986

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