

WBGDRB Question Paper Fully Solved for Gr D Posts

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1) Medicines are more effective, if they are used in

- a) gaseous state
- b) colloidal state
- c) solid state
- d) solution state

Ans - B

2) Which sector of the Indian Economy contributed largest to the Gross National Product (GNP)?

- a) Primary Sector
- b) Secondary Sector
- c) Public Sector
- d) Tertiary Sector

Ans - A

3) Internal energy of gas depends only on

- a) Pressure
- b) Temperature
- c) Volume
- d) Temperature and Pressure

Ans - B

4) A plant cell differ from animal in having

- a) chloroplast
- b) cell wall
- c) cell membrane
- d) nucleus

Ans - B

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5) India's largest multi-purpose river valley project is

- a) Nagarjuna Sagar
- b) Damodar Valley
- c) Bhakra Nangal
- d) Thungabhadra

Ans - C

6) The Balkan Plan for fragmentation of India was the brain-child of –

- a) W. Churchill
- b) M.A. Jinnah
- c) Lord Mountbatten
- d) V.P. Menon

Ans - C

7) Akbar founded the Din-i-Ilahi primarily to

- (a) Establish a national religion which would be acceptable to the Muslims and the Hindus
- (b) Ensure racial and communal harmony
- (c) Found a religious institution
- (d) Put an end to differences between Hindus and Muslims

Ans - A

8) Name the Rajput General who bravely fought the Battle of Khanwa before losing to Babar.

- (a) Rana Man Singh
- (b) Raja Jai Singh
- (c) Rana Sanga
- (d) Rana Pratap

Ans - C

9) Which one of the following pairs is correctly matched?

- (a) Ziauddin Barni – Tarikh-i-Muhammadi

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- (b) Amir Khusrao – Tabq-i-Nasiri
- (c) Ibn Batuta – Fatwa-i-Jahandari
- (d) Shams-i-Siraj Afif – Tarikh-i-Feroze Shahi

Ans - D

10) The rockcut temples of Mahabalipuram were built under the patronage of the

- (a) Chola Kings
- (b) Pallava Kings
- (c) Pandya Kings
- (d) Satavahana Kings

Ans - B

11) Riparian forest is found:

- (a) along the banks of rivers and other wetland
- (b) the tarai region, on the foot hills of Himalayas
- (c) on the foot hills of Eastern slope of Western Ghats
- (d) on the foot hills of Eastern slope of Eastern Ghats

Ans - A

12) Most of India's rainfall is:

- (a) cyclonic
- (b) convectional
- (c) elusive
- (d) orographic

Ans - A

13) What type of farming is practised in the densely populated regions of the world?

- (a) Commercial farming
- (b) Extensive farming
- (c) Intensive farming
- (d) Plantation farming

Ans - C

14) Where is pearl fishing well developed in India?

- (a) Off the Bengal coast
- (b) Off Kerala coast

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- (c) Off the coast at Rameshwaram
- (d) Nowhere

Ans - C

15) Which shipyard is known for the manufacture of barges, coasters and dredgers?

- (a) Hindustan Shipyard
- (b) Mazgaon Shipyard
- (c) Garden Reach Shipyard
- (d) Cochin Shipyard

Ans - C

16) Which one of the following planets is said to be "twin sister" of the Earth?

- a) Mercury
- b) Venus
- c) Mars
- d) Jupiter

Ans - B

17) A perfect black body has the unique characteristic feature as

- a) a good absorber only
- b) a good radiator only
- c) a good absorber and a good radiator
- d) Neither an absorber nor radiator

Ans - C

18) Cavitation is a special application property exhibited only by

- a) audible sound
- b) infrasonic
- c) ultrasonic
- d) electromagnetic waves

Ans - C

19) Why laser is used in the pipe alignment?

- a) They are directional in nature
- b) They are coherent
- c) They are monochromatic
- d) None of the above

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Ans - A

20) Which one of the following common devices works on the basis of the principle of mutual induction?

- a) Tubelight
- b) Transformer
- c) LED
- d) Photodiode

Ans - B

21) Optical fibre mainly used in communication is based on

- a) Less absorption coefficient
- b) Less scattering
- c) Total internal reflection
- d) Refraction

Ans - C

22) If there were no gravity, which of the following will not be there for a fluid?

- a) Viscosity
- b) Pressure
- c) Archimedes's upward thrust
- d) Surface tension

Ans - B

23) Post office box is a device for measuring resistance based on the principle of

- a) Potentiometer
- b) Meter bridge
- c) Ohm meter
- d) Galvanometer

Ans - B

24) The phenomenon of bursting of hydrogen balloon is based on

- a) Charles's law
- b) Boyle's law
- c) Henry's law
- d) Bernoulli's law

Ans - A

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25) The image from an object of a compound microscope is

- a) Virtual and enlarged
- b) Virtual and diminished
- c) Real and diminished
- d) Real and enlarged

Ans - D

26) Which one of the following element is essential for construction of nuclear reactors?

- a) Cobalt
- b) Nickel
- c) Zirconium
- d) Tungsten

Ans - C

27) Group displacement law was given by—

- a) Becquerel
- b) Rutherford
- c) Mendeleev
- d) Soddy and Fajan

Ans - D

28) The structure of ethylene is—

- a) linear
- b) tetrahedral
- c) octahedral
- d) triangular

Ans - D

29) Which one has hydrogen bonding?

- a) HCl
- b) HBr
- c) HF
- d) HI

Ans - C

30) Water solution base is called—

- a) Acid
- b) Salt
- c) Alkali

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d) None

Ans - C

31) BOD is _

- a) Biological oxygen deficit
- b) Biosphere oxygen demand
- c) Biological oxygen demand
- d) None of the above

Ans - C

32) Bhopal gas tragedy was due to –

- a) Air pollution
- b) Soil pollution
- c) Water pollution
- d) None of the above

Ans - A

33) Which pollution causes jaundice _

- a) Water
- b) Air
- c) Hand
- d) Thermal

Ans - A

34) Double helix model of DNA is given by _

- a) Muller
- b) Meghnath Sha
- c) Stepham Hawking
- d) Watson and Crick

Ans - D

35) Edward Jenner is related with which of the following disease _

- a) Rabies
- b) Small pox
- c) Paralysis
- d) Typhus fever

Ans - B

35) Which countries are linked by the Khyber Pass?

- a) India and Pakistan

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b) India and Afghanistan

c) Afghanistan and Pakistan

d) Afghanistan and Tajikistan

Ans - C

36) which two countries were involved in a Hundred Years War ?

- a) Turkey and Austria
- b) England and France
- c) Palestine and Israel
- d) Germany and Russia

Ans - B

37) Which of the following states is not likely to benefit from the Sardar Sarovar Project ?

- a) Andhra Pradesh
- b) Gujarat
- c) Rajasthan
- d) Madhya Pradesh

Ans - A

38) The sale proceeds of the Government Bonds come under the budget head of

- a) Revenue Receipts
- b) Current Expenditure
- c) Capital Outlay
- d) Capital Receipts

Ans - D

39) Which of the following are not fixed costs ?

- a) Rent on land
- b) Municipal taxes
- c) Wages paid to workers
- d) Insurance charges

Ans - C

40) If woolen cloth of red colour is seen in the light of a mercury vapour lamp, then the cloth will appear

- a) Black
- b) Red
- c) Green

d) Blue

Ans – A

Mathematics Questions Paper:

1) The difference between two positive numbers is 3. If the sum of their squares is 369, then the sum of the numbers is

- a) 81
- b) 33
- c) 27
- d) 25

Ans - C

2) A man rows a boat 18 km in 4 h downstream and returns upstream in 12 h. the speed of the stream (in km/h) is

- a) 1
- b) 1.5
- c) 2
- d) 1.75

Ans - B

3) A certain sum amount to Rs 5832 in 2 yr at 8% per annum compound interest, the sum is

- a) Rs 5000
- b) Rs 5200
- c) Rs 5280
- d) Rs 5400

Ans - A

4) The ratio in which two sugar solution of the concentrations 15% and 40% are to be mixed to get a solution of concentration 30% is

- a) 2 : 3
- b) 3 : 2
- c) 8 : 9
- d) 9 : 8

Ans - A

5) The height of a right circular cone is 84 cm and its base radius is 3.5. its volume is

- a) 3234 cm^3
- b) 1078 cm^3
- c) 2156 cm^3
- d) 2496 cm^3

Ans - B

6) Average age of A, B and C is 36 yr. if average age of B and C is 30 yr and age of B is 22 yr, then what is the sum of the ages of A and C ?

- a) 68 yr
- b) 86 yr
- c) 58 yr
- d) 61 yr

Ans - B

7) What the least number of five digits is exactly divisible by 41 ?

- a) 10045
- b) 10004
- c) 10041
- d) 10025

Ans - B

8) $(2\sin^2 30^\circ - 3\cos^2 45^\circ + \tan^2 60^\circ) = ?$

- a) 1
- b) 2
- c) 4
- d) 5

Ans - B

9) How many diagonals does a regular polygon of 15 sides ?

- a) 60
- b) 64
- c) 90
- d) 50

Ans - C

10) Expenditure on rent on rent is more than is more than that on miscellaneous purpose by

- a) 62.5%
- b) 75%

c) 25 1/3 %

d) 42 6/7 %

Ans - D

11) A man walking with $\frac{3}{4}$ of his usual speed, reaches office 20 min late. His usual time is

a) 50 min

b) 80 min

c) 70 min

d) 60 min

Ans - D

12) The average of 7 consecutive numbers is 20. The largest of these numbers is

a) 24

b) 23

c) 22

d) 20

Ans - B

13) If $(a - 1)^2 + (b + 2)^2 + (c + 1)^2 = 0$ then the value of $a - b + c$ is

a) 12

b) 3

c) - 11

d) 1

Ans - D

14) If $p = \frac{3}{5}$, $q = \frac{7}{9}$, $r = \frac{5}{7}$, then which of the following inequality is true ?

a) $p < q < r$

b) $q < r < p$

c) $p < r < q$

d) $r < q < p$

Ans - C

15) By selling an article for Rs 31 a shopkeeper loses 7%. If he sells the article for Rs 35, then what is gain or loss per cent?

a) Loss 3%

b) Gain 5%

c) Loss 5%

d) Gain 3%

Ans - B

16) If $x^2 + 5x - 2k$ is exactly divisible by $(x - 1)$, then the value of k is

a) 1

b) 2

c) 3

d) 4

Ans - C

17) The perimeter of 1 face of cube is 20 cm. its volume is

a) 115 cm^3

b) 125 cm^3

c) 120 cm^3

d) 110 cm^3

Ans - B

18) If sum of two numbers x and y is equal to double of x , then value of y will be

a) $y = x$

b) $> x$

c) $c < x$

d) negative number

Ans - A

19) If $3^{x+3} + 7 = 250$, then x is equal to

a) 1

b) 2

c) 3

d) 5

Ans - B

20) HCF of $x^2 - y^2$ and $x^3 - y^3$ is

a) $x - y$

b) $x^3 - y^3$

c) $(x^2 - y^2)$

d) $(x + y)(x^2 + xy + y^2)$

Ans - A

21) Find the place value of 4 in 46127.

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- (a) 4
- (b) 400
- (c) 40000
- (d) 4000
- (e) None of the above

Ans - C

22) The sum of the four consecutive even numbers is 284. What would be the smallest number?

- (a) 72
- (b) 74
- (c) 68
- (d) 66
- (e) None of the above

Ans - C

23) Find the sum of 1st and 2nd prime numbers.

- (a) 5
- (b) 3
- (c) 7
- (d) 2
- (e) None of the above

Ans - A

24) Find the difference of place value of 4 and face value of 3 in 3784105.

- (a) 3997
- (b) 1
- (c) 1000
- (d) 3845
- (e) None of the above

Ans - A

25) The number of all prime numbers less than 40 is ...

- (a) 15
- (b) 18
- (c) 17
- (d) 12

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- (e) None of the above

Ans - D

26) 16, 14, 24, 66, 250, 1270

- (a) 250
- (b) 66
- (c) 16
- (d) 1270
- (e) None of the above

Ans - A

27) 22, 23, 27, 36, 58, 77

- (a) 77
- (b) 58
- (c) 36
- (d) 22
- (e) None of the above

Ans - B

28) 4 23 113 449 1343 2681 7 A B C D E

Which number will come at the place of E?

- (a) 4793
- (b) 4782
- (c) 4841
- (d) 4932
- (e) None of the above

Ans - C

29) 9 57 337 1681 6721

7 A B C D E

Which number will come from the following at place of E?

- (a) 673
- (b) 3361
- (c) 13441
- (d) 17
- (e) None of the above

Ans - E

30) 1275 1307 1371 1467 1595 1755 972 A B C D E

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Which number will come at the place of D?

- (a) 1292
- (b) 550
- (c) 500
- (d) 462.5
- (e) None of the above

Ans - A

31) The average age of 30 students is 9 yr. If the age of their teacher is included, it becomes 10 yr. the age of the teacher (in yr) is

- a) 27
- b) 31
- c) 35
- d) 40

Ans - D

32) The average of 50 numbers is 38. If two numbers, namely 45 and 55 are discarded, the average of remaining numbers is

- a) 36.5
- b) 37
- c) 37.5
- d) 37.52

Ans – C

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33) The average of 11 observations is 60. If the average of first five observations is 58 and that of the last five is 56, then the sixth observation is

- a) 90
- b) 110
- c) 85
- d) 100

Ans - A

34) The average of two numbers is M. If one number is N, then the other number is

- a) 2N
- b) 2M
- c) $M - N$
- d) $2M - N$

Ans - D

35) The average age of a class is 15.8 yr. the average age of the boys in the class is 16.4 yr while that of the girls is 15.4 yr. what is the ratio of boys to girls in the class?

- a) 1:2
- b) 3:4
- c) 3:5
- d) None of these

Ans – D

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