

# BIHAR MERIT TEST EXAMINATION - 2020-21

## बिहार योग्यता जाँच परीक्षा-2020-21

पूर्णांक - 80  
समय - 90 मिनट  
वर्ग - VIII

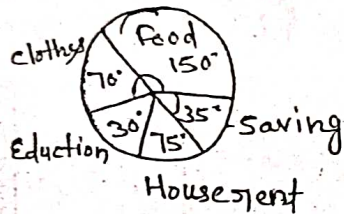
निर्देशक :-

- ☑ सभी प्रश्न वस्तुनिष्ठ हैं
- ☑ सभी प्रश्न का उत्तर देना अनिवार्य है।
- ☑ सभी प्रश्न एक 1 अंक का है।
- ☑ किसी भी प्रश्न का गलत जवाब देने पर कोई अंक कटा नहीं जाएगा।

1. If the number 947 is a multiple of 3 then  $y =$

- (A) 4 (B) 3 (C) 6 (D) 2 or 5 or 8

\* Observe the following circle-graph and answer the relate question.



2. On which head is the expenditure maximum?

- (A) food (B) clothes (C) House rent (D) Education

3. On which head is the expenditure minimum?

- (A) Education (B) House rent (C) food (D) clothes

4. If the budget of the family is Rs. 10800, What is the saving?

- (A) Rs 1050 (B) 1000 (C) 950 (D) 1200

5. What is the different of expenditures on clothes and education if the budget of the family is Rs 10800?

- (A) Rs 1500 (B) Rs 1000 (C) Rs 800 (D) Rs 1200

6. What is the sum of the expenditures on food and education if the budget of the family is Rs. 10800

- (A) Rs 5000 (B) Rs 8000 (C) Rs 5400 (D) Rs 6000

7. The factorisation of  $10x^2 - 18x^3 + 14x^4$  is  
 (A)  $2x^2(7x^2 - 9x + 5)$  (B)  $2x(7x^2 - 9x + 5)$  (C)  $2(7x^2 - 9x + 5)$   
 (D)  $2x^3(7x^2 - 9x + 5)$
8. 6 pipes are required to fill a tank in 1 hour 20 minutes, If we use 5 such types of pipes, how much time it will take to fill the tank.  
 (A) 120 minutes (B) 96 m (C) 80m (D) 85m
9. 384467000 is equal to  
 (A)  $3.84467 \times 10^8$  (B)  $3.84467 \times 10^3$  (C)  $3.84467 \times 10^7$   
 (D)  $3.84467 \times 10^6$
10. The area of a rhombus is  $60 \text{ cm}^2$  one diagonal is 10 cm the other diagonal is  
 (A) 6 cm (B) 12 cm (C) 3 cm (D) 24 cm
11. How many vertices does a triangular pyramid have  
 (A) 1 (B) 2 (C) 3 (D) 4
- ~~12. The net of a cone appears as:~~  
 (A) circle (B) Square (C) Rectangle (D) Triangle
13. A number increased by  $37\frac{1}{2}\%$  gives 33 the number is  
 (A) 27 (B) 25 (C) 24 (D) 22
14.  $21(30\% \text{ of } 80) / ? = 24$   $21\left(\frac{30}{100} \times \frac{1}{80}\right) = ?$   
 (A)  $3/10$  (B)  $3/17$  (C) 1 (D) 2  $\Rightarrow 21\left(\frac{3}{800}\right) = 24$   
 $\Rightarrow \frac{3}{800} = \frac{24-21}{800} = \frac{3}{800} = 3$
15. if the radius of a circle is decreased by 50% its area is reduced by.  
 (A) 25% (B) 50% (C) 75% (D) None
16. A fruit vendor gives 2 successive discounts of 10% and 14%. What is the overall discount given?  
 (A) 22.4% (B) 22.6% (C) 23.4% (D) 23.6%

17. If 80% of A = 50% of B and = x% of A then the value of x
- (A) 400 (B) 300 (C) 160 (D) 150
18. Find the compound interest on Rs 12000 for 3 years at 10% per annum compounded annually.
- (A) 3872 (B) 3972 (C) 3672 (D) 3772
19. A sum of money doubles itself at compound interest in 15 years. It will become 8 times in
- (A) 60 years (B) 40 years (C) 30 years (D) 45 years
20. Simple interest on Rs 1500 at 7% per annum for a certain time is Rs 210. Find the time.
- (A) 1.5 years (B) 3 years (C) 2.8 years (D) 2 years
21. Bhopal tragedy was caused due to
- (A) Air pollution (B) emission of poisonous gas  
(C) Water pollution (D) leakage of poisonous gas
22. Marble cancer is caused by.
- (A) Bacteria (B) virus (C) Acid rain (D) Alkali rain
23. — was the first Indian satellite.
- (A) INSAT (B) EDUSAT (C) IRS (D) Aryabhata
24. Which small objects revolve between the orbits of Mars and Jupiter.
- (A) Satellites (B) Comets (C) Asteroid (D) Meteorites
25. If the angle of incidence of light falling on a plane mirror is  $30^\circ$ , what will be the angle of reflection?
- (A)  $90^\circ$  (B)  $60^\circ$  (C)  $30^\circ$  (D)  $0^\circ$
26. How many types of charges are gained by rubbing objects.
- (A) 2 (B) 1 (C) 3 (D) 4

$$\frac{80\% \times 2}{100} = \frac{90\% \times 2}{100}$$

27. Which of the following occurs during lightning.
- (A) Acid rain (B) Nitrogen fixation (C) Green house effect  
(D) Earthing
28. Which of the following is not used for electroplating metal articles?
- (A) Nickel (B) Silver (C) Chromium (D) Sodium
29. In LEDs the longer lead (wire) is always connected to the — terminal.
- (A) Negative (B) Neutral (C) positive (D) Any terminal
30. The velocity of sound at 20°C is approximately
- (A) 3400 m/s (B) 340 m/s (C) 430 m/s (D) 304 m/s
31. Above — dB the sound becomes physically painful.
- (A) 60 (B) 40 (C) 120 (D) 80
32. Force of friction depends on —
- (A) Roughness of surface (B) Weight (C) Size (D) All others
33. Fluids are.
- (A) Liquids (B) Gases (C) Both A & B (D) None of these
34. Gravity is.
- (A) Repulsive (B) Attraction + Repulsive force (C) Attractive force  
(D) Not a force
35. The strength of force is expressed by its
- (A) Weight (B) Mass (C) Magnitude (D) Longitudinal force
36. Force changes the
- (A) Motion of body (B) Speed of body (C) Shape of body  
(D) All of these
37. Muscular force is also called — force
- (A) Non-contact (B) Contact (C) gravitational (D) Magnetic

38. Which of the following is a hermaphrodite animal  
A) elephant B) cow C) Dog D) earthworm
39. Amoeba reproduce by  
A) Budding B) Binary fission C) Vegetative propagation  
D) Multiple fission
40. Wood pulp is used for preparation of  
A) Polyester B) teflon C) rayon D) Nylon
41. — is widely populated due to its cultural significance  
A) New year B) Jerusalem C) London D) Sanghai
42. Average Density Population of the world is person per  
Sq Km  
A) 51 B) 55 C) 56 D) 50
43. Right to life come under article.  
A) 16 B) 20 C) 21 D) 17
44. Which word used for Pollution?  
A) Contamination B) Toxic C) Pure D) None
45. The law against child labour was implemented in  
A) 2001 B) 2003 C) 2005 D) 2006
46. The burden of shortfalls in water supply falls mostly on  
the  
A) Poor B) Rich C) Politician D) Lawyers
47. What literally means the original inhabitants?  
A) Ghetto B) Adivasis C) Droid D) Minorities
48. How many muslim are literate?  
A) 65% B) 59% C) 80% D) 94%
49. When was the Evm used for the first time  
A) 2007 B) 2003 C) 2004 D) 1990
50. What is cultivation of grapes called.  
A) Sericulture B) floriculture C) viticulture D) grapesiculture

51. Name the country with the largest reserve of iron ore -  
Ⓐ Canada Ⓑ France Ⓒ India Ⓓ Russia
52. Australia uses its largest portion of its area for -  
Ⓐ Pastures Ⓑ cropland Ⓒ forest Ⓓ other
53. In which year did J. L. Nehru establish the planning commission -  
Ⓐ 1965 Ⓑ 1950 Ⓒ 1958 Ⓓ 1960
54. Name the viceroy who was responsible for partitioning Bengal in 1905  
Ⓐ Lord Ripon Ⓑ Lord Mountbatten Ⓒ William Bentinck  
Ⓓ Lord Curzon
55. After 1857 for how many years no worship was not allowed?  
Ⓐ 5 Ⓑ 8 Ⓒ 10 Ⓓ 20
56. In which year did Delhi become the capital of British India?  
Ⓐ 1947 Ⓑ 1941 Ⓒ 1931 Ⓓ 1911
57. What is the literal meaning of the green word indigo?  
Ⓐ Blue Ⓑ Dye Ⓒ from India Ⓓ from England
58. In which year did Bengal witness the great famine  
Ⓐ 1770 Ⓑ 1775 Ⓒ 1777 Ⓓ 1778
59. In which year was the Dutch East India company formed?  
Ⓐ 1752 Ⓑ 1702 Ⓒ 1682 Ⓓ 1602
60. In which year was the English Education Act introduced in India?  
Ⓐ 1800 Ⓑ 1900 Ⓒ 1835 Ⓓ 1880
61. Contractor passed most of his school examination by  
Ⓐ hard work Ⓑ cramming Ⓒ only with some work  
Ⓓ copying

62. I am glad .... your success.  
 (A) at (B) with (C) to (D) for
63. He fell .... the horse.  
 (A) off (B) at (C) Against (D) off
64. You --- not go to Mumbai, the meeting is cancelled.  
 (A) can (B) will (C) need (D) May
65. I --- punish you for your rudeness.  
 (A) can (B) shall (C) would (D) will
66. You ---- run fast to catch the train.  
 (A) Must (B) should (C) can (D) will
67. He ran away ---- he saw me.  
 (A) when (B) then (C) and (D) as
68. He will starve --- will not steal.  
 (A) as (B) But (C) because (D) while
69. He is weak in English, he ---- work harder.  
 (A) had to (B) have to (C) has to (D) No
70. We ---- go for swimming lesson.  
 (A) had to (B) has to (C) have to (D) None
71. Besides their teachers, who helped the younger students.  
 (A) Parents (B) society (C) friends (D) Advanced student
72. What did the parrots remain the king of?  
 (A) Parrots (B) Nature (C) His daughters (D) His concillors
73. How many languages could they say 'Pretty polly'?  
 (A) five (B) seven (C) Nine (D) Eleven
74. Who is the writer of the story "Princess September"?  
 (A) Rudyard Kipling (B) Ravindranath Tagore (C) T.S. Eliot  
 (D) Somerset Maugham.

75. What is the full form of HC?

- (A) Hafeez contractor (B) Hafeez Chopra (C) Himansh contractor  
(D) None of these

76. I only take --- food.

- (A) Used (B) Leftovers (C) ~~was~~ untouched (D) covered.

77. How old was Venu?

- (A) Ten (B) Eleven (C) Twelve (D) Fourteen

78. The Dog went to the Camel.

- (A) Barking (B) running (C) with a stick (D) None of these

79. The phrase 'reach out' means

- (A) walk (B) Move your hand (C) Go out (D) Try to get

80. Who is the poet of poem "Geography Lesson"?

- (A) Zulfikar Ghose (B) Roald Dahl (C) Bha-vesh Bhabhkon  
(D) None of these.