

**Model Paper for Entry Test of Cadet Colleges/BRCs for Admission in
Class 8th**

Total Marks: 100

Time allowed: 03 hours

نوٹ: objective حصہ کے سوالات کے درست جوابات کے لیے OMR شیٹ پر دیے گئے دائروں کو بھریں جبکہ Subjective حصہ کے سوالات کے جوابات اسی کتابچہ میں لکھیں۔

Objective Portion (MCQs) (40 Marks)

Time allowed : One Hour

Choose the correct option:

- 1) Giving human qualities to non-human things is called _____.
(A) metaphor (B) hyperbole (C) irony (D) personification
- 2) The adjective formed from "beauty" is _____.
(A) beautify (B) beautiful (C) beautifully (D) beautician
- 3) The plural of "babysitter" is _____.
(A) babysitters (B) babiessitters (C) babysitter's (D) babysitteres
- 4) The prefix "micro-" means _____.
(A) large (B) small (C) beyond (D) against
- 5) A linking verb is _____.
(A) run (B) write (C) eat (D) seem
- 6) Hazrat Umar (RA) lived his personal life:
(A) with luxury (B) in a palace
(C) simply and humbly (D) traveling for trade
- 7) In the poem, hope is compared to:
(A) feather (B) cloud (C) bird (D) star
- 8) The main economic activity in Mehrgarh was:
(A) fishing (B) farming (C) metalworking (D) hunting
- 9) Reading books serves as a:
(A) knowledge highway (B) waste of time
(C) boring activity (D) difficult task
- 10) A prepositional phrase consists of a preposition and its _____.
(A) subject (B) object (C) verb (D) adverb

11) In root system, surface area for absorption of water is increased by:

(a) Root cuticle	(b) Root hairs	(c) Root cap	(d) Phloem in root
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12) The organ which controls the entrance of food and air in the relevant tubes is called:			
(A) Throat	(B) Larynx	(C) Epiglottis	(D) Trachea
13) The ability of our body to fight against diseases is called:			
(A) Enzyme Specificity	(B) Chemical Reactivity	(C) Immunity	(D) Scarcity
14) The maximum number of electrons in third shell (M) around the nucleus is:			
(A) 8	(B) 10	(C) 18	(D) 32
15) An example of chemical change is:			
(A) Boiling Of Water	(B) Production Of Energy From Food		
(C) Dissolution Of Salt In Water	(D) Freezing Of Water		
16) How many electrons are present in the outermost shell of chlorine atom?			
(A) 1	(B) 2	(C) 6	(D) 7
17) A solution in which no more solute can dissolve at a fixed temperature is called:			
(A) Supersaturated Solution	(B) Unsaturated Solution		
(C) Saturated Solution	(D) Homogeneous Solution		
18) The SI unit of force is:			
(A) Newton	(B) Metre Per Second	(C) Metre	(D) Kilometre
19) Which type of wave does NOT need a medium to travel through?			
(A) Mechanical Wave	(B) Electromagnetic Wave		
(C) Sound Wave	(D) Transverse Wave		
20) Heat flows:			
(A) From Cold Region To Hot Object	(B) From Hot Region To Cold Region		
(C) From Ice To Liquid Water	(D) Does Not Flow		

21)	شامل نصاب حمد باری تعالیٰ کے شاعر ہیں:		
A) احسان دانش	B) جمیل الدین علی	C) ڈاکٹر محمد علامہ اقبال	D) ڈاکٹر محمد امین
22)	اصنافِ ادب کی کتنی اقسام ہیں؟		
A) ایک	B) دو	C) تین	D) چار

23)	ڈاکٹر عبدالقدیر خان کا انتقال ہوا:		
A) 7 اکتوبر 2021	B) 5 اکتوبر 2021	C) 10 اکتوبر 2021	D) 9 اکتوبر 2021
24)	حوالدار لالک جان شہید کو اعزاز عطا کیا گیا:		
A) نشان حیدر	B) تمغہ ہلال	C) تمغہ امتیاز	D) ستارہ جرات
25)	شامل نصاب نظم "یارب دل مسلم" میں شاعر دلِ مسلم کو کیا عطا کرنے کی دعا کرتا ہے؟		
A) سکون و راحت	B) عزت و شہرت	C) زندہ تمنا	D) دولت و ثروت
26)	نظم "ہمارا وطن" میں کس نشان کی بات کی گئی ہے؟		
A) قومی لباس	B) قومی ترانہ	C) پرچم	D) چاند ستارا
27)	چچا چھکن نے بچوں کو پڑھانے کے لیے کیا طریقہ اختیار کیا؟		
A) شوخی و شرارت کا	B) سختی کا	C) نرمی و محبت کا	D) کھیل کا
28)	شاعر کی جمع کیا ہے؟		
A) شاعری	B) شعرا	C) شاعروں	D) اشعار
29)	اسلام سے پہلے حقیر سمجھا جاتا تھا:		
A) بوڑھوں کو	B) بچوں کو	C) عورتوں کو	D) مردوں کو
30)	دو انگریزوں نے غبارے میں بیٹھ کر انگلستان کو پار کیا:		
A) 1788ء	B) 1787ء	C) 1786ء	D) 1785ء

31) Identify the smallest rational number.

A) $\frac{1}{2}$

B) $\frac{2}{15}$

C) $\frac{4}{5}$

D) $\frac{5}{6}$

32) Find increase 80 in the ratio of 5:4.

A) 90

B) 100

C) 70

D) 80

33) Round off $\frac{35}{8}$ to 3 decimal places.

A) 4.375

B) 4.265

C) 4.475

D) 4.365

34) Bilal bought a toy car for Rs. 3000 and sold it for Rs. 2500. Find its loss percentage.

A) 10.6%

B) 14.6%

C) 15.6%

D) 16.67%

35) The product of $(9x + 1)(9x - 2)$ is:

A) $81x^2 - 9x - 2$

B) $81x^2 - 4$

C) $81x^2 + 9x + 1$

D) $81x - 9x + 3$

36) The pair $(-2, 3)$ lies in which quadrant?

A) First Quadrant

B) Second Quadrant

C) Third Quadrant

D) Fourth Quadrant

37) Convert 18 minutes 30 seconds into seconds.

A) 1070 Seconds

B) 1080 Seconds

C) 1110 Seconds

D) 1090 Seconds

38) A quadrilateral which has four equal sides in length and has four angles but no right angle is called:

- A) Trapezium B) Rhombus
- C) Parallelogram D) Rectangle

39) Which of the following is an impossible event?

- A) Earth is a planet
B) Sun rises from east
C) Sun is a planet
D) Earth revolves around sun

40) If a circle has a diameter of 4.6cm. What is its circumference?

- A) 14.46 cm B) 15.5 cm
C) 16.46 cm D) 30 cm

Subjective Portion (MCQs) (60 Marks) Time allowed : Two Hours

English Portion

Subjective Portion (60 Marks) **Time Allowed : 2 hour and 10 min**

Short Answer Questions

Answer any five (05) of the following Questions. (2 x 5 = 10 Marks)

- I. What administrative reforms did Hazrat Umar Farooq (RA) introduce to improve governance?
- II. Explain the four types of sentences (declarative, exclamatory, interrogative, imperative) with examples.
- III. Why was Mehrgarh considered one of the earliest farming settlements in South Asia?
- IV. How does regular reading contribute to vocabulary and communication skills?
- V. What environmental changes are described in the poem "Warned"?
- VI. What is the historical significance of Dureji?

- VII. Why was the minister distressed when the king ordered him to build a palace from top to bottom?

Long Answer Questions

Q.No.3: Describe the qualities of the minister that impressed the king. What lesson does the story convey about wisdom and humility?

Or

(05 Marks)

Discuss the good and bad impacts of social media. How can we use social media positively?

General Science Portion

SECTION B: Short Answer Questions

Q. Define photosynthesis and write its word equation.

OR

(03 Marks)

What is meant by circulatory system? Name its main components.

Q. Define the following: (a) Antigens (b) Antibodies.

OR

(03 Marks)

Differentiate between proton and electron.

SECTION C: Descriptive Answer Questions

Q. Describe the factors that affect transpiration.

OR

(04 Marks)

Explain the internal structure of leaf.

Q. Describe the factors affecting solubility and explain the importance of solutions in daily life.

OR

(05 Marks)

Describe the process of drip and sprinkler irrigation systems. How do these technologies help in water conservation?

Urdu Portion

(حصہ دوم: مختصر سوالات)

نوٹ: درج ذیل 7 سوالات میں سے 5 سوالات کے جواب دیں، ہر سوال 2 نمبر کا ہے۔ اس حصے کے کل نمبر: $(2 \times 5 = 10)$

مندرجہ ذیل کے مختصر جوابات لکھیں:

سوال نمبر 1: اسم کی تعریف مثال کے ساتھ لکھیں؟

سوال نمبر 2: تخلص کسے کہتے ہیں، کسی شعری مثال کے ساتھ وضاحت کریں۔

سوال نمبر 3: چچا چھکن نے تیمارداری کی، یہ سبق صنف ادب کے لحاظ سے کیا ہے؟

سوال نمبر 4: آپ اپنے اندر شاہین جیسی صفات کیسے پیدا کر سکتے ہیں؟

سوال نمبر 5: غازیوں کی کرامات سے کیا مراد ہے؟

سوال نمبر 6: ٹریفک کے اشارے کس لیے بنائے جاتے ہیں؟

سوال نمبر 7: متشابہ الفاظ کی تعریف لکھیں، نیز دو مثالیں بھی دیں۔

(حصہ سوم: طویل و تفصیلی سوالات)

نوٹ: درج ذیل میں سے کسی ایک سوال کا جواب درکار ہے۔ اس حصے کے کل نمبر: $(5 \times 1 = 5)$

سوال: وقت کی پابندی پر مضمون لکھیں۔

یا

اپنے دوست کو خط لکھیں، جس میں اسے گرمیوں کی چھٹیوں میں کوئٹہ کی تاریخی عمارات کی سیر کی دعوت دیں۔

Mathematics Portion

Q.No.1: Find value of x , if $7:5 :: x:20$

OR (03 Marks)

Find square root of $\frac{36}{169}$ by division method.

Q.No.2: Find the sum of interior angles of a regular hexagon.

OR (03 Marks)

If $U = \{x / x \in Z \wedge 0 \leq x \leq 20\}$ and $A = \{x / x \in E \wedge 4 \leq x < 20\}$.
Find A^c .

Q.No.3: Factorize $5p^2 + 7pr - 21qr - 15pq$. **(04 Marks)**

OR

Calculate the mean of temperature in C° of 11 different countries are given below

45, 30, 32, 35, 25, 40, 41, 42, 29, 37, 33

Q.No.4: A cylinder water tank has a diameter of 3.1 metres, depth of the water tank is 4.5 metres. Calculate the capacity of the tank.

OR (05 Marks)

Ali earns a monthly income of Rs. 250,000 from his business. Calculate his annual income tax liability based on the 2024-2025 tax slabs.

The End