Doon Public School

A New Generation Sr. Sec. School | Recognised & Affiliated to CBSE

Sector 21, Panchkula - 134112 (Haryana)

SUMMER BREAK ASSIGNMENTS

SESSION : 2025 - 2026

Class – VII

Dear Doonites

As the summer sun rises high,

And the school gates close for a while,

it's time for a well-deserved pause—your summer vacation is here! 🏖️ This is the perfect season to relax, refresh, and recharge but also to grow, explore, and discover new things about yourself and the world around you.

While you enjoy the break from the regular school routine, we encourage you to make your days meaningful by blending fun with a bit of learning, movement, and creativity.

📚 **Stay Academically Curious:**

Pick up books that spark your imagination or revisit topics that challenged you. A little daily revision will go a long way in keeping your mind sharp and ready.

🚶🚲 **Stay Active:**

Step outside, play a sport, go cycling, or dance like nobody's watching! Keep your body moving and your energy flowing. Balance screen time with green time.

🔍 **Discover Something New:**

Learn a hobby—be it painting, coding, gardening, music, or cooking. Every new skill adds a little sparkle to your personality.
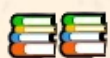
⏰ **Stick to a Simple Routine:**

Rest well, wake up fresh, and make time for your family and friends. These little things help you create cherished memories and meaningful connections.

📖 **Take Care of Your Mind:**

Unplug, breathe, reflect. Try meditation or yoga to find calmness within and balance in life.

📚 **Vacation Work:**

Don't worry—it's not about pressure or grades. It's about joyful learning, creativity, and exploring subjects in a relaxed, thoughtful way. Use this as an opportunity to reflect, revise, and get ready for the next phase with confidence.

Special Days to Celebrate and Reflect:

🌱 June 5 – World Environment Day: Be a young guardian of our planet. Plant a tree, say no to plastic.

👨‍👦 June 16 – Father's Day: Celebrate the love and support of your dad or a father figure. A heartfelt gesture or a simple 'thank you' can mean the world.

🧘 June 21 – International Yoga Day: Discover the magic of yoga. Practice, stretch, breathe—and feel the peace within you.
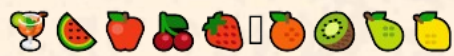
Dear students

Make this vacation not just a break, but a beautiful chapter in your life filled with joy, insight, and self-growth. Collect moments, not just marks.

We can't wait to hear your stories, see your creativity, and celebrate your discoveries when you're back!

Until then, stay safe, stay kind, and enjoy every sunshine-filled day.

Wishing you a joyful, rejuvenating, and inspiring summer vacation!

🍹🍉🍎🍒🍓🥛🍊🥝🍈🍋

Warm Regards

Team Doon

HERE'S YOUR HOLIDAY ASSIGNMENT

English	Use your artistic skills to create a poster on the topic - Equality for all: No room for discrimination.
Hindi	'समानता का महत्व और उसका प्रभाव' विषय पर 100 से 120 शब्दों में अनुच्छेद लिखें
Punjabi	'ਸਮਾਨਤਾ' ਵਿਸ਼ੇ 'ਤੇ ਇੱਕ ਨਾਅਰਾ ਲਿਖੋ ।
Sanskrit	ग्रामविषयकं एकं चित्रं चित्रयत्, तस्मात् सम्बद्धानि पञ्च वाक्यानि संस्कृतेन लिखत।" "गांव का एक चित्र बनाइए और उससे संबंधित पांच पंक्तियां संस्कृत में लिखिए।"
Mathematics	Explain how equality contributes to symmetry, using real-world examples, and illustrate symmetry through diagrams or drawings.
Science	Investigate the effects of nutrients deficiency in plants. Compare healthy and nutrient deficient plants and list the basic requirements for plant growth. Support your findings by using relevant images.
Social Science	Explore the concept of digital divide and discuss whether all students in India have equal access to digital education. What are the implications and potential solutions?
Ek Bharat Shresth Bharat	Name and paste pictures of the State Dances of Haryana and Telangana. Also, mention the folk/traditional dresses worn by the performers while performing these dances.

NOTE: THE ABOVE-MENTIONED WORK FOR ALL SUBJECTS MUST BE DONE ON A4 SHEETS AND PLACED IN INDIVIDUAL PORTFOLIOS. USE YOUR CREATIVE AND ARTISTIC SKILLS TO ENHANCE THE PRESENTATION.

Computer Science	1) Design a Result Analysis Sheet of minimum 10 students and calculate total, Percentage and Rank . **DOON PUBLIC SCHOOL** **RESULT ANALYSIS SHEET CLASS VII** **SESSION 2025-26**<table><tr><td>Rollno.</td><td>Name</td><td>Eng</td><td>Hindi</td><td>maths</td><td>SST</td><td>GSC</td><td>Total</td><td>%age</td><td>RANK</td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> 2) Convert result of each student in Pie chart and Bar diagram. Also do the formatting of chart. 3) Submit your work in a pendrive. Also take a printout of your final output and paste in the computer science notebook.
Art & Craft	**Create the best out of waste ideas.** 1. Design a meaningful or artistic product using old or discarded items. Ideas can include organisers, planters, decorative pieces or festival crafts. 2. Design and create an art or utility item using jute e.g. jute bag, coaster, wall hanging, pen stand etc. Material may include jute fabric/rope, glue, lace, paint and decorative elements.

Subject- English Language & Literature

1. Answer the following questions with reference to the context:
The hermit lived in a wood which he never left. He saw no one but simple people, and so the king put on ordinary clothes. Before he reached the hermit's hut the king left his horse with his bodyguard, and went on alone. As the king came near the hermit's hut, he saw the hermit digging the ground in front of his hut. He greeted the king and continued digging. The hermit was old and weak, and as he worked, he breathed heavily.
a) Why did the king visit the hermit?
b) Why did the king wear ordinary clothes?

2. Answer the following questions with reference to the poem:
When everybody says, Yes please,
The rebel says, No thank you.
When everybody says, No thank you,
The rebel says, Yes please.
It is very good that we have rebels.
You may not find it very good to be one.
a)   Why does the poet say it is not good to be a rebel?
b)   What does the rebel do?

3. Choose the option that completes the sentence meaningfully.
_____ pair of jeans has been reserved by that young man.
Please get yourself another pair.
a. Some
b. This
c. These
d. Those

4. Choose the correct word to complete the sentence below.
She is a _____ active player rather than a skilful one.
a. skilled
b. physically
c. properly
d. vigorous

5. Choose the correct word to complete the sentence.

My _____ is visiting tomorrow. I 've baked a chocolate cake for her.

a. brother

b. uncle

c. niece

d. Father

6. Choose the correct option for the sentences below.

Return that to _____. _____ mine.

a. me-Its

b. me-It's

c. him-Its'

d. her-It's

7. Which of these nouns does NOT take "-es" at the end to change into plural?

a. tomato

b. mosquito

c. hero

d. photo

8. Which word in the sentence below describes a noun?

Anita hurriedly took out money to pay for the dozen eggs she had bought.

a. hurriedly

b. money

c. dozen

d. bought

9. Choose the option that best completes the given sentence.

Among all employees here, Madhu does her work _____.She never loses any of her things.

a. Careful

b. more carefully

c. most carefullest

d. most carefully

10. Choose the sentence that is complete.

a. The highest wall in the village.

b. Trusting Uma to tell the truth

c. The pretty girls who can't sing.

d. Some children sang songs.

11. Choose the option that correctly completes the given sentence.
Kerala,_____ has beautiful beaches, is a popular tourist destination.
a. who
b. that
c. what
d. which

12. Which word best completes the given sentence?
Isn't there a boy in your class _____ family is in Kuwait?
a. who
b. whose
c. what
d. which

13. Choose the option in which the underlined word is an adjective.
a. He has never broken his promise.
b. He is always promising big things to the kid.
c. That was a promising performance by the students.
d. You can promise all you want, I won't believe you.

John gave Lucy a book for her birthday.
14. Which part of the above sentence has a pronoun?
a. John
b. gave Lucy
c. a book
d. for her birthday

15. Alex is a member of the committee for this month.
The underlined portion of the sentence is a/an_____.
a. common noun
b. collective noun
c. abstract noun
d. proper noun

Hindi

1. पंछी किसे अपना मार्ग बनाते हैं?
क) धरती
ख) बादल
ग) आंधी
घ) सूरज

2. हम पंछी उन्मुक्त गगन के में 'उन्मुक्त शब्द का अर्थ क्या है?
क) उड़ने वाले
ख) सुंदर
ग) स्वच्छंद / स्वतंत्र
घ) ऊँचे

3. कविता में पंछी किसे नहीं चाहते ?
क) आंधी
ख) घोंसला
ग) बंधन
घ) पेड़

4. हिमालय की बेटियाँ" पाठ में 'हिमालय की बेटियाँ' से आशय किससे है?
क) गाँव की लड़कियाँ
ख) पर्वतारोही महिलाएँ
ग) शिक्षित महिलाएँ
घ) विदेश यात्रा करने वाली महिलाएँ

5. हिमालय की बेटियाँ पाठ का मुख्य संदेश क्या है?
क) शिक्षा का महत्व
ख) महिलाओं की स्वतंत्रता
ग) साहस और संघर्ष से सफलता
घ) खेलकूद में भागीदारी

6. कठपुतली को देखने वाले लोग क्या करते हैं?
क) रोते हैं
ख) चिल्लाते हैं
ग) हँसते और ताली बजाते हैं
घ) डरते हैं

7. कविता में कौन-सा भाव प्रमुख रूप से प्रकट होता है?
क) स्वतंत्रता का
ख) दुःख और विवशता का
ग) आनंद का
घ) क्रोध का

8. कठपुतली किसकी प्रतीक मानी जा सकती है?
क) एक स्वतंत्र आत्मा की
ख) समाज में नियंत्रित व्यक्ति की

ग) कलाकार की
घ) शिक्षक की

9. भाषा और लिपि में क्या अंतर है?
क) दोनों एक ही हैं
ख) भाषा बोली जाती है, लिपि लिखी जाती है
ग) भाषा लिखी जाती है, लिपि बोली जाती है
घ) कोई अंतर नहीं

10. वर्ण विच्छेद करते समय किसका ध्यान रखना चाहिए?
क) केवल ध्वनि का
ख) व्याकरण का
ग) उच्चारण और संधि का
घ) लिपि का

11. शब्द 'प्रकाश' में कितने वर्ण हैं?
क) 4
ख) 5
ग) 6
घ) 3

12. धैर्य का विलोम क्या है?
क) डर
ख) क्रोध
ग) अधीरता
घ) चिंता

13. गंगा' का पर्यायवाची शब्द क्या है?
क) सरस्वती
ख) भागीरथी
ग) नर्मदा
घ) यमुना

14. 'मनुष्य' का पर्यायवाची क्या है?
क) जीव
ख) नर
ग) आत्मा
घ) देवता

15. चंद्रमा' का पर्यायवाची शब्द क्या है?
क) सूरज
ख) रजनीश
ग) दिनकर
घ) प्रभात

Punjabi

1. ਅੰਬਰ ਕਿਸ ਜਮਾਤ ਵਿੱਚ ਪੜ੍ਹਦਾ ਸੀ ?

ੳ) ਦੂਜੀ

ਅ) ਤੀਜੀ

ੲ) ਪੰਜਵੀਂ

ਸ) ਛੇਵੀਂ

2. ਪ੍ਰੀਤੀ ਦੇ ਭਰਾ ਦਾ ਕੀ ਨਾਂ ਸੀ?

ੳ) ਆਕਾਸ਼

ਅ) ਅਮਨ

ੲ) ਅੰਬਰ

ਸ) ਆਸ਼ੀਸ਼

3. ਮੰਮੀ ਪਲੇਟ ਵਿੱਚ ਕੀ ਲੈ ਕੇ ਆਏ ਸਨ?

ੳ) ਸੇਬ

ਅ) ਕੇਲੇ

ੲ) ਸਲਾਦ

ਸ) ਅਮਰੂਦ

4. ਸਬਜੀ ਵਾਲਾ ਭਾਈ ਬਣ ਕੇ ਹੋਕਾ ਕਿਸ ਨੇ ਦਿੱਤਾ ਸੀ?

ੳ) ਪਾਪਾ ਨੇ

ਅ) ਪ੍ਰੀਤੀ ਨੇ

ੲ) ਆਕਾਸ਼ ਨੇ

ਸ) ਅੰਬਰ ਨੇ

5. ਰੁੱਖ ਦਾ ਕੀ ਅਰਥ ਹੈ?

ੳ) ਦਰਖ਼ਤ

ਅ) ਰੁੱਖਾ

ੲ) ਸੁੱਕ ਜਾਣਾ

ਸ) ਰੋਣਾ

6. ਆਲੂ ਅਤੇ ਗਾਜਰ ਕਿੱਥੇ ਉੱਗਦੇ ਹਨ?

    ੳ) ਰੁੱਖਾਂ ਤੇ

    ਅ) ਵੇਲਾਂ ਤੇ

    ੲ) ਧਰਤੀ ਹੇਠਾਂ

    ਸ) ਇਹਨਾਂ ਵਿੱਚੋਂ ਕੋਈ ਨਹੀਂ

7. ਸ਼ੇਰ ਨੂੰ ਕਿਸ ਉੱਤੇ ਤਰਸ ਆ ਗਿਆ ਸੀ?

    ੳ) ਚੂਹੀ ਉੱਤੇ

    ਅ) ਖਰਗੋਸ਼ ਉੱਤੇ

    ੲ) ਬਾਂਦਰ ਉੱਤੇ

    ਹ) ਹਾਥੀ ਉੱਤੇ

8. ਜੰਗਲ ਵਿੱਚ ਇੱਕ ਰੁੱਖ ਦੀ ਛਾਵੇਂ ਕੌਣ ਸੁੱਤਾ ਪਿਆ ਸੀ?

    ੳ) ਹਾਥੀ

    ਅ) ਸ਼ੇਰ

    ੲ) ਖਰਗੋਸ਼

    ਸ) ਸ਼ਿਕਾਰੀ

9. ਸਾਡਾ ਦੇਸ਼ ਕਿਹੜਾ ਹੈ?

    ੳ) ਪੰਜਾਬ

    ਅ) ਭਾਰਤ

    ੲ) ਅਮਰੀਕਾ

    ਸ) ਕਨੇਡਾ

10. ਅਸੀਂ ਵੱਡੇ ਹੋ ਕੇ ਕਿਹੋ ਜਿਹੇ ਕੰਮ ਕਰਾਂਗੇ?

    ੳ) ਵੱਡੇ-ਵੱਡੇ

    ਅ) ਨਿੱਕੇ-ਨਿੱਕੇ

    ੲ) ਮੋਟੇ-ਮੋਟੇ

    ਸ) ਇਹਨਾਂ ਵਿੱਚੋਂ ਕੋਈ ਨਹੀਂ

11. ਪੰਜਾਬੀ /ਗੁਰਮੁਖੀ ਦੇ ਦੁੱਤ ਅੱਖਰਾਂ ਦੀ ਗਿਣਤੀ ਕਿੰਨੀ ਹੈ?

    ੳ) ਦੋ

    ਅ) ਤਿੰਨ

    ੲ) ਚਾਰ

    ਸ) ਪੰਜ

12. ਪੰਜਾਬੀ ਵਰਨਮਾਲਾ ਵਿੱਚ ਕਿੰਨੇ ਅੱਖਰ ਹੁੰਦੇ ਹਨ?

ੳ) 45

ਅ) 46

ੲ) 41

ਸ) 42

13. ਕਿਸੇ ਭਾਸ਼ਾ ਨੂੰ ਸਿੱਖਣ ਲਈ ਸਭ ਤੋਂ ਪਹਿਲਾਂ ਕਿਸ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕਰਨਾ ਪੈਂਦਾ ਹੈ?

ੳ) ਅੱਖਰਾਂ ਦਾ

ਅ) ਸ਼ਬਦਾਂ ਦਾ

ੲ) ਲਗਾਂ ਦਾ

ਸ) ਵਾਕਾਂ ਦਾ

14. ਪੰਜਾਬੀ ਅੱਖਰਮਾਲਾ ਦੇ ਕਿੰਨੇ ਅੱਖਰਾਂ ਦੇ ਪੈਰ ਵਿੱਚ ਬਿੰਦੀ ਪਾਈ ਜਾਂਦੀ ਹੈ?

ੳ) ਦੋ

ਅ) ਚਾਰ

ੲ) ਪੰਜ

ਸ) ਛੇ

15. ਪੰਜਾਬੀ ਵਰਨਮਾਲਾ ਨੂੰ ਕਿੰਨੇ ਵਰਗਾਂ ਵਿੱਚ ਵੰਡਿਆ ਗਿਆ ਹੈ?

ੳ) ਚਾਰ

ਅ) ਪੰਜ

ੲ) ਸੱਤ

ਸ) ਅੱਠ

Sanskrit

1. षष्ठिः' इत्यस्य संस्कृताङ्करूपं किम् ?

क) 60

ख) 16

ग) 66

घ) 6

2. चत्वारिंशत् + पञ्च = ? (संस्कृत संख्यया उत्तरं सूचयत)

क) अर्धशतं

ख) नवतिः

ग) पञ्चचत्वारिंशत्

घ) एकविंशतिः

3. षट्त्रिंशत्' इत्येतत् कियत्?

क) 36

ख) 26

ग) 16

घ) 46

4. गोदोहनम्' इत्यस्य अर्थः कः?

क) गवां पालनम्

ख) गवां विक्रयः

ग) गवां दुग्धदोहः

घ) गवां पूजनम्

5. वसन्तः कस्य प्रेरकः अस्ति इति कविना उक्तम् ?

क) केवलं कवीनाम्

ख) बालकानाम्

ग) सर्वेषां जनानाम्

घ) कृषकानाम्

6. "वनानि हर्ष वदन्ति" इत्यत्र कः अलङ्कारः अस्ति?

क) उपमा

ख) अनुप्रासः

ग) रूपकः

घ) मानवीकरणम्

7. भारतवसन्तगीतिः" पाठे कस्य ऋतेः वर्णनं कृतम् अस्ति ?

क) शरद्रतोः

ख) ग्रीष्मृतोः

ग) वसन्तृतोः

घ) वर्षर्तोः

8. वसन्तः ऋतुः कथं वर्णितः अस्ति?

क) दुःखस्य प्रतीकः

ख) संग्रामस्य समयः

ग) सौन्दर्यस्य च उल्लासस्य प्रतीकः

घ) शून्यकालः

9. काकः स्वर्णं प्रति किम् भावं दर्शयति ?

क) लोभः

ख) त्यागः

ग) क्रोधः

घ) भयं

10. काकः किमर्थं स्वर्णपक्षान् त्यक्तवान्?

क) शोभां न इच्छति स्म

ख) दुःखेन पीडितः आसीत्

ग) लोभिनः जनान् दुःखितान् दृष्ट्वा

घ) आकाशे उड्डुयितुं न शक्नोति स्म

11. स्वर्णकाकः" कथायाः मुख्यः पात्रम् कः अस्ति?

क) मयूरः

ख) काकः

ग) मूषकः

घ) सिंहः

12. काकः केन आच्छादितः आसीत् ?

क) चन्द्रकान्तमणिना

ख) रजतेन

ग) सुवर्णेन

घ) पुष्पैः

13. सत्यव्रतः यदा याचते तदा सः किम् वदति ?

क) धनं यच्छ

ख) गवां शतं देहि

ग) एकां गोदोहनं मातरं देहि

घ) गवां भोजनं देहि

14. खेल्" धातोः लोट् लकारे मध्यमपुरुषः एकवचनं किम् ?

क) खेलतु

ख) खेलाम

ग) खेले

घ) खेल

15. गोदोहनम् पाठस्य मुख्यं संदेशः कः अस्ति?

क) लोभस्य अनर्थः

ख) दानस्य महत्त्वम्

ग) धनस्य संग्रहः

घ) कृषेः महत्त्वम्

Mathematics

1. A company's revenue decreases by ₹2000 per month for 6 consecutive months due to market conditions.

   What is the total reduction in revenue after 6 months?

   a. ₹10,000

   b. ₹12,000

   c. ₹-12,000

   d. ₹-10,000

2. **Which of the following statements is correct about the identity element of multiplication for integers?**
   a. The identity element of multiplication is always negative.
   b. Multiplying any integer by 1 gives the same integer.
   c. The identity element for multiplication is 0.
   d. Every integer has an additive identity but no multiplicative identity.

3. **Which of the following comparisons is incorrect?**
   a. $(-8) \times (-5) > 8 \times (-5)$
   b. $(-12) \div 4 < (-12) \div (-4)$
   c. $(-7) - (-2) < (-7) + (-2)$
   d. $0 \times (-5) = 0$

4. **Which of the following shows the distributive property correctly?**
   a. $5 \times (3 + 2) = (5 \times 3) + (5 \times 2)$
   b. $(5 + 3) \times 2 = 5 + (3 \times 2)$
   c. $5 \times 3 + 2 = 5 \times (3 + 2)$
   d. None of these

5. **What is the multiplicative inverse of -5?**
   a. 5
   b. 1/5
   c. -1/5
   d. -1

6. **Which of the following is NOT true for decimal multiplication?**
   a. The product of two decimals may be greater than both numbers
   b. The product of two decimals may be smaller than both numbers
   c. The product of a decimal and a whole number is always a whole number
   d. None of the above

7. **If a train travels 56.75 km in an hour, how far will it travel in 2.5 hours?**
   a. 141.75 km
   b. 135.25 km
   c. 142.75 km
   d. 140.25 km

8. If the length of a rectangular field is $\frac{5}{8}$ km and the width is $\frac{3}{4}$ km, then the area is:

   a. $\frac{15}{32}$ square km

   b. $\frac{18}{32}$ square km

   c. $\frac{12}{32}$ square km

   d. $\frac{25}{32}$ square km

9. The product of two fractions is $\frac{5}{12}$. If one fraction is $\frac{5}{6}$, what is the other fraction?

   a. $\frac{1}{2}$

   b. $\frac{2}{5}$

   c. $\frac{1}{6}$

   d. $\frac{3}{10}$

10. Which of the following equations correctly represents decimal multiplication?

   a. $0.3 \times 0.5 = 1.5$

   b. $0.3 \times 0.5 = 0.15$

   c. $3.0 \times 0.5 = 3.5$

   d. $3.0 \times 0.5 = 2.5$

11. A shape has rotational symmetry of order 5. How many times does it look the same in a full rotation?

   a. 2

   b. 3

   c. 5

   d. 10

12. What is the angle of rotation of an equilateral triangle?

   a. 30°

   b. 60°

   c. 90°

   d. 120 °

13. Which of the following figures has rotational symmetry of order 4?
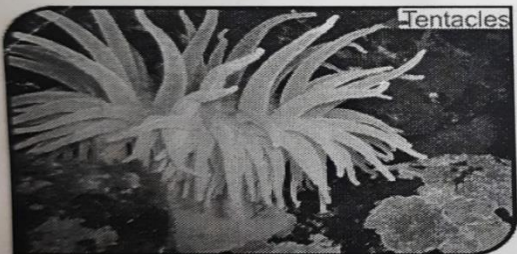   a. Rectangle
   b. Square
   c. Triangle
   d. Pentagon

14. If a figure is folded along its line of symmetry, what happens?
   a. The two parts overlap perfectly
   b. The two parts remain different
   c. The shape changes its size
   d. None of the above

15. Which alphabet does NOT have a line of symmetry?
   a. M
   b. N
   c. A
   d. H

Science

Tentacles

Sea anemone
- An animal that lives at the bottom of the sea.
- Feeds by stinging animals with its tentacles and eating them.

Clownfish
- The only fish that does not get stung by the sea anemone.
- A slimy mucus covering its body protects it from the sea anemone. If this layer is rubbed off it will get stung and killed.

1. The clownfish eats the fish and algae leftovers of the food of the sea anemone.
   - The sea anemone are provided with better water circulation as the

clownfish fan their fins while swimming about.

Which of these BEST describes the relationship between the clownfish and the sea anemone?

    a. Clownfish feed on sea anemone.

    b. Sea anemones feed on clownfish.

    c. Sea anemones cannot survive without the clownfish.

    d. Sea anemones and clownfish benefit from each other.

2. The following points provides information on the traits of an insectivorous plant.

    (i) It is green in colour.

    (ii) The body of the plant consists of a lid and pitcher.

    (iii) It traps the insects and digests them by secreting digestive juices.

Based on these characteristics, what could be the probable mode of nutrition of this plant?

    a. Autotrophic

    b. Autotrophic and heterotrophic

    c. Both autotrophic and saprotrophic

    d. Both heterotrophic and saprotrophic

3. Given below is a picture of a carnivorous plant called bladderwort mostly found in the marsh lands of Florida in North America.

2003 © Peter M. Dziuk

    a. They obtain nitrogen directly from the air.

    b. They obtain nitrogen from the decaying matter.

    c. They obtain nitrogen from the trees they grow on.

    d. They obtain nitrogen from the proteins in insect larvae.

4. **Assertion (A): Cuscuta obtains readymade food from the plant on which it is climbing.**
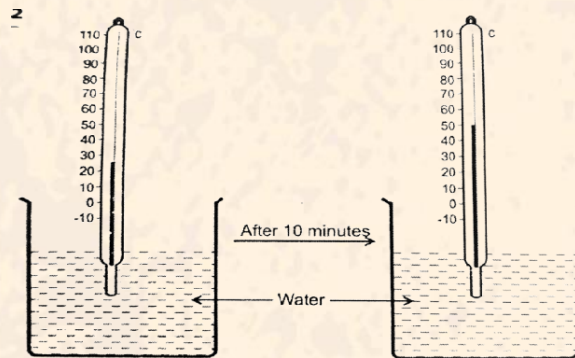   **Reason (R): It shows autotrophic mode of nutrition.**
   a. Both A and R are true and R is the correct explanation of A.
   b. Both A and R are true and R is not the correct explanation of A.
   c. A is true, but R is false.
   d. A is false, but R is true.

5. **What is the main cause of tooth decay?**
   a. acids from plaque
   b. biting very hard
   c. eating too much salt
   d. drinking too much water

6. **Assertion (A): Boiled and chewed rice does not give blue-black colour with iodine solution.**
   Reason (R): Boiled and chewed rice contains starch.
   a. Both A and R are true and R is the correct explanation of A.
   b. Both A and R are true and R is not the correct explanation of A.
   c. A is true and R is false.
   d. A is false and R is true.

7. **The distal (end) part of the stomach leads into which of these organs?**
   a. liver
   b. oesophagus
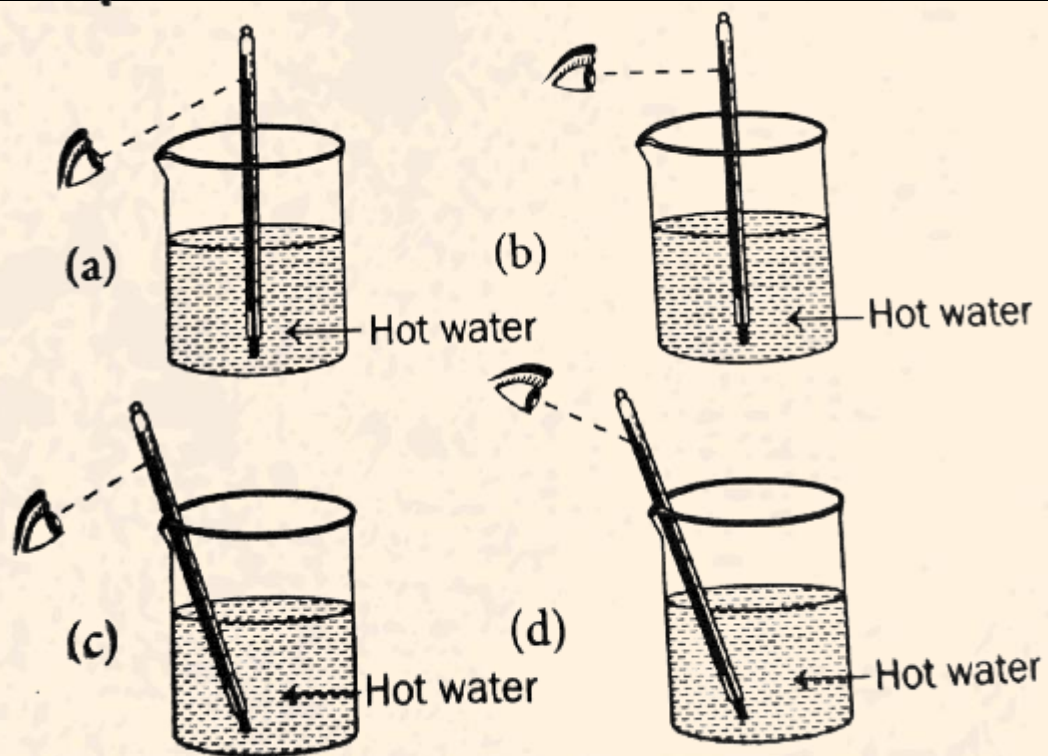   c. small intestine
   d. large intestine

8. **The intestinal wall is richly supplied with blood vessels so that_____.**
   a. the absorbed food can be transported to the liver.
   b. the energy released by the process of digestion can be absorbed.
   c. the carbon-dioxide in the intestine released can be removed faster.
   d. the blood can mix with the food inside it and carry away the nutrients and wastes.

After 10 minutes

Water

9. What must have happened to the beaker of water in the first picture in the 10 minutes before it reached the state in the second?

  a. The beaker was placed in a refrigerator.

  b. The beaker was heated on a stove.

  c. Ice cubes were added to the water.

  d. The beaker was left untouched.

10. A marble tile would feel cold as compared to a wooden tile on a winter morning because the marble tile

  a. is a better conductor of heat than the wooden tile

  b. is polished while wooden tile is not polished

  c. reflects more heat than wooden tile
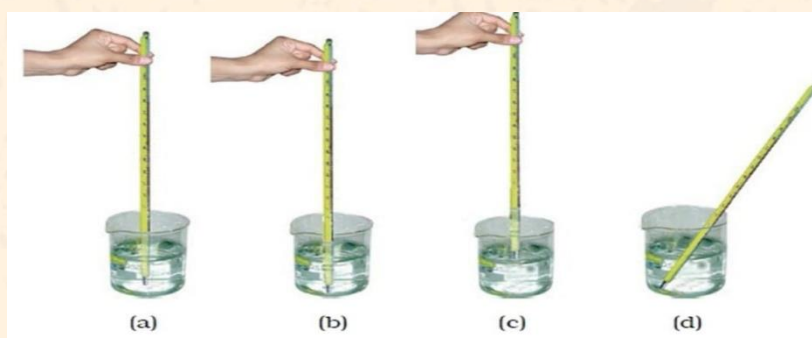
  d. is a poor conductor of heat than the wooden tile

(a)

(b)

Hot water

(c)

(d)

Hot water

Hot water

Hot water

11. Which figure shows the correct way of reading the temperature on a thermometer?
   a. figure (a)
   b. figure (b)
   c. figure (c)
   d. figure (d)

12. Four arrangements to measure temperature of ice in beaker with laboratory thermometer are shown in the figure (a), (b), (c) and (d). Which one of them shows the correct arrangement for accurate measurement of temperature?
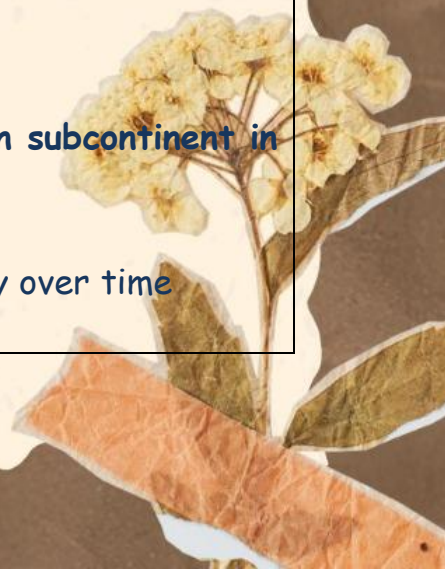

(a)   (b)   (c)   (d)

a. Figure (a)

b. Figure (b)

c. Figure (c)

d. Figure (d)

13. 'Litmus', a natural dye is an extract of which of the following?

    a. China rose

    b. Beet root

    c. Lichen

    d. Blue berries

14. Which of the following sets of substances contain acids only?

    a. Grapes, lime water

    b. Vinegar, soap

    c. Curd, milk of magnesia

    d. Curd, vinegar

15. A student has four solutions among which one is acidic in nature. She wants to identify the acidic solution using a litmus paper. Which of these observations would help to identify the acidic solution?

    a. Place blue litmus in the solution and see if it turns white

    b. Place red litmus in the solution and see if it turns white

    c. Place blue litmus in the solution and see if it turns red

    d. Place red litmus in the solution and see if it turns blue

Social Science

1. How can human activities lead to imbalance in the natural environment?

    a. By planting more trees in forests

    b. By overusing natural resources like water and fossil fuels

    c. By building eco-friendly homes

    d. By reducing pollution in cities

2. Which of the following is an example of a human-made component of the environment affecting the natural environment?

    a. Mountains causing rain

    b. A river flooding naturally

    c. A dam changing the flow of a river

    d. Seasonal change in temperature

3. Why is the mantle important in understanding volcanic activity?

    a. It contains soil and water

b. It has solid outer layers only

c. It contains semi-molten rocks that can rise to the surface

d. It cools the Earth's crust

4. **Which of the following rocks can change from one form to another due to heat and pressure?**

a. Igneous rocks

b. Sedimentary rocks

c. Metamorphic rocks

d. All of the above

5. **How does the concept of universal adult franchise support equality in a democracy?**

a. By allowing only educated people to vote

b. By giving voting rights to rich citizens

c. By giving every adult the right to vote regardless of their background

d. By selecting leaders based on age

6. **Why should health services be available to all, especially in rural and poor areas?**

a. Because cities have enough doctors

b. Because private hospitals are too far

c. Because good health is necessary for all to live and work

d. Because rural people should not migrate

7. **What is one important role the government plays in public health?**

a. Building private clinics

b. Training only doctors for private practice

c. Setting up public hospitals and vaccination drives

d. Selling health insurance

8. **What does land revenue collected by kings during early medieval times reveal about the kingdom's economy?**

a. The land was mostly barren

b. Agriculture was the main economic activity

c. People paid taxes in gold

d. Kings owned all the land

9. **What does the variety of names used for the Indian subcontinent in historical texts (like Hindustan, Bharat) show?**

a. The country changed shape

b. Different people and cultures viewed it differently over time

c. All names meant the same

d. These names were given by one ruler

10. **How do historical sources like coins, inscriptions, and manuscripts help historians?**
    a. They are easier to read than textbooks
    b. They help historians guess the future
    c. They give direct evidence of political, social, and economic life
    d. They are only used for decoration

11. **How does deforestation impact both the natural and human environment?**
    a. It improves oxygen levels and boosts agriculture
    b. It reduces pollution and creates more living space
    c. It leads to soil erosion, loss of biodiversity, and affects climate
    d. It has no major effect on the environment

12. **Which layer of the Earth is responsible for the movement of tectonic plates?**
    a. Crust
    b. Mantle
    c. Core
    d. Oceanic bed

13. **How can discrimination in society be reduced?**
    a. By denying education to certain groups
    b. By giving special facilities to the rich only
    c. By ensuring equal access to education, healthcare, and opportunities
    d. By selecting leaders based on caste

14. **Which of the following is a key responsibility of the government regarding health?**
    a. Opening gyms in malls
    b. Providing clean drinking water and sanitation
    c. Selling medicines in private shops
    d. Promoting private health insurance

15. **Why do historians study maps and travel accounts from the past?**
    a. To compare ancient shopping centres
    b. To understand how people and regions were viewed over time
    c. To decorate classrooms
    d. To identify kings' favourite colours

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