

Test

CTET - 2011 Math & Science (English) Paper 2

Section 1:

Child Development and Pedagogy

Q 1.

Answer the following questions by selecting the *most appropriate* option. A creative learner refers to one who is

- A capable of scoring consistently good marks in tests
- B good at lateral thinking and problem solving
- C very talented in drawing and painting
- D highly intelligent

Q 2.

Answer the following questions by selecting the *most appropriate* option. Human development is based on certain principles. Which of the following is not a principle of human development?

- A General to Specific
- B Reversible
- C Continuity
- D Sequentiality

Q 3.

Answer the following questions by selecting the *most appropriate* option. Multilingual character of Indian society should be seen as

- A a challenge to teacher's capacity to motivate students to learn
- B a factor that makes school life a complex experience for the learners

C a hindrance in teaching-learning process

D a resource for enrichment of school life

Q 4.

Answer the following questions by selecting the *most appropriate* option. Every learner is unique means that

A A common curriculum for all learners is not possible

B It is impossible to develop the potential of learners in a heterogeneous class

C No two learners are alike in their abilities, interests and talents

D Learners do not have any common qualities, nor do they share common goals

Q 5.

Answer the following questions by selecting the *most appropriate* option. A teacher wants the gifted children of her class to achieve their potential. Which of the following should she not do to achieve her objective?

A Segregate them from their peers for special attention

B Challenge them to enhance their creativity

C Teach them to enjoy non-academic activities

D Teach them to manage stress

Q 6.

Answer the following questions by selecting the *most appropriate* option. Irfan breaks toys and dismantles them to explore their components. What would you do?

A Encourage his inquisitive nature and channelise his energy

B Make him understand that toys should not be broken

C Never let Irfan play with toys

D Always keep a close watch

Q 7.

Answer the following questions by selecting the *most appropriate* option. The statement 'Men are generally more intelligent than women'

A shows gender bias

B is true for different domains of intelligence

C is true

D may be true

Q 8.

Answer the following questions by selecting the *most appropriate* option. Centrally sponsored scheme of Integrated Education for disabled children aims at providing educational opportunities to children with disabilities in

A open schools

B Blind Relief Association schools

C regular schools

D special schools

Q 9.

Answer the following questions by selecting the *most appropriate* option. Diagnosis of the gaps in the learning of students should be followed by

A systematic revision of all lessons

B reporting the findings to learners and parents

C appropriate remedial measures

D intensive drill and practice

Q 10.

Answer the following questions by selecting the *most appropriate* option. The statement: 'An important precondition for the proper development of a child is ensuring her/his healthy physical development'

A is true because physical development occupies the topmost place in the sequence of development

B is true because physical development is interrelated with other domains of development

C is untrue as physical development does not affect other domains of development in any way

D may be incorrect as development varies from individual to individual

Q 11.

Answer the following questions by selecting the *most appropriate* option. Which of the following is not a sign of reading difficulty among young learners? Difficulty in

- A understanding words and ideas
- B spelling consistency
- C letter and word recognition
- D reading speed and fluency

Q 12.

Answer the following questions by selecting the *most appropriate* option. Helping learners recapitulate or recall what they have already learnt is important because

- A it is an effective way of revising old lessons
- B it enhances the memory of learners thereby strengthening learning
- C it is a convenient beginning for any classroom instruction
- D relating new information to prior knowledge enhances learning

Q 13.

Answer the following questions by selecting the *most appropriate* option. Individual learners differ from each other in

- A sequence of development
- B general capacity for development
- C principles of growth and development
- D rate of development

Q 14.

Answer the following questions by selecting the *most appropriate* option. 'Self-regulation' of learners refers to

- A rules and regulations made by the student body
- B self-discipline and control
- C their ability to monitor their own learning
- D creating regulations for student behaviour

Q 15.

Answer the following questions by selecting the *most appropriate* option. The most intense and crucial socialization takes place

- A during early childhood
- B during adulthood
- C throughout the life of a person
- D during adolescence

Q 16.

Answer the following questions by selecting the *most appropriate* option. Christina took her class for a field trip and after coming back, she discussed the trip with her students. It may be connotated as

- A Learning for Assessment
- B Learning of Assessment
- C Assessment of Learning
- D Assessment for Learning

Q 17.

Answer the following questions by selecting the *most appropriate* option. Which of the following statements cannot be considered as a feature of 'learning'?

- A Study of behaviour is learning
- B Unlearning is also a part of learning
- C Learning is a process that mediates behaviour
- D Learning is something that occurs as a result of certain experiences

Q 18.

Answer the following questions by selecting the *most appropriate* option. Theory of learning which totally and only depends on 'observable behaviour' is associated with _____ theory of learning.

- A Behaviourist
- B Constructivist
- C Cognitivist
- D Developmental

Q 19.

Answer the following questions by selecting the *most appropriate* option. Understanding the principles of development of a child helps a teacher in

- A** rationalizing why the learner ought to be taught
- B** effectively catering to the different learning styles of learners
- C** identifying the social status of the learner
- D** identifying the economic background of the learner

Q 20.

Answer the following questions by selecting the *most appropriate* option. Which of the following statements is true about 'learning'?

- A** Learning is not affected by emotional factors at any stage of learning.
- B** Learning is fundamentally a mental activity.
- C** Errors made by children indicate that no, learning has taken place.
- D** Learning is effective in an environment that is emotionally positive and satisfying for the learners.

Q 21.

Answer the following questions by selecting the *most appropriate* option. Learners should not be encouraged to

- A** participate in as many co-curricular activities as possible
- B** memorize all the answers to questions which the teacher may ask
- C** ask as many questions as possible both inside and outside the class.
- D** actively interact with other learners in group work.

Q 22.

Answer the following questions by selecting the *most appropriate* option. Which of the following is not an appropriate tool for Formative Assessment?

- A** Term test
- B** Quiz and games
- C** Assignment
- D** Oral questions

Q 23.

Answer the following questions by selecting the *most appropriate* option. Creative answers require

- A** open-ended questions
- B** a highly disciplined classroom
- C** direct teaching and direct questions
- D** content-based questions

Q 24.

Answer the following questions by selecting the *most appropriate* option. According to Piaget, during the first stage of development (birth to about 2 years age), a child learns best

- A** by thinking in an abstract fashion
- B** by applying newly acquired knowledge of language
- C** by using the senses
- D** by comprehending neutral words

Q 25.

Answer the following questions by selecting the *most appropriate* option. Development of concepts is primarily a part of

- A** physical development
- B** social development
- C** emotional development
- D** intellectual development

Q 26.

Answer the following questions by selecting the *most appropriate* option. Heredity is considered as a _____ social structure.

- A** dynamic
- B** static

C primary

D secondary

Q 27.

Answer the following questions by selecting the *most appropriate* option.

Constructivism as a theory

A emphasises on memorising information and testing through recall

B emphasises on the dominant role of the teacher

C focuses on the role of imitation

D emphasises the role of the learner in constructing his own view of the world

Q 28.

Answer the following questions by selecting the *most appropriate* option. Which of the following does not reflect 'teaching for understanding'?

A Help students see similarities and differences and generate analogies

B Enable students to memorize isolated facts and procedures

C Ask students to explain a phenomenon or a concept in their own words

D Teach students to provide examples to illustrate how a law Works

Q 29.

Answer the following questions by selecting the *most appropriate* option. Which of the following is not a characteristic feature of intrinsically motivated children?

A They display a high level of energy while working

B They like challenging tasks

C They always succeed

D They enjoy doing their work

Q 30.

Answer the following questions by selecting the *most appropriate* option. The main purpose of assessment should be

A to decide if a student should be promoted to the next class

B to diagnose and remedy gaps in learning

C to point out the errors of the learners

D to measure the achievement of learners

Section 2: Language 1 English

Q 1.

The poet describes his eyes as 'two red redundant eyes' because

A they have been affected by an eyedisease

B in his medical condition the poet is imagining things

C he cannot see properly due to the cold

D they show how furious the poet is

Q 2.

What is the emotion that the poet displays in the first stanza?

A Jealousy

B Sympathy

C Anger

D Joy

Q 3.

'Who never interrupt for slumber. Their stamping elephantine rumba.' The meaning of these lines is that

A the bacilli are so active that they refuse to go to sleep

B the poet is not able to concentrate on his work due to the raging cold

C the bacteria are continuously stamping their elephant-like feet

D the cold-causing germs are causing much discomfort and pain to the poet without any break

Q 4.

'... it may bite in defence' (para-3). This observation implies that

A human beings are defenceless against

- B** a snake bites a human only when it is threatened
- C** a snake is very good at defending itself
- D** a snake may bite a human being in order to defend its prey

Q 5.

Answer the following questions by selecting the *most appropriate* option

An inclusive class is that in which

- A** students from different religions study together
- B** both boys and girls study together
- C** differently abled learners study with normal students
- D** students from different nationalities study together

Q 6.

Answer the following questions by selecting the *most appropriate* option

The term 'Comprehensive' in Continuous and Comprehensive Evaluation means

- A** academic skills
- B** scholastic and co-scholastic development
- C** scholastic development
- D** co-scholastic development

Q 7.

Answer the following questions by selecting the *most appropriate* option

A teacher, Amrita, uses various tasks such as creating charts, graphs, drawing, gathering information and presenting them through pair or group work. This differentiated instruction

- A** only helps the bright learners
- B** is the best way to prepare students for an assessment
- C** helps learners with multiple intelligences to perform well and learn better
- D** is a way of demonstrating her own knowledge

Q 8.

Answer the following questions by selecting the *most appropriate* option

Communicative Language Teaching is concerned with

A interpreting grammar rules to suit the audience

B enhancing receptive and productive skills such as speaking, listening, reading and writing

C teaching of vocabulary and grammar through rules of spelling and language

D teaching language to learners for written tests

Q 9.

Answer the following questions by selecting the *most appropriate* option
Ania, while teaching paragraph construction, should draw attention to

A topic sentence, supporting details and connectors

B a range of vocabulary

C a large variety of ideas

D originality of ideas

Q 10.

The general tone of the poem can be described as

A whimsical and humorous

B sad and tragic

C satirical and harsh

D ironical and mocking

Q 11.

Pick out a word from the passage, that means 'having the power to cause death'. (Para 5)

A lethal

B serum

C immobilise

D voluntarily

Q 12.

Answer the following questions by selecting the *most appropriate* option
Gender stereotypes and bias among learners can be discouraged by

- A creating an open and encouraging atmosphere in a mixed class
- B pressuring girls to learn cooking
- C enabling all learners to cook and sew irrespective of gender
- D using textbooks which do not perpetuate such beliefs

Q 13.

Answer the following questions by selecting the *most appropriate* option

.Which of the following is suitable for making students responsible for their own learning?

- A Encouraging students to ask more and more questions
- B Giving a lot of homework, project work and assignments to improve language skills of student
- C Discouraging students from making decisions about how they learn best
- D Using technology to chat and network

Q 14.

Answer the following questions by selecting the *most appropriate* option

The Constructivist Approach to learning means

- A helping learners acquire new vocabulary by studying literature intensively
- B teaching new words and structures using a variety of audio-visual aids followed by practice through drill
- C involving the students in a variety of activities to encourage them to learn new words and structures by accommodating them with those that they have already learnt through a process of discovery
- D teaching rules of grammar and consolidating through rigorous practice

Q 15.

Storing foodgrains in the house is one of the causes for snake bites because

- A the smell of foodgrains brings both snakes and other animals into the house
- B stored foodgrains create convenient hiding places for snakes within houses
- C foodgrains attract rats which in turn attract snakes
- D snakes enter houses in search of stored foodgrains

Q 16.

Answer the following questions by selecting the *most appropriate* option
Using a word bank and brainstorming helps to build

- A** Writing skills
- B** Reading comprehension
- C** Vocabulary
- D** Ideas

Q 17.

Answer the following questions by selecting the *most appropriate* option
'Concrete Operational Stage' refers to those learners who are

- A** toddlers
- B** adults
- C** adolescents
- D** at middle level

Q 18.

Answer the following questions by selecting the *most appropriate* option
Formative Assessment is assessment

- A** in learning
- B** for learning
- C** of learning
- D** at learning

Q 19.

In the instance of a snakebite, what should we do immediately?

- A** Immobilise the bitten part and get anti-venom serum
- B** Cut-slice-suck the bitten spot
- C** Tie tourniquets
- D** Eat herbal chutneys

Q 20.

According to the author, people living in which parts are more prone to snake bites?

- A Villages
- B Forests
- C Crowded cities
- D The open

Q 21.

Answer the following questions by selecting the *most appropriate* option

A teacher designs a test to find out the cause of the poor grades of her learners through a/an

- A Achievement Test
- B Aptitude Test
- C Diagnostic Test
- D Proficiency Test

Q 22.

Answer the following questions by selecting the *most appropriate* option

Essays or long writing tasks especially on a discursive issue should

- A help them to improve their handwriting
- B help them discuss the. different points of view and justify them with illustrative points
- C help students develop their literary skills
- D help students with grammar

Q 23.

Answer the following questions by selecting the *most appropriate* option

What is the skill among the ones given. below that cannot be tested in a formal written examination?

- A Extensive reading for pleasure
- B Analysing texts
- C Reading for information
- D Meaning of words and phrases

Q 24.

Why and at whom does the poet show his emotion?

- A** At a friend, who is happy at the poet's plight
- B** At a doctor who has said the poet merely has a cold
- C** At an old man because he has sneered at the poet
- D** At a doctor for an incorrect diagnosis of his medical condition

Q 25.

"If the snake hasn't injected enough venom, even popping an aspirin can save your life." This sentence can be rewritten without changing the meaning as

- A** Even popping an aspirin can save your life, in spite of a snake not having injected enough venom.
- B** As long as you are popping an aspirin to save your life, the snake will not inject enough venom.
- C** When a snake has not injected enough venom, life can be saved even by swallowing an aspirin;
- D** Life can be saved even by swallowing an aspirin, even though the snake hasn't injected enough venom.

Q 26.

Pick out a word from the passage which means 'to go around in search of food'. (Para 2)

- A** venomous
- B** barefoot
- C** foraging
- D** countryside

Q 27.

'Bacteria as large as mice' is an instance of a/an

- A** personification
- B** alliteration
- C** simile and a hyperbole
- D** metaphor

Q 28.

Of the people who are bitten by snakes in India, the fatality rate is

- A** 50%
- B** 100%
- C** 5%
- D** 25%

Q 29.

Answer the following questions by selecting the *most appropriate* option

When learners are engaged in a pair activity, taking on roles of a doctor and a patient, the activity is called

- A** Simulation
- B** Exchanging notes
- C** Real Activity
- D** Declamation

Q 30.

What, according to the author, is the reason for the high fatality rate due to snakebites in India?

- A** Shortage of anti-venom serum
- B** Shortage of doctors
- C** Shortage of medical facilities
- D** Lack of scientific knowledge about snakebites

Section 3:

Language 2 Hindi

Q 1.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
'भाषा-अर्जन' और 'भाषा-अधिगम' के संदर्भ में कौन-सा कथन सही नहीं है?

- A** 'भाषा-अर्जन' के लिए समृद्ध भाषायी परिवेश की आवश्यकता होती है।
- B** 'भाषा-अधिगम' में संप्रषण-कुशलता पर भी बल रहता है।

C भाषा-अर्जन सहज और स्वाभाविक होता है, जबकि भाषा-अधिगम प्रयासपूर्ण होता है।

D रोजगार प्राप्त करने के लिए ही भाषा सीखी जाती है।

Q 2.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
समावेशी-शिक्षा के संदर्भ में भाषा-शिक्षण के लिए अनिवार्य है

A व्याकरणिक संकल्पनाओं का अधिकाधिक अभ्यास

B एकांकी-शिक्षण में सभी की भागीदारी

C भाषा-कौशलों का उपयोक्त अभ्यास

D विभिन्न प्रकार की गतिविधियों का उपयोग

Q 3.

लेखक के अनुसार क्या जरूरी है?

A सही जवाब

B देर से जवाब देना

C अच्छी तरह चिंतन करने के बाद जवाब देना

D असुरक्षा न होना

Q 4.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
भाषा-शिक्षण में सहायक है

A शुद्ध-भाषा पर बल

B साहित्य-शिक्षण

C व्याकरणिक नियमों की जानकारी

D निदानात्मक व उपचारात्मक कार्य

Q 5.

कमजोर विचारक को क्या असहनीय लगता है?

A विचार

B प्रशिक्षण

C सोचने को कौशल

D उत्तर न जानना

Q 6.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
किस प्रकार के प्रश्न बच्चों की भाषागत समझ का आकलन करने में अधिक सहायक नहीं होते?

A कल्पनापरक

B चिंतनपरक प्रश्न

C अनुमानपरक प्रश्न

D पाठ पर आधारित तथ्यात्मक प्रश्न

Q 7.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
विशेष क्षमता वाले बच्चों की कक्षा में 'लेखन-कौशल' के अभ्यास के लिए महत्त्वपूर्ण है

A शुद्ध वर्तनी का प्रयोग

B आलंकारिक भाषा को प्रयोग

C अक्षरों की सुंदर बनावट

D विचारों की मौलिकता

Q 8.

'पश्चिमी समाज कभी-कभी आधुनिक नहीं रहे।' लेखक ने ऐसा क्यों कहा होगा?

A पश्चिमी समाज के पास साइंस है

B पश्चिमी समाज यह नहीं जानता कि आधुनिक का अर्थ क्या है और कौन-सी चीजें समाज को आधुनिक बनाती हैं

C पश्चिमी समाज आधुनिक नहीं है

D पश्चिमी समाज दूसरे कल्चर का असर ग्रहण कर रहा है

Q 9.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
'पठन-कुशलता' का मूल्यांकन करने के लिए आप क्या करेंगे?

A पढ़ी गई सामग्री पर प्रश्न बनवाएँगे

B पुस्तक के किसी पाठ की पंक्तियाँ पढ़वाएँगे

C बच्चों से जोर-जोर से बोलकर पढ़ने के लिए कहेंगे ताकि उच्चारण कि जांच हो सके

D पढ़ी गई सामग्री पर तथ्यात्मक प्रश्न पूछेंगे

Q 10.

कमजोर विचारक

A हमेशा अज्ञानी होता है

B कमजोर होता है

C जल्दी उत्तर देना चाहता है

D देर से उत्तर देता है

Q 11.

अच्छे विचारक वे हैं जो

A उलझे से रहते हैं

B जिनकी बुद्धि बहुत तेज होती है

C सोच-विचार कर जवाब देते हैं

D हमेशा सही जवाब देते हैं

Q 12.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।

हिन्दी भाषा में सतत और व्यापक मूल्यांकन करते समय आप किस बात पर विशेष ध्यान देंगे?

A परियोजना-कार्य

B शुद्ध उच्चारण

C विभिन्न संदर्भों में भाषा-प्रयोग की कुशलता

D शुद्ध वर्तनी

Q 13.

'साइंटिस्टों' शब्द इस ओर संकेत करता है कि

A आजकल खिचड़ी भाषा को प्रयोग हो रहा है

B ऐसे शब्द न तो हिन्दी के रहते हैं और न अंग्रेजी के

C कोई भाषा किसी दूसरी भाषा से शब्द तो लेती है लेकिन व्याकरण अपना प्रयुक्त करती है

D लेखक का शब्द-चयन अच्छा नहीं है

Q 14.

'प्रशिक्षित' शब्द में उपसर्ग और प्रत्यय हैं

A प्र, ईत

B प्र, क्षित

C प्र, इत

D प्र, त

Q 15.

'शयद मै भी।' वाक्य है

A इच्छार्थक

B विधानवाचक

C संदेहवाचक

D संकेतवाचक

Q 16.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
'बोलना-कौशल' के विकास के लिए सबसे अधिक महत्त्वपूर्ण सिद्ध हो सकता है

A कथा श्रवण

B परस्पर वार्तालाप

C सुनी गई सामग्री का ज्यों-त्यों प्रस्तुतीकरण

D श्रुतलेख

Q 17.

लेखक ने किस बात की अस्पष्टता की ओर संकेत किया है?

A पश्चिम देश की संस्कृति

B तरक्की का अर्थ

- C आधुनिकता की सही व्याख्या
- D आधुनिक बनने के मानदंडों में वैविध्य

Q 18.

लेखक इस गद्यांश में क्या कहना चाहता है?

- A वैज्ञानिकों को केवल अपनी संस्कृति का ज्ञान है।
- B विज्ञान में उन्नति करना ही आधुनिक होने का मानदंड नहीं है।
- C आधुनिक होने के लिए विज्ञान में तरक्की करना जरूरी है।
- D पश्चिमी समाज आधुनिक हैं।

Q 19.

मॉनिका पर किस बात का दबाव रहता है?

- A अच्छा विचारक न कहनाए जाने का
- B गलत होने का
- C बुद्धि का प्रशिक्षण न होने का
- D असुरक्षित होने का

Q 20.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
एकांकी पढ़ाने का सबसे अच्छा तरीका है

- A एकांकी को बच्चे घर से पढ़कर आएँ और कक्षा में शिक्षक सवाल पूछे
- B शिक्षक स्वयं पढ़ते हुए सवाल पूछते जाएँ
- C शिक्षक स्वयं पढ़ें और बच्चे सुनें
- D बच्चों से अलग-अलग पात्रों के संवाद पढ़वाए जाएँ और फिर एकांकी का मंचन हो

Q 21.

लेखक के अनुसार आधुनिक होने के लिए क्या जरूरी है।

- A स्वयं का विश्लेषण
- B साइंस में तरक्की करना

- C अपनी संस्कृति का संरक्षण
- D आधुनिकता की निश्चित परिभाषा

Q 22.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
आप सस्वर पठन में अनवार्थतः किस साहित्यिक विद्या का समर्थन करेंगे?

- A यात्रावृत्तांत का
- B जीवनी का
- C आत्मा का
- D एकांकी का

Q 23.

'तत्काल' शब्द का संधि-विच्छेद है

- A त + अकाल
- B ततः + काल
- C तत्+ काल
- D तत + काल

Q 24.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
"भाषा-शिक्षण" में शब्दों पर अधिक बल नहीं देना चाहिए, क्योंकि

- A इसमें समय व्यर्थ होता है
- B बच्चे सारे शब्दों के अर्थ जानते हैं
- C बच्चे संदर्भ के अनुसार लगाते हुए अर्थ ग्रहण कर लेते हैं।
- D शब्दों के अर्थ शब्दकोश से देखे जा सकते हैं

Q 25.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
'मौन पाठन' में मुख्यतः

- A मन ही मन बुदबुदाते हुए पढ़ा जाता है

B गहन अर्थ कौ आत्मसात् करने का प्रयास किया जाता है

C तेज गति से पाठ को पढ़ा जाता है

D शब्द-भंडार विकसित किया जाता है।

Q 26.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
अन्य विषयों की कक्षाएँ भी भाषा-अधिगम में सहायता करती हैं, क्योंकि

A अन्य विषयों की पाठ्य-पुस्तकें भाषा-शिक्षण के उद्देश्यों को ध्यान में रखती हैं

B अन्य विषयों को पढ़ने पर वैविध्यपूर्ण भाषा-प्रयोग के अनेक अवसर उपलब्ध होते

C अन्य विषयों के शिक्षक विषय के साथ-साथ भाषा भी सिखाते हैं

D सभी शिक्षक एक से अधिक भाषा जानते हैं

Q 27.

'वह गलत होने से डरती है।' वाक्य में उचित क्रिया-विशेषण शब्द आएगा

A अचानक

B धीरे-धीरे

C बहुत

D तेज

Q 28.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
'भाषा-शिक्षण' के संदर्भ में कौन-सा कथन सही नहीं है?

A समृद्ध भाषा-परिवेश भाषा अर्जित करने में सहायक होता है

B बच्चों की मातृभाषा का कक्षा में प्रयोग नहीं होना चाहिए

C बच्चे भाषा की जटिल संरचनाओं के साथ विद्यालय आते हैं

D बच्चे अपने द्वारा बनाए गए भाषा-नियमों में विस्तार एवं परिवर्तन करते हैं

Q 29.

हर देश ने

A आधुनिक होने की समान व्याख्या की है

- B अपने द्वारा निर्धारित मानदंडों को सही नहीं कहा है
- C अपने-आप को आधुनिक साबित किया है।
- D आधुनिक होने के अपने अर्थ और मानदंड तय किए हैं

Q 30.

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।
'बहु-सांस्कृतिक' पृष्ठभूमि वाली भारतीय कक्षाओं में भाषा-शिक्षण के लिए अत्यावश्यक है

- A विद्यार्थियों को 'श्रवण व लेखन' कौशलों के अधिकाधिक अवसर देना
- B विद्यार्थियों को 'भाषण व लेखन' के अधिकाधिक अवसर देना
- C लक्ष्यभाषा के विभिन्न भाषिक तत्वों को अधिकाधिक अभ्यास
- D परस्पर बातचीत के लिए अनेक अवसरों का निर्माण

Section 4:

Mathematics

Q 1.

Answer the following questions by selecting the most appropriate option 'Buy three, get one free.' What is the percentage of discount being offered here?

- A 20%
- B 2856%
- C 3333%
- D 25%

Q 2.

Answer the following questions by selecting the most appropriate option The ratio of the side and height of an equilateral triangle is

- A $2 : \sqrt{3}$
- B $\sqrt{3} : 2$
- C $2 : 1$
- D $1 : 1$

Q 3.

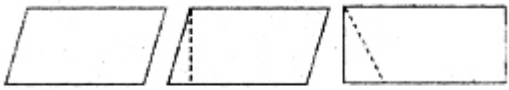


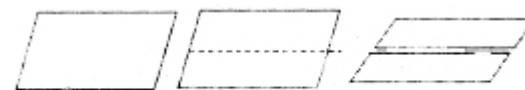
Answer the following questions by selecting the *most appropriate option* Find the

value of $\frac{547527}{82}$ if $\frac{547.527}{0.0082} = x$.

- A 100x
- B $\frac{x}{100}$
- C $\frac{x}{10}$
- D 10x

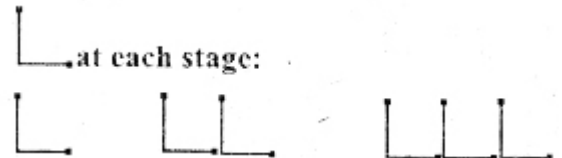
Q 4.

Answer the following questions by selecting the *most appropriate option* With an activity on paper folding, a teacher was trying to depict the relationship of the areas of a parallelogram and a triangle. Which of the following best depicts the transformation of stages?

- A 
- B 
- C 
- D 

Q 5.

Answer the following questions by selecting the *most appropriate option* Ameena is playing with matchsticks and adds one



Appu, on the other hand, makes a table:
 Number of L's 1 2 3 ...
 Number of matchsticks 2 4 6 ...

What is your observation about the two children in this situation?

- A Both Ameena and Appu are trying to make generalisations
- B Ameena would be learning by doing and Appu may not be able to see the pattern

al all

C Ameena is only playing and Appu is doing mathematics

D Ameena will need lots of matchsticks to come to a generalisation. However, Apply would be faster.

Q 6.

Answer the following questions by selecting the *most appropriate option* If a , b and c are three natural numbers in ascending order, then

A $c^2 - a^2 < b^2$

B $c^2 + b^2 = a^2$

C $c^2 - a^2 > b$

D $c^2 - a^2 = b^2$

Q 7.

Answer the following questions by selecting the *most appropriate option* When doing exponents, the work observed in a learner's notebook was as follows:

$$4 \times 3^4 2 = 4^5 \quad 6^4 \times 6^4 = 6^8 \quad 7^3 \times 3^7 \times = 21^{10}$$

The learner has not understood how to

A multiply numbers with same base

B multiply numbers with different bases

C add exponents

D add exponents and multiply

Q 8.

Answer the following questions by selecting the *most appropriate option* The ratio between the length and the perimeter of a rectangular plot is 1 : 3. What is the ratio between the length and breadth of the plot?

A 3 : 2

B Data inadequate

C 1 : 2

D 2 : 1

Q 9.

Answer the following questions by selecting the *most appropriate option* If $a * b = a^2 + b^2$ and $a . b = a^2 - b^2$, the value of $(5 * 2) . 25$ is

- A 226
- B 216
- C 215
- D 225

Q 10.

Answer the following questions by selecting the *most appropriate option* When introducing mensuration, a teacher writes all the formulae on the board before proceeding further. This reflects that she is following the

- A Experimental approach
- B Practical approach
- C Inductive approach
- D Deductive approach

Q 11.

Answer the following questions by selecting the *most appropriate option* To be good in mathematics, one needs to

- A create and formulate problems through abstract thinking and logical
- B memorise formulae
- C remember solutions
- D have mastery over calculations

Q 12.

Answer the following questions by selecting the *most appropriate option* When recast, the radius of an iron rod is made one-fourth. If its volume remains constant, then the new length will become

- A 16 times of the original
- B 4 times of the original
- C $\frac{1}{4}$ times of the original
- D $\frac{1}{16}$ times of the original

Q 13.

Answer the following questions by selecting the *most appropriate option* A teacher in grade-VI provided each child with a centimeter grid paper and a pair of scissors. She wanted them to explore how two-dimensional shapes can be folded into three-dimensional objects. Which of the following concepts are the students exploring?

- A** Nets
- B** Decimals
- C** Rotation
- D** Reflection

Q 14.

Answer the following questions by selecting the *most appropriate option* Given linear equations I, II and III, a learner is not able to solve III algebraically. The most likely area of difficulty is that the learner has not understood

$\begin{aligned} 4x+6y &= 12 \\ 2x+6y &= 8 \end{aligned}$	$\begin{aligned} 5x+4y &= 8 \\ 9x+4y &= 10 \end{aligned}$
I	II
$\begin{aligned} 6x+2y &= 1 \\ 4x+3y &= 1 \end{aligned}$	
III	

- A** the method of solving equations using graphs
- B** that both the equations in III can be altered by multiplying with suitable numbers
- C** that two equations can be added or subtracted to solve them
- D** that two equations can be solved by method of substitution

Q 15.

Answer the following questions by selecting the *most appropriate option* The smallest number by which 68600 must be multiplied to get a perfect cube is

- A** 8
- B** 12
- C** 5
- D** 10

Q 16.

Answer the following questions by selecting the *most appropriate option* $2x - 13$, $2x - 11$, $2x - 9$, $2x - 1$ are consecutive

- A Odd numbers
- B Natural numbers
- C Prime numbers
- D Even numbers

Q 17.

Answer the following questions by selecting the *most appropriate option* The area of a triangle with base x units is equal to the area of a square with side x units. Then the altitude of the triangle is

- A $2x$ units
- B $3x$ units
- C $x/2$ units
- D x units

Q 18.

Answer the following questions by selecting the *most appropriate option* A rectangle is divided horizontally into two equal parts. The upper part is further divided into three equal parts and the lower part is divided into four equal parts.

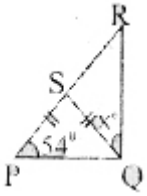
Which fraction of the original rectangle is the shaded part?



- A $\frac{4}{7}$
- B $\frac{7}{12}$
- C $\frac{3}{5}$
- D $\frac{2}{7}$

Q 19.

Answer the following questions by selecting the *most appropriate option* In the given figure, $PS = SQ = SR$ and $\angle SPQ = 54^\circ$. Find the measure of $\angle x$.



- A 108°
- B 36°
- D 54°
- D 72°

Q 20.

Answer the following questions by selecting the *most appropriate option* Which is greatest among $\frac{1}{2} \frac{1}{4}, \frac{4}{15}$ and 0.375

- A 0.35
- B Cannot be compared
- C $33 \frac{1}{2} \%$
- D $\frac{4}{15}$

Q 21.

Answer the following questions by selecting the *most appropriate option* The factorisation of $25 - p^2 - q^2 - 2pq$ is

- A $(5 + p - q)(5 - p + q)$
- B $(5 + p - q)(5 - p - q)$
- C $(5 + p + q)(5 - p + q)$
- D $(5 + p + q)(5 - p - q)$

Q 22.

Answer the following questions by selecting the *most appropriate option* The above represents the work of a student. If this error pattern continues, the student's answer

to $\frac{5}{11} - \frac{2}{7}$ will be

- A $\frac{3}{7}$

B $\frac{2}{18}$

C $\frac{7}{18}$

D $\frac{3}{4}$

Q 23.

Answer the following question by selecting the *most appropriate option* Students make errors while solving mathematical problems because

A their socio-economic status affects their performance

B they make alternative interpretations of concepts in their attempt to make meaning

C they do not practise enough

D they do not refer to multiple textbooks

Q 24.

Answer the following questions by selecting the *most appropriate option* Teachers, while discussing problem-solving as an approach to teaching of mathematics, articulated four views. Which of the following views does *not* justify the real meaning of this approach?

A 'I think it is better to connect problem-solving with general mathematics class.'

B 'I think there is no correlation between problem-solving and mathematical reasoning.'

C 'I think questions on problem-solving should be made from situations based on real life.'

D 'I think many questions found in the mathematics textbook can be used for problem-solving.'

Q 25.

Answer the following questions by selecting the *most appropriate option* The value of $\sqrt{2+\sqrt{3}} + \sqrt{2-\sqrt{3}}$ is

A $2\sqrt{2}$

B $2\sqrt{3}$

C $\sqrt{6}$

D 6

Q 26.

Answer the following questions by selecting the *most appropriate option* The fractional equivalent of 57.12% (approx.) is

A $\frac{375}{625}$

B $\frac{347}{625}$

C $\frac{349}{625}$

D $\frac{359}{625}$

Q 27.

Answer the following questions by selecting the *most appropriate option* Unit's digit in 13^{2003} is

A 7

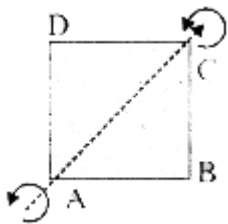
B 9

C 1

D 3

Q 28.

Answer the following questions by selecting the *most appropriate option* A square sheet ABCD when rotated on its diagonal AC as its axis of rotation sweeps a



A cylinder

B trapezium

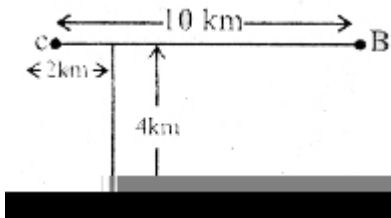
C cone

D spindle

Q 29.

Answer the following questions by selecting the *most appropriate option* A cyclist at 'C' is cycling towards 'B'. How far will he have to cycle from C before he is equidistant

from both A and B?



- A 6 km
- B 5 km
- C 4 km
- D 3 km

Q 30.

Answer the following questions by selecting the *most appropriate option* If two adjacent sides of a square paper are decreased by 20% and 40% respectively by what percentage does the new area decrease?

- A 52%
- B 60%
- C 48%
- D 50%

Section 5:

Science

Q 1.

Answer the following questions by selecting the *most appropriate option* Root cap is absent in

- A Mesophytes
- B Halophytes
- C Xerophytes
- D Hydrophytes

Q 2.

Answer the following questions by selecting the *most appropriate option* If the pressure over a liquid increases, its boiling point

- A does not change

B at first decreases and then increases

C decreases.

D increases

Q 3.

Answer the following questions by selecting the *most appropriate option* Non-metallic oxides

A are amphoteric in nature

B turn red litmus paper blue

C are acidic in nature

D are basic in nature

Q 4.

Answer the following questions by selecting the *most appropriate option* Bakelite is used in making electrical appliances because it is a

A good conductor of electricity

B good insulator of electricity

C thermoplastic

D good conductor of heat

Q 5.

Answer the following questions by selecting the *most appropriate option* Which of the following can be assessed when Gceta is using only MCQ as a tool to assess "Nutrition in Humans"?

A Learners' ability to apply knowledge and prepare a role play to present in the morning assembly

B Learners' ability to comprehend the importance of components of food and write a long essay

C Analytical ability to classify food items and make a poster

D Misconceptions related to food habits

Q 6.

Answer the following questions by selecting the *most appropriate option* While investigating 'how water affects the germination of seeds', a teacher asked the students

to soak bean seeds on a bed of cotton wool for a few days and observe the changes. What is the guideline that she forgot to mention? To place

- A many seeds on dry cotton
- B a few seeds on dry cotton
- C many seeds on wet cotton
- D a few seeds on wet cotton

Q 7.

Answer the following questions by selecting the *most appropriate option* While selecting a performance task to help students develop research oriented skills in a Science class, a teacher may pick up a topic

- A which she thinks is important for the students
- B related to a problem faced by students in their day-to-day functioning and which is a part of the concepts to be covered for this class
- C from the content given in the syllabus which must be completed in time
- D which majority of the students in a class find interesting

Q 8.

Answer the following questions by selecting the *most appropriate option* When an iron nail is dipped in copper sulphate solution, the colour of copper sulphate solution fades and a brownish layer is deposited over the iron nail. This is an example of

- A double displacement reaction
- B displacement and redox reactions
- C combination reaction
- D decomposition reaction

Q 9.

Answer the following questions by selecting the *most appropriate option* The green house effect which is causing an increase in the atmospheric temperature is mainly due to

- A carbon dioxide
- B sulphur

C oxygen

D nitrogen

Q 10.

Answer the following questions by selecting the *most appropriate option* A feather weighing 5 gm and a nail weighing 10 gm have the same kinetic energy. Which of the following statements is true about the momentum of the two bodies?

A Both will have equal momentum

B It is not possible to compare the momentum of two objects

C The lighter body will have higher momentum

D The heavier body will have higher momentum

Q 11.

Answer the following questions by selecting the *most appropriate option* LED and CFL arc very commonly used as sources of light in homes. Which of the following statements is true?

A Both are equally good

B Neither of them is good because both, contain

C GFL is better because LED contains toxic materials

D LED is better because CFL contains toxic materials

Q 12.

Answer the following questions by selecting the *most appropriate option* Green plants appear to release oxygen instead of carbon dioxide into the atmosphere during the day time because

A green plants respire during the day time but are involved in photosynthesis during the night time

B the rate of photosynthesis is higher than the rate of respiration during the day time.

C green plants do not respire during the nighttime.

D green plants respire only during the night time.

Q 13.

Answer the following questions by selecting the *most appropriate option* Most Boards of Education have banned the dissection of animals because

- A there is a need to sensitise students to prevention of cruelty to animals
- B they may spread new diseases
- C animals are no longer available for dissection
- D procuring animals has become an expensive proposition

Q 14.

Answer the following questions by selecting the *most appropriate* option While teaching the concept, "force can change the shape of an object" to students, a teacher plans the following activities:

- a. Explain concepts using commonly observed examples.
- b. Provide a dough on a plate and ask the students to press it down with the hand.
- c. Show an audio-visual film explaining the concept with some examples.

The teacher is using different approaches to learning because

- A she wants to prepare students for a test
- B there are different kinds of learners in the class and she wants to address multiple intelligence
- C she wants to prove her knowledge
- D she knows she must follow her lesson plan

Q 15.

Answer the following questions by selecting the *most appropriate* option The inner surfaces of food cans are coated with tin and not with zinc because

- A zinc has a higher melting point than tin
- B zinc is less reactive than tin
- C zinc is costlier than tin
- D zinc is more reactive than tin

Q 16.

Answer the following questions by selecting the *most appropriate* option A teacher plans to teach "Components of Food" in Class-VI. Which of the following can be used as an essential question?

- A Does your mother prepare a definite set of food items for lunch every day?
- B Do you eat all the items served in your lunch every day?

C List the food items your mother serves you in lunch.

D Why does your mother serve you a meal with a variety of food items?

Q 17.

Answer the following questions by selecting the most appropriate option A Science teacher plans group activities to teach "Properties of Air" to her students of Class-VT. Which one set of attributes would she like to have in the students she selects as group leaders?

A Giving major roles to brighter students to ensure the group finishes first

B Assigning roles as per capability, motivating and coordinating among the group members

C Freedom to choose roles, work at their own pace and understanding

D Ordering students to take roles and deliver in consonance with their understanding

Q 18.

Answer the following questions by selecting the most appropriate option A man goes door to door posing as a goldsmith. He promises to bring back the glitter on dull gold ornaments. An unsuspecting woman gives a set of gold bangles to him which he dips in a particular solution. The bangles sparkle but their weight has considerably reduced. The solution used by the impostor probably is

A a mixture of conc.HCl and conc.HNO₃

B conc.HNO₃

C dil.HCl

D conc.HCl

Q 19.

Answer the following questions by selecting the most appropriate option Four applicants for a post of TGT (Science) were asked to plan a lesson on 'Consequences of Deforestation' Which one of the following lesson plans reflects the scientific approach?

A Includes activities that children can perform in groups and draw conclusions through a Power Point presentation

B Mentions about the use of TGT to help students understand the concept

C Explains in detail the consequences of deforestation

D Provides a variety of examples to explain the concept.

Q 20.

Answer the following questions by selecting the *most appropriate option* While diluting sulphuric acid, it is recommended that the acid should be added to water because

- A** dilution of acid is highly exothermic
- B** dilution of acid is highly endothermic
- C** acid has strong affinity for water
- D** acid may break the glass container

Q 21.

Answer the following questions by selecting the *most appropriate option* Bleeding is stopped by the application of alum to a wound because

- A** alum reduces the temperature near the wound
- B** alum is an antiseptic
- C** the wound is plugged by the alum chunk
- D** alum coagulates the blood and forms a Clot

Q 22.

Answer the following questions by selecting the *most appropriate option* Ms. Patel, Principal of a School XYZ, is keen about integrated approach to teaching of Science rather than teaching different disciplines separately. The basis of this is

- A** difficulty of students to adjust to different teachers
- B** all the disciplines are interlinked and a teacher can draw on cross-curricular linkages
- C** non-availability of qualified teachers in her school to teach separate disciplines
- D** difficulty to adjust the teachers in the time-table

Q 23.

Answer the following questions by selecting the *most appropriate option* In Which of the following cases of motion are the distance moved and the magnitude of displacement equal?

- A** A pendulum oscillating to and fro
- B** The Earth revolving around the Sun

C A car moving on a straight road

D A car moving in a circular path

Q 24.

Answer the following questions by selecting the *most appropriate option*
Hormone Adrenaline

A helps control height

B helps control balance of electrolytes in the body

C helps control level of sugar in the blood

D helps the body to adjust stress level when one is very angry or worried

Q 25.

Answer the following questions by selecting the *most appropriate option* A common characteristic feature of plant sieve-tube cells and mammalian erythrocytes is

A absence of cell wall

B presence of haemoglobin

C absence of nucleus

D absence of chloroplast

Q 26.

Answer the following questions by selecting the *most appropriate option* A doctor prescribes a medicine to treat hyperacidity. The main ingredient of the medicine is

A CaCO_3

B Na_2CO_3

C $\text{Al}(\text{OH})_3$

D MgCl_2

Q 27.

Answer the following questions by selecting the *most appropriate option* Adding salt and sugar to food substances helps in preserving them for a longer duration. It is because excess salt and sugar

A cause change in the shape of microbial cells

- B remove water from food
- C plasmolyse the microbial cells
- D cause rupturing of microbial cells

Q 28.

Answer the following questions by selecting the *most appropriate option* The thumb of humans moves more freely than other fingers due to the presence of

- A hinge joint
- B saddle joint
- C pivotal joint
- D gliding joint

Q 29.

Answer the following questions by selecting the *most appropriate option* An air bubble inside water behaves like

- A plano-convex lens
- B concave mirror
- C concave lens
- D convex lens

Q 30.

Answer the following questions by selecting the *most appropriate option*The main aim of conducting Mathematics and Science Olympiads is to

- A help students score high marks in professional examinations
- B grade schools based on the performance of their students.
- C promote excellence in the subject by nurturing creativity and experimentation
- D grade students according to their capabilities

Answers:

Section 1:

Child Development and Pedagogy

1.B 2.B 3.D 4.C 5.A 6.A 7.A 8.C 9.C 10.B 11.A 12.D
13.D 14.C 15.D 16.C 17.A 18.A 19.B 20.D 21.B 22.A
23.A 24.C 25.D 26.B 27.D 28.B 29.C 30.D

Section 2: Language 1 English

1.C 2.C 3.D 4.B 5.C 6.B 7.C 8.B 9.A 10.C 11.A 12.C
13.A 14.C 15.C 16.C 17.D 18.B 19.A 20.A 21.C 22.B
23.A 24.B 25.C 26.C 27.C 28.C 29.A 30.D

Section 3: Language 2 Hindi

1.D 2.D 3.C 4.D 5.D 6.D 7.A 8.B 9.A 10.C 11.C 12.C
13.C 14.C 15.C 16.B 17.C 18.B 19.B 20.D 21.A 22.D
23.C 24.C 25.B 26.B 27.C 28.B 29.D 30.D

Section 4: Mathematics

1.C 2.A 3.C 4.B 5.C 6.C 7.B 8.D 9.B 10.D 11.A 12.A
13.C 14.D 15.C 16.A 17.A 18.B 19.B 20.A 21.D 22.D
23.B 24.C 25.C 26.A 27.A 28.D 29.B 30.A

Section 5: Science

1.D 2.D 3.C 4.B 5.D 6.D 7.B 8.B 9.A 10.D 11.D 12.B
13.A 14.B 15.D 16.D 17.B 18.A 19.A 20.A 21.D 22.B
23.C 24.D 25.C 26.C 27.C 28.B 29.C 30.C