

22. Technique used for evaluation of learning progress during instruction is called:

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23. The lowest level of learning in affective domain is:

- A. Attending
- B. Valuing
- C. Characterization
- D. Organization
- E. Responding

24. Intuitive thinking:

- A. has been encouraged by traditional teaching
- B. is not a cognitive process
- C. is not included in affective domain
- D. is part of the process of discovery
- E. is less valuable

25. Education is a process of bringing desirable change into:

- A. Behavior
- B. Individual
- C. Class
- D. Knowledge

P-16-2304-B-YELLOW-180316

Complete the sentences by choosing the most appropriate option, from the given choices (A to D/E) below each.

13. Since many teachers today draw on material from a variety of sources, disciplines, and ideologies for their lessons, their approach could best be called \_\_\_\_\_.

- A. electric
- B. simplistic
- C. invidious
- D. impromptu
- E. dogmatic

14. According to the World Health Organization, \_\_\_\_\_ any of the six most dangerous diseases to break out, it could be the cause for quarantine.

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- B. they were
- C. there were
- D. were they

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Willingness to take part in teacher's demonstration is:

- A. Receiving
- B. Responding
- C. Cauterization
- D. Valuing
- E. Organization

Operant conditioning refers to:

- A. learning through association
- B. learning through observation
- C. learning through consequences
- D. learning through reinforcements

Pragmatism in education philosophy is also named:

- A. Scholasticism
- B. Thomism
- C. Idealism
- D. Experientialism

School leadership which takes care of lower-level needs is termed as:

- A. Instructional leadership
- B. Transactional leadership
- C. Functional leadership
- D. Managerial leadership

## SUBJECT TWO

76. According to the instruction for the year 2014-15 Non Salary Budget, which one of the followings comes under the heading 'Fixed' for the purpose of allocation of Non Salary Budget?

- A. Photocopying and printing
- B. Electricity, minor repair
- C. Computer and other requirements
- D. Learning material

77. The Non Salary Budget can give the \_\_\_\_\_ tools which may be used by them for structuring finance rules and accountability mechanisms for managing incentives.

- A. Provincial governments/district governments
- B. Tehsil governments/district governments
- C. District governments/ School Management Councils
- D. Union councils

78. What is the name of the body/authority authorized to allocate funds to schools under the Non Salary Budget formula?

- A. DPIS
- B. CPDT
- C. PERSP
- D. PMIU

79. Psychosis is a sign of an underlying mental illness and temporary loss of contact with:

- A. reality
- B. memory
- C. hearing
- D. smelling

80. The act of bullying with cruel spoken words, involves ongoing name-calling, threatening, and making disrespectful comments about someone's attributes is named as:

- A. Physical bullying
- B. Verbal bullying
- C. Relational bullying
- D. Cyber bullying

## URDU

26. مزرا ادیب کی وجہ شہرت کن ڈراموں کی بدولت سے؟  
A. استیج  
B. ریڈیو  
C. شی وی  
D. کتابی  
E. معاشرتی
27. "مردم دیدہ" کے خاکوں کا موضوع کیا ہے؟  
A. لوگ  
B. اشخاص  
C. منظر  
D. احباب
28. یہ شعر کس صنف سے تعلق رکھتا ہے?  
پہنچتا ہے بر اک میں کش کے اگے دور جام اس کا  
کسی کو تشنہ لب رکھتا نہیں بے لطف عام اس کا  
A. حمد  
B. نعت  
C. غزل  
D. نظم  
E. منقبت
29. 'قطعہ کلامی' کس کی تخلیق ہے؟  
A. انور مسعود  
B. انور مقصود  
C. ابن انشاء  
D. مستنصر حسین تارڑ  
E. انتظار حسین
30. میرتفقی میر کی غزلیات کا بنیادی موضوع کیا ہے؟  
A. غم  
B. خوشی  
C. لطف اندوزی  
D. امید

## PEDAGOGY

16.Which one of the following is the source of mistakes in educational measurements?

- A. Teacher's educational background
- B. Examination system of the board
- C. Tools used in educational assessment
- D. In-effective teaching methodology

17.When referring to Bloom's taxonomy, remembering refers to:

- A. recognizing and recalling
- B. constructing meaning from different functions
- C. carrying out a procedure
- D. breaking material or concepts into parts

18.Kinesthetic learning style refers to:

- A. hearing and speaking
- B. association with images
- C. first see what they expect to know
- D. students carrying out physical activities

19.Accomplished teacher is the one who:

- A. covers syllabus on time
- B. stays full time during his lesson
- C. maintains discipline in the class
- D. captures and sustains the interest of students

20.The statement "Disciplined questioning is to get the truth of the matter" is given by:

- A. Socrates
- B. Aristotle
- C. Plato
- D. Pythagoras

21.Who is advocate of the Cognitive Theory of teaching?

- A. Benjamin Bloom
- B. McDonald
- C. Rayon
- D. Nathaniel Lees Gage
- E. BF Skinner

67.Which of the following is subset of  $A = \{10, 20, 30\}$ ?

- A.  $\{10, 30, 50\}$
- B.  $\{10, 20, 30, 40\}$
- C.  $\{10, 20\}$
- D.  $\{20, 30, 40\}$
- E.  $\{10, 30, 40\}$

68.Which of the following is the successor of 625,980?

- A. 625,979
- B. 625,980
- C. 625,981
- D. 625,978
- E. 625,970

69.How many non-collinear points determine a plane?

- A. 5 points
- B. 4 points
- C. 3 points
- D. 2 points
- E. 1 point

70.The profit of Rs. 40,000 at the rate of 3% per year for 4 years is Rs:

- A. 5,800
- B. 4,890
- C. 4,850
- D. 4,800
- E. 480

71.Which of the following test items is best suited for measuring performance in expression?

- A. MCQs
- B. Fixed Choice
- C. Essay Type
- D. Short Answer questions
- E. True/false

72. The process of examining student responses to individual test items to assess the quality of those items as a whole is known as

- A. Item difficulty
- B. Item discrimination
- C. Item analysis
- D. Item index
- E. Item scanning

73.The proper action verb Application in cognitive

- A. demonstrate
- B. construct
- C. appreciate
- D. list

74.The concept of structural taxonomy was proposed by

- A. Kant
- B. Bloom
- C. Biggs
- D. Skinner

75.In response to a cultural

- A. Choral Reading
- B. Idea Spill
- C. Analogy
- D. Portfolio

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P-16-2304-B-YELLOW-180316

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- A. Developing social understanding
- B. Promoting educational aims
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17. Teacher performs some tasks and students observe the feature of teaching methods. This refers to:

- A. Lecture
- B. Project
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18. Out of field, teaching means teaching the subject which is NOT of teacher's:

- A. Choice
- B. Interest
- C. Qualification
- D. Assignment

19. In order to get final and accurate feedback about the overall impact, teacher should adopt:

- A. Summative assessment
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20. Which of the following is a feedback of teaching?

- A. Frequent tests and examinations
- B. Instruction based solely on prescribed text-books
- C. Emphasis on scoring good marks in examinations
- D. Flexible time-table and seating arrangement
- E. Use of extra books

21. Authoritarian teaching focuses on:

- A. Teaching material
- B. Child-centered
- C. Experiences
- D. Teacher centered
- E. Headmaster centered

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## QUANTITATIVE

41. If the length of a rectangle is 4 times its width, and if its area is 144, what is its perimeter?

- A. 6
- B. 24
- C. 30
- D. 60
- E. 96

42. Which of the following is a multiple of 88?

- A. 1392578
- B. 138204
- C. 1436280
- D. 143616

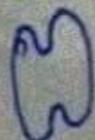
43. 480 students out of 1500 in a school are there for NCC. What percentage of all the students are not there for NCC?

- A. 75%
- B. 68%
- C. 70%
- D. 65%

44. If  $A : B = 7:9$  and  $B : C = 3 : 5$ , then  $A : B : C = ?$

- A. 7: 9: 5
- B. 21: 35: 45
- C. 7: 9: 15
- D. 7: 3: 15
- E. None of the above

45. Combine into a single fraction:  $1 - \frac{x}{y}$



- A.  $\frac{1-x}{y}$
- B.  $\frac{y-x}{y}$
- C.  $\frac{x-y}{y}$
- D.  $\frac{1-x}{1-y}$
- E.  $\frac{y-x}{xy}$

L383-INVIGILATOR C-WHITE-010516

11

**57. The websites ending with .pk will be based in:**

- A. Pakistan
- B. Peiking
- C. Paris
- D. Poland

**58. The Harvard University is located in:**

- A. Germany
- B. France
- C. USA
- D. Italy

**59. Australia's capital is:**

- A. Cape Town
- B. Hague
- C. Melbourn
- D. Canberra

**60. Japan's currency is \_\_\_\_\_.**

- A. Yen
- B. Libra
- C. Dollar
- D. Baht

**61. K-2 is situated in which of the following Mountain Ranges?**

- A. Hindu Kush
- B. Karakoram
- C. Himalaya
- D. Suleiman

**62. The largest Airport of Pakistan is:**

- A. Allama Iqbal International Airport Lahore
- B. Quaid-e-Azam International Airport Karachi
- C. Benazir Bhutto International Airport Islamabad
- D. Faisalabad International Airport
- E. Gwadar International Airport

**63. Which year is called the year of sorrow?**

- A. 9th Nabvi
- B. 13th Nabvi
- C. 6th Nabvi
- D. 10th Nabvi
- E. 8th Nabvi

**F-16-1383-INVIGILATOR C-WHITE-010516**

## GENERAL KNOWLEDGE

51. Who wrote the famous book 'Al qanoon fi tibb'?

- A. IbnuL Hatham
- B. Jabir Bin Hayan
- C. Bu Ali Seena
- D. Al Mawardi
- E. Al Masudi

52. The ancient natives of the America were known as:

- A. Ancient Americans
- B. White Americans
- C. Red Indians
- D. White Indians

53. The biggest cricket ground of the world is located in:

- A. South Africa
- B. Australia
- C. West Indies
- D. Sharjah
- E. England



54. How many players are there in a volleyball team?

- A. 6 players
- B. 7 players
- C. 9 players
- D. 10 players
- E. 11 players

55. Mention the nickname of Atomic bomb that was dropped on Hiroshima in 1945?

- A. Little boy
- B. Daisy cutter
- C. Dangerous Cutter
- D. Sharp boy

56. What is cartography?

- A. Art of drawing sketches
- B. Art of making maps and charts
- C. Art of making pots
- D. Art of making dresses

Four/five lettered pairs (A to D/E) follow a related pair of words given in capitals. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capitals.

51.SHARD: GLASS::

- A. grain: sand
- B. morsel: meal
- C. strand: rope
- D. scrap: quilt
- E. splinter: wood



52.CIGARETTE: UNHEALTHY::

- A. sin: immoral
- B. baby: wise
- C. husband: rich
- D. nation: peaceful

53.FORK: UTENSIL::

- A. jet: airplane
- B. fact: idea
- C. program: computer
- D. mountain: plastic

Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters.

54.SHRINK:

- A. emphasize
- B. restore
- C. split
- D. broaden
- E. modify

55.DESTRUCTIVE:

- A. practical
- B. comparative
- C. harmless
- D. tangible
- E. detailed

-1383-TEST CENTRE SUPERVISOR-BLUE-010516

46. C's mother was four times as old as C ten years ago. After 10 years, she will be twice as old as C. How old is C today?

- A. 50 years
- B. 20 years
- C. 42 years
- D. 80 years
- E. None of the above

47. If  $5a - b = 9$  and  $3a + b = 15$ , then  $a + b = ?$

- A. -3
- B. 3
- C. 5
- D. 9
- E. 12

48. Area of a circle is calculated by the formula:

- A.  $\pi r$
- B.  $\pi r^2$
- C.  $2\pi r^2$
- D.  $2\pi r$
- E.  $3\pi r$

49. Multiply  $17\frac{5}{8}$  by 128.

- A. 2256
- B. 2305
- C. 2356
- D. 2368
- E. 2394

50. Men's white handkerchief cost Rs. 2.29 for 3. The cost per dozen handkerchief is

- A. Rs. 27.48
- B. Rs. 13.74
- C. Rs. 9.16
- D. Rs. 6.87
- E. Rs. 4.58

36. If we half the radius of earth by keeping its mass constant then time period for spin motion of earth will become:

- A. 256 times
- B. 2 times
- C. 1/2 times
- D. 4 times

37. If we increase the temperature of conductor then drift velocity of electrons will be:

- A. Increased
- B. Decreased
- C. Remains Unchanged
- D. Infinity

**B**

38. At which angle, the scalar product between two vectors will be minimum?

- A.  $\theta = 0^\circ$
- B.  $\theta = 90^\circ$
- C.  $\theta = 60^\circ$
- D.  $\theta = 45^\circ$

39. Fluoride in water is removed using precipitation method by:

- A. Lime, salt and alum
- B. Lime, alum and bleaching powder
- C. Activated carbon and powder
- D. Defluoron and carbon

**B**

40. Which of the following mixtures of gases does NOT obey Dalton's law of partial pressure?

- A. O<sub>2</sub> and CO<sub>2</sub>
- B. NH<sub>3</sub> and HCl
- C. N<sub>2</sub> and O<sub>2</sub>
- D. Cl<sub>2</sub> and SO<sub>2</sub>

**B**

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by Javed Raza

36. Ability of a test to forecast the future performance of an individual refers to:

- A. Content Validity
- B. Construct Validity
- C. Predictive Validity
- D. Concurrent Validity

C

37. The Item difficulty index = 60 indicates that:

- A. Item was very easy
- B. Item was easy
- C. Item was very difficult
- D. Item was moderately difficult

D

38. Which of the following is an indirect measurement method of SLOs?

- A. Reflective journals
- B. Capstone courses
- C. Internship evaluations
- D. Exit interviews

D

39. The proper action verb for the SLOs of affective learning is:

- A. value
- B. bend
- C. explain
- D. show

A

40. Which level of cognitive domain of Bloom's Taxonomy is described by the action verbs like distinguish, solve, detect and classify?

- A. Knowledge
- B. Comprehension
- C. Application
- D. Analysis

D

41. The log tab of working portfolio contains:

- A. comments of a person who accesses it
- B. tasks which may be done
- C. learning objectives of the course
- D. overview of all the elements of assessment

A

P-16-2304-Q-WHITE-180316

10

Educators  
https://www.facebook.com/JoinUs4study  
by Soim R2020

Complete the sentences by choosing the most appropriate option, from the given choices (A to D/E) below each.

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C

Educators 2016 Discussion & Preparation  
<https://www.facebook.com/groups/Ntseducators/>  
by Saim Raza

SUBJECT ONE

.56 این قسم ، این عہد گرانظر کی رو سے —— بن۔

- A. تخلص  
B. خطاب  
C. عرف  
D. خلیت

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<https://www.facebook.com/groups/Ntseducators/>  
by Saim Raza

.57

غزل کا پہلا مصروف جس کے دونوں مصروفے ہم قاتلہ و کشیدہ  
بیوں —— کہلاتا ہے۔

- A. پہلا شعر  
B. مطلع  
C. مکھڑا  
D. مقطع

.58 سنگ کا مطلب ہے۔

- A. پتھریلی زمین  
B. سانپ  
C. پتھر انہاتے والا  
D. پتھر کاتتے والا

59.Which of the following countries is the top producer of oil?

- A. Saudi Arabia  
B. Kuwait  
C. Russia  
D. Iran

A

60.The significant export of agricultural product by Pakistan is:

- A. wheat  
B. rice  
C. vegetables  
D. tobacco

B

P-16-2304-B-YELLOW-180316

14

31. The first established name of species of a genus reflecting all its characteristics, designated by the first author is:

- A. Paratype
- B. Holotype
- C. Syntype
- D. Neotype

### Educators 2014 Discussion & Preparation

<https://www.facebook.com/groups/Ntseducators/>  
by Saim Raza

32. Which of the following sequence represents Eutrophication?

- A. O<sub>2</sub> Depletion --- Nutrient Enrichment – Algal Growth – Death & Decay
- B. Death & Decay – O<sub>2</sub> Depletion – Algal Growth – Nutrient Enrichment
- C. Nutrient Enrichment – Algal Growth – Death & Decay – O<sub>2</sub> depletion
- D. Algal Growth – Death & Decay – O<sub>2</sub> Depletion – Nutrient Enrichment

33. Process control block (PCB) is managed by the \_\_\_\_\_.

- A. Accumulator
- B. Program Counter
- C. Kernel
- D. Operating system

34. For which purpose address lines are used?

- A. To designate the source or destination of the data in hard disk.
- B. To designate the source or destination of the data on control bus.
- C. To designate the source or destination of the data on address bus.
- D. To designate the source or destination of the data on data bus.

35. Which of the following is true about Subroutine?

- A. When a program is compiled or assembled, then subroutine has no link with code.
- B. When a program is compiled or assembled, then subroutine is loaded 3 times.
- C. When a program is compiled or assembled, then subroutine is loaded twice.
- D. When a program is compiled or assembled, then subroutine is loaded only once.

## PEDAGOGY

11. Imagine while riding a car at hill station, you ate an apple and have nausea. Now you do not eat apples at hill area. This is an example of:

- A. Learning by insight
- B. Conditioned stimulus
- C. Unconditioned stimulus
- D. Experiential learning

12. Perceptual learning means that we:

- A. extract information out of sensory data of the environment
- B. extract information through artificial intelligence
- C. extract information through intuition
- D. extract information through history

13. Cooperative learning refers to a method of teaching where emphasis is on:

- A. Social work
- B. Team teaching
- C. Think-pair share
- D. Teacher-student relationship

14. Highest level of cognition in Bloom's taxonomy is:

- A. knowledge
- B. synthesis
- C. evaluation
- D. comprehension
- E. application

15. Students probably are NOT actively engaged in:

- A. demonstration method
- B. lecture method
- C. discovery method
- D. inquiry method
- E. problem-solving method

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22. Technique used for evaluation of learning progress during instruction is called:

- A. Diagnostic Evaluation
- B. Placement Evaluation
- C. Formative Evaluation
- D. Summative Evaluation
- E. Need based Evaluation

C

23. The lowest level of learning in affective domain is:

- A. Attending
- B. Valuing
- C. Characterization
- D. Organization
- E. Responding

A

24. Intuitive thinking:

- A. has been encouraged by traditional teaching
- B. is not a cognitive process
- C. is not included in affective domain
- D. is part of the process of discovery
- E. is less valuable

D

25. Education is a process of bringing desirable change into:

- A. Behavior
- B. Individual
- C. Class
- D. Knowledge

A

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## SCIENCE

26.Which of the following cannot be a bronsted acid?

- A.  $\text{HCO}_3^-$
- B.  $\text{HCOO}^-$
- C.  $\text{H}_2\text{SO}_4$
- D.  $\text{H}_2\text{O}$

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reattaches to the same chromosome but in a reversed direction.

- A. translocation
- B. deletion
- C. inversion
- D. duplication

C

28.In \_\_\_\_\_ the incisors, premolars and molar teeth are adapted for catching , killing , cutting flesh and reducing to the sizes suitable for swallowing.

- A. omnivores
- B. herbivores
- C. predators
- D. carnivores
- E. symbionts

D

29.The "Phylum Chordate" got the name after \_\_\_\_\_

- A. Pharyngeal slits
- B. Tubular nerve
- C. Notochord
- D. Ventral blood vessel

C

30.In mammals, the Corpus callosum is present to connect the both cerebral hemispheres.

- A. Mendipus
- B. Leatus
- C. Callosum
- D. Sallosium

C

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46. A group with at least two elements but with no proper non-trivial subgroup must be:

- A. Finite and of odd order
- B. Finite and of prime order
- C. Finite with no restriction of order
- D. Finite and of even order

D

47. If  $f(x) = \log_x (\log_x)$ , then  $f'(x)$  at  $x=e$  is:

- A. e
- B. 1/e
- C. 0
- D. 2/e

B

48. The value of k for which the function  $f(x) = Kx^3 - 9x^2 + 9x + 3$  is increasing on  $\mathbb{R}$ , is:

- A. K=3
- B. K=0
- C. K<3
- D. K>3

D

49. If the cutting plane is parallel to the generator of the cone and intersects one of its nape then the curve of intersection is:

- A. Parabola
- B. Hyperbola
- C. Ellipse
- D. Point circle

A

50. If  $a_{n-2} = 3n-11$ , then the  $n^{th}$  term of sequence is:

- A.  $3n+5$
- B.  $n-5$
- C.  $3n-5$
- D.  $3n-1$

C

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51. The probability of getting 2 heads in two successive tosses of a balanced coin is:

- A.  $1/2$
- B.  $1/3$
- C. 1
- D.  $1/4$

D

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## SUBJECT II

51. Find the values of "x" at which the function  $f(x) = x^2 - 3$  have stationary points (critical points):

- A.  $\frac{3}{2}$
- B.  $-\frac{3}{2}$
- C.  $\checkmark 0$
- D. 2
- E. 1

$$2x = 0$$

52. If  $y = 2t^3 - 4t^2 - 2t + 100$ , then find  $\frac{d^2y}{dt^2}$ .

- A.  $6t^2 - 8t$
- B.  $12t + 2$
- C.  $6t - 8$
- D.  $\frac{1}{1+t^2}$
- $\checkmark E. 12t - 8$

53.  $\int \int_{00}^{22} (4r - r^3) dr d\theta =$  \_\_\_\_\_

- A. 0
- B. 1
- C.  $\pi$
- $\checkmark D. 2\pi$
- E. 2

54. The solution of the first order differential equation

$(y')^2 + y^2 + 4 = 0$  is:

- A.  $y = 4x^3$
- B.  $y = 3x^2$
- C.  $y = 0$
- D.  $y = 2x^3$
- $\checkmark E. \text{ Does not exist}$

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13

78. If  $f(a)f(b) < 0$ , a root of the equation  $f(x) = 0$  lying in the interval  $(a, b)$  is given by:

- A.  $\frac{af(b) - bf(a)}{b - a}$   
B.  $\frac{bf(a) - af(b)}{b - a}$   
 C.  $\frac{af(b) - bf(a)}{f(b) - f(a)}$   
D.  $\frac{af(b) + bf(a)}{b + a}$

79. A population of bacteria grows at a rate proportional to the number present. After two hours, the population has tripled. After two more hours elapse, the population will have increased by a factor of  $k$ . What is the value of  $k$ ?

- A. 6  
B. 8  
 C. 9  
D. 27  
E. 81

80.  $u_{xx} + u_{yy} = f(x, y)$  is:

- A. Laplace's equation  
 B. Poisson's equation  
C. Diffusion equation  
D. Wave equation

81. If the roots of the equation  $x^2 + Bx + 1 = 0$  are the squares of the equation  $x^2 + bx + 1 = 0$ , which of the following expresses 'B' in terms of 'b':

- A.  $2 - b^2$ .  
 B.  $b^2 - 2$ .  
C.  $b^2$ .  
D.  $b^2 - 1$ .  
E.  $1 - b$ .

$$x = \frac{-B \pm \sqrt{B^2 - 4}}{2}$$
$$\left( -B \pm \sqrt{B^2 - 4} \right)^2 = b^2 - b \pm \frac{\sqrt{b^2 - 4}}{2}$$

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98. Once everyone has safely \_\_\_\_\_ the building, they should remain at a predetermined location until the \_\_\_\_\_ has been given.

- A. Entered ... 'all clear'
- B. Exited ... 'all clear'
- C. Arrived ... 'all clear'
- D. Departed ... 'all clear'

99. Students with \_\_\_\_\_ should be assigned an adult or a student buddy to assist them in an emergency situation.

- A. multifarious need
- B. cultural needs
- C. general needs
- D. specific needs

100. The Folic Acid can best be associated with the following:

- A. Vitamin  $B_9$
- B. Vitamin D
- C. Vitamin K
- D. Riboflavin
- E. Vitamin E

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60. If  $X = \begin{bmatrix} 1 & 0 & 2 \\ 0 & 2 & 1 \\ 1 & -1 & 1 \end{bmatrix}$  then  $X^{-1} = ?$

$$\left( \begin{array}{ccc} 1 & 0 & 2 \\ 0 & 2 & 1 \\ 1 & -1 & 1 \end{array} \right) \xrightarrow{\text{Row operations}} \left( \begin{array}{ccc} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{array} \right)$$

A.  $\begin{bmatrix} 3 & 2 & 4 \\ -1 & 1 & 0 \\ 2 & -1 & -2 \end{bmatrix}$

B.  $\begin{bmatrix} -3 & 2 & 4 \\ -1 & 1 & 0 \\ 2 & -1 & -2 \end{bmatrix}$

C.  $\checkmark \begin{bmatrix} -3 & 2 & 4 \\ -1 & 1 & 1 \\ 2 & -1 & -2 \end{bmatrix}$

D.  $\begin{bmatrix} 3 & 2 & 4 \\ 1 & 1 & 0 \\ 2 & -1 & -2 \end{bmatrix}$

68.

61.  $\int e^x \left( \tan^{-1} x + \frac{1}{1+x^2} \right) dx = ?$

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$\checkmark$  A.  $e^x \tan^{-1} x$

$e^x \left( \tan^{-1} x + \frac{e^x}{1+x^2} \right)$

B.  $e^x \sec^{-1} x + \frac{e^x}{1+x^2}$

C.  $e^x \sec^{-1} x$

D.  $\frac{e^x}{1+x^2}$

62. Which of the following statements is NOT true?

A. An infinite cyclic group has exactly two distinct generators.

B. Every cyclic group is abelian.

C. If  $G$  is a cyclic group of even order, then there is only one subgroup of order 2 in  $G$ .

D. Every subgroup of a cyclic group is cyclic.

E. Every abelian group is cyclic.

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15

55. For the complex function  $f(z) = \frac{z^2}{z}$  the,  $\lim_{z \rightarrow 0} = \frac{z^2}{?}$  is:

- A. -2
- B. -1
- C.  $\infty$
- D. 1
- E. 2

56. If  $a$ ,  $b$  and  $c$  are represented by vectors with a common initial point then  $a \cdot (b \times c) = 0$  if and only if:

- A. Vectors  $a$ ,  $b$  and  $c$  are coplanar
- B. Vectors  $a$ ,  $b$  and  $c$  have the same direction
- C. Vectors  $a$ ,  $b$  and  $c$  are unit vectors
- D. Vectors  $a$ ,  $b$  and  $c$  have the same magnitude

57. Let  $c = a + ib$  be a complex number, where  $c \neq 0, \pm 1, \pm 2, \dots$  and

$|c|$  is multiple valued. What restriction must be placed on the "c" so that the values of  $|c|$  are all the same?

- A.  $c$  is real
- B.  $c$  is imaginary
- C.  $\operatorname{Re}(c) = \operatorname{Im}(c)$
- D.  $\operatorname{Re}(c) = -\operatorname{Im}(c)$

58. Find  $\lim_{x \rightarrow \frac{\pi}{2}} \frac{x - \frac{\pi}{2}}{\cos(x - \frac{\pi}{2})} = ?$

- A.  $\frac{\pi}{2}$
- B. 1
- C. -1
- D.  $\infty$
- E. 0

59. If  $f(x) = x^2 - 2$  and  $g(x) = x + 3$ , for what value of "x" is  $f \circ g(x)$

$= g \circ f(x)$ :

- A.  $x = -2$
- B.  $x = 2$
- C.  $x = 1$
- D.  $x = 0$
- E.  $x = -1$

$$\begin{aligned} & f(x+3) = (x+3)^2 - 2 \\ & x^2 - 2 + 3 = x^2 + 6x + 9 - 2 \\ & 1 = 6x + 7 \\ & 6x + 6 = 0, 6(1+1) = 0 \\ & x = -1 \end{aligned}$$

## ENGLISH

Questions 1-3 are based on the following passage.

Psychologists have found that privately made resolutions are rarely followed, whereas a public commitment to achieve some goal, such as losing weight or giving up smoking, is likely to be much more effective. This is because the approval of others for reaching one's target is valued. In contrast, disapproval for failure can lead to feelings of shame.

Advertising agencies have designed studies hearing out the truth of this observation. In their research, a group of strangers was bombarded with information about the qualities of a particular product. They were then asked to either announce out loud or write down privately whether they intended to buy the product. It was later discovered that those who publicly declared their intention to buy were considerably more likely to do so than those who affirmed their intentions in private.

In another study, an experimenter claiming to represent a local utility company interviewed homeowners, telling them he was investigating ways in which energy consumption could be reduced. Half the subjects, randomly selected, were told that if they agreed to conserve energy, their names would be mentioned in an article published in the local newspaper; the remaining half were told their names would not be used. All those interviewed agreed to cooperate and signed a form either giving consent for their names to be used or stating that their names would not be used. Later in the year, the amount of gas consumed in each house was recorded. The owners who had agreed to their names being published had used significantly less gas than those who remained anonymous.

- .. It can be inferred that all of the following help motivate a person to achieve a goal EXCEPT:

- A. a desire for approval
- B. a fear of disapproval
- C. a fear of failure
- D. a sense of noncommitment

Why were advertising agencies probably interested in conducting their study?

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- A. They want to introduce their people to more products.
- B. They wanted to demonstrate the quality of their clients' product.
- C. They wanted to know if people intended to purchase their clients' products.
- D. They wanted to find the best way to get people to buy their clients' products.

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63. Which of the following conditions is NOT equivalent to the rest of the equivalent conditions?

- A. A is non singular. ✓ A is  $\neq 0$
- B. A has rank n.
- C. A has nullity 0.
- D. The columns of A form a linearly independent set of n vectors in  $R^n$ .
- E. Zero is an eigen value of A.

64. Which of the following is/are the properties of the two non-coplanar straight lines?

- A. The lines Intersect
- B. The lines are parallel
- C. The lines are perpendicular
- D. The lines neither intersect nor they are parallel ✓ D.N.T
- E. The lines intersect but they are not parallel ✓ E

65. The asymptotes of the equation of the hyperbola  $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$  are:

- A.  $y = \frac{b}{a}x$  and  $y = -\frac{b}{a}x$
- B.  $y = \frac{a}{b}x$  and  $y = -\frac{a}{b}x$
- C.  $x = \frac{b}{a}y$  and  $x = -\frac{b}{a}y$
- D.  $x = \frac{b}{a}y$
- E.  $y - x = \frac{b}{a}$

66. Which formula is usually applied for interpolations near the beginning of a table?

- A. Central difference formulas
- B. Newton backward formula
- C. Newton forward formula ✓ C
- D. Lagrange formula
- E. Aitken's method

75.  $\int_1^2 e^x \left( \frac{1}{x} - \frac{1}{x^2} \right) dx = ?$

$$e^x \ln x - \int e^x \ln x \cdot \frac{1}{x} dx$$

$$\left[ e^x \ln x \right]_1^2 - \int e^x \ln x \cdot \frac{1}{x} dx$$

$$= \left[ e^x \ln x \right]_1^2 - \int e^x \ln x \cdot \frac{1}{x} dx$$

A.  $\frac{e^2}{2} + e$

B.  $\frac{e^2}{2} - e$

C.  $e - \frac{e^2}{2}$

D.  $e^2 - e$

76. For an experiment laid in Latin square design with 5 treatments, then the error in degree of freedom will be:

A. 20

B. 18

C. 16

D. 12

E. 8

77. Corner points of feasible region of:

Max :  $f(x_1, x_2) = 3x_1 + 2x_2$

subject to

$$\begin{cases} x_1 + x_2 \leq 4 \\ -x_1 + x_2 \leq 1, \\ x_1, x_2 \geq 0 \end{cases}$$

are

- A.  $(0, 1), (3/2, 5/2), (4, 0)$   
 B.  $(0, -1), (3/2, 5/2), (-4, 0)$   
 C.  $(1, 0), (3/2, 5/2), (4, 0)$   
 D.  $(0, 1), (-3/2, 5/2), (4, 0)$

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19

75.  $\int_1^2 e^x \left( \frac{1}{x} - \frac{1}{x^2} \right) dx = ?$

$$e^x \ln x - \int e^x \ln x \cdot \frac{1}{x} dx$$

$$\left[ e^x \ln x \right]_1^2 - \int e^x \ln x \cdot \frac{1}{x} dx$$

$$= \left[ e^x \ln x \right]_1^2 - \int e^x \ln x \cdot \frac{1}{x} dx$$

A.  $\frac{e^2}{2} + e$

B.  $\frac{e^2}{2} - e$

C.  $e - \frac{e^2}{2}$

D.  $e^2 - e$

76. For an experiment laid in Latin square design with 5 treatments, then the error in degree of freedom will be:

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subject to

$$\begin{cases} x_1 + x_2 \leq 4 \\ -x_1 + x_2 \leq 1, \\ x_1, x_2 \geq 0 \end{cases}$$

are

- A.  $(0, 1), (3/2, 5/2), (4, 0)$
- B.  $(0, -1), (3/2, 5/2), (-4, 0)$
- C.  $(1, 0), (3/2, 5/2), (4, 0)$
- D.  $(0, 1), (-3/2, 5/2), (4, 0)$

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19

## CURRENT AFFAIRS / Q

86. When your blood glucose levels decrease and you experience an unpleasant sensation, it means \_\_\_\_\_.

- A. Your blood pressure is high
- B. You need insulin
- C. You are hungry
- D. You are going to vomit
- E. You are healthy

87. In the context of social vulnerability, the morale of a person relates to:

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- A. livelihood
- B. self protection
- C. initial well being
- D. social protection

88. The teachings of \_\_\_\_\_ emphasize upon values such as human dignity, social justice, helping the needy, and integrity and thus promoting tolerance.

- A. Culture
- B. Religion
- C. Philosophy
- D. Psychology

89. First Marshal law in Pakistan was imposed on:

- A. 1958
- B. 1968
- C. 1955
- D. 1962
- E. 1948

90. In 1988, Benazir Bhutto was elected as the first woman prime minister in the \_\_\_\_\_.

- A. World
- B. Asia
- C. Muslim World
- D. Western World

91. Khilafat Movement was a political protest campaign launched in India during the:

- A. 1910s
- B. 1920s
- C. 1930s
- D. 1940s

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92. Hilf-al-Fudul was a:

- A. Battle
- B. Dispute
- C. Boycott
- D. Tradition
- E. Treaty

93. When was Hazrat Umer(RA) martyred?

- A. 21st Hijrah
- B. ✓ 23rd Hijrah
- C. 25th Hijrah
- D. 27th Hijrah

94. The main reason for the battle of Tabook was:

- A. Mischief of Christians
- B. Mischief of Jews
- C. ✓ Mischief of Romans
- D. Mischief of Buddhist

95. The second largest world water source is:

- A. Ocean
- B. ✓ Ice caps and Glaciers
- C. Under ground water
- D. Lakes

96. Global warming and sunscreen effect is:

- A. One and the same thing
- B. ✓ Contrast to each other
- C. Enhancing each other
- D. Both A and C

97. Burning of which of the following fuels produces the least amount of  $CO_2$  per unit of energy?

- A. Coal
- B. Oil
- C. ✓ Natural gas
- D. Wood

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23

38. A school is considered to be child friendly if it provides all of the following EXCEPT:

- A. Safe environment
- B. Healthy environment
- C. Protective environment
- D. Relaxed discipline

39. The classroom teaching requires teachers to pay greater attention to:

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- A. The classroom discipline
- B. The subject matter
- C. The needs of every individual child
- D. The teaching method

40. In Pakistan for promoting a child friendly atmosphere in the entire department of education, the Government of Punjab has linked it with its policy of:

- A. Recruitment of educators and AEOs
- B. Up-gradation of schools
- C. Improvement of examination system
- D. Release of grants

1. Professional Development Teachers appointed in TARCs were necessarily:

- A. Mixed i.e. male and female
- B. Male
- C. Female
- D. Gender-wise rotated

2. Relationship of contents of a subject at different classes in school curriculum is called:

- A. Centralization
- B. Horizontal Organization
- C. Vertical Organization
- D. Decentralization.

43. Hilda Taba's Curriculum Model has:

- A. Seven Stages
- B. Nine Stages
- C. Three Stages
- D. Five Stages

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9

33. Which of the following is NOT an element because it is a mixture of iron, carbon and chromium?

- A. Magnesium
- B. Zinc
- C. Neon
- D. Steel
- E. Silver

34. Cement powder mixed with water forms a thick suspension, called  
a \_\_\_\_\_.

- A. lotion
- B. hybrid
- C. cleaner
- D. slurry

35. میرزا محمد سعید کراچی یونیورسٹی میں \_\_\_\_\_ تھے۔

کلری

A. دی پین اور

B. سینٹر

C. ولس جاہل

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36. سینق "پرستان کی شہزادی" میں موجود "خاتون" روش کیے  
عرض \_\_\_\_\_ کے بجou کو فران ہڑھا کرتی تھیں۔

- A. سردار صاحب
- B. صاحب بیان
- C. میر صاحب
- D. جو بدری صاحب

37. 'جغلخور' اپنے مالک کے ہاتھ میں بٹتا ہے کہ اسے \_\_\_\_\_ کی  
بیماری بوکتی ہے۔

A. شیبی

B. کینسر

C. برفلن

D. کوئڈہ

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27. The specific learning outcomes should be realistic, observable and:

- A. Relevant
- B. Measurable
- C. Valid
- D. Comprehensive
- E. Teachable

28. In 'Little by Little One Walks Far', the first job of the writer was:

- A. at a boarding school
- B. at the English language center
- C. at McDonalds'
- D. at D.K academy

29. Great Expectations is a story from \_\_\_\_\_.

- A. 17th century
- B. 18th century
- C. 19th century
- D. 21st century

30. In lesson 'Faithfulness', 'Halt' refers to \_\_\_\_\_.

- A. Stay
- B. Stop
- C. Eat
- D. Mount
- E. Crash

31. Which of the following is a jelly-like substance which makes up most of the cells in both plants and animals?

- A. Epidermis
- B. Cytoplasm
- C. Palisade
- D. Chloroplast

32. In human beings, hydrogen ion concentration of blood is mainly maintained by:

- A. Evaporation
- B. Respiration
- C. Osmo-regulation
- D. Sweating
- E. Transpiration

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44. The characteristics of the tool that it measures what it is designed to measure is:

- A. Validity
- B. Objectivity
- C. Reliability
- D. Usability

45. To determine the students level at the beginning of the instruction, teacher uses:

- A. Placement Assessment
- B. Formative Assessment
- C. Diagnostic Assessment
- D. Summative Assessment

46. A test is said to be valid when it:

- A. is fair and free from teacher bias
- B. measures what it claims to measure
- C. produces consistent results, over time
- D. has safeguards against cultural bias

47. Education administrators of a particular district want to find out how well their district is achieving standards set by the government. What sort of test should be used for this purpose?

- A. Norm-referenced
- B. Criterion-referenced
- C. Functionally-referenced
- D. Teacher-referenced

48. The incorrect options in multiple choice questions are named as:

- A. Responses
- B. Premises
- C. Distractors
- D. Answers
- E. Hurdles

49. Comprehension is the \_\_\_\_\_ level in the Bloom's Taxonomy of Educational Objectives.

- A. first
- B. second
- C. third
- D. fourth

## URDU

26. مولانا ادیب کی وجہ شہرت کن ثریا مون کی بدولت سے؟  
A. استیج  
B. رینیو  
C. تی وی  
D. کتابی  
E. معاشرتی
27. "مردم دیدہ" کے خاکوں کا موضوع کیا ہے؟  
A. لوگ  
B. اشخاص  
C. منظر  
D. احباب
28. یہ شعر کس صنف سے تعلق رکھتا ہے?  
پہنچتا ہے بر اک مے کش کے اگے دور جام اس کا  
کسی کو تشنہ لب رکھتا تہیں ہے لطف عام اس کا  
A. حمد  
B. نعت  
C. غزل  
D. نظم  
E. منقبت
29. "قطعہ کلامی" کس کی تخلیق ہے?  
A. انور مسعود  
B. انور مقصود  
C. ابن انشاء  
D. مستنصر حسین تارڑ  
E. انتظار حسین
30. میر ترقی میر کی غزلیات کا بنیادی موضوع کیا ہے?  
A. غم  
B. خوشی  
C. لطف اندوزی  
D. امید

## URDU

26. مولانا ادیب کی وجہ شہرت کن ثریا مون کی بدولت سے؟  
A. استیج  
B. رینیو  
C. تی وی  
D. کتابی  
E. معاشرتی
27. "مردم دیدہ" کے خاکوں کا موضوع کیا ہے؟  
A. لوگ  
B. اشخاص  
C. منظر  
D. احباب
28. یہ شعر کس صنف سے تعلق رکھتا ہے?  
پہنچتا ہے بر اک مے کش کے اگے دور جام اس کا  
کسی کو تشنہ لب رکھتا تہیں ہے لطف عام اس کا  
A. حمد  
B. نعت  
C. غزل  
D. نظم  
E. منقبہ
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B. خوشی  
C. لطف اندوزی  
D. امید

## SUBJECT TWO

76. According to the instruction for the year 2014-15 Non Salary Budget, which one of the followings comes under the heading 'Fixed' for the purpose of allocation of Non Salary Budget?

- A. Photocopying and printing
- B. Electricity, minor repair
- C. Computer and other requirements
- D. Learning material

77. The Non Salary Budget can give the \_\_\_\_\_ tools which may be used by them for structuring finance rules and accountability mechanisms for managing incentives.

- A. Provincial governments/district governments
- B. Tehsil governments/district governments
- C. District governments/ School Management Councils
- D. Union councils

78. What is the name of the body/authority authorized to allocate funds to schools under the Non Salary Budget formula?

- A. DPIS
- B. CPDT
- C. PERSP
- D. PMIU

79. Psychosis is a sign of an underlying mental illness and temporary loss of contact with:

- A. reality
- B. memory
- C. hearing
- D. smelling

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80. The act of bullying with cruel spoken words, involves ongoing name-calling, threatening, and making disrespectful comments about someone's attributes is named as:

- A. Physical bullying
- B. Verbal bullying
- C. Relational bullying
- D. Cyber bullying

Willingness to take part in teacher's demonstration is:

- A. Receiving
- B. Responding
- C. Cauterization
- D. Valuing
- E. Organization

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Operant conditioning refers to:

- A. learning through association
- B. learning through observation
- C. learning through consequences
- D. learning through reinforcements

Pragmatism in education philosophy is also named:

- A. Scholasticism
- B. Thomism
- C. Idealism
- D. Experientialism

School leadership which takes care of lower-level needs is termed as:

- A. Instructional leadership
- B. Transactional leadership
- C. Functional leadership
- D. Managerial leadership

43. طھارت جي لغوی معنی تیٹھ آهي.

- A. صفائی
- B. پاک
- C. غسل
- D. وضو

44. بھرت کے معنی ہونے کے ہیں۔

- A. ایک جگہ سے دوسری جگہ منتقل
- B. ایک گھر سے دوسرے گھر منتقل
- C. سمندر کے پار منتقل
- D. ایک ملک سے دوسرے ملک بے دخل

44. هجرت جي معنی آهي

- A. هک جگہ کان ہی جگہ دا نہ منتقل تیٹھ
- B. هک گھر کان ہی گھر دا نہ منتقل تیٹھ
- C. سمند پار منتقل
- D. هک ملک کان پی ملک دا نہ بی دخلی

45. جہاد کی ایک قسم یعنی اپنے جسم و جان کا جہاد کرنا ہے۔

- A. جہاد بالمال
- B. جہاد بالنفس
- C. جاد بالعلم
- D. جہاد اکبر

45. جہاد جو هک قسم یعنی پنهنجی جسم و جان سان جہاد کرنا ہے

- A. جہاد بالمال
- B. جہاد بالنفس
- C. جہاد بالعلم
- D. جہاد اکبر

## GENERAL KNOWLEDGE

73.'Air Blue' is the airline of:

- A. Pakistan
- B. Canada
- C. Japan
- D. India

74.Which is the biggest bird?

- A. Eagle
- B. Owl
- C. Kiwi
- D. Ostrich

75.The national poet of Pakistan is:

- A. Aslam Iqbal
- B. Allama Iqbal
- C. Haider Ali
- D. Ahmad Faraz

76.The world's largest producer of silk is:

- A. Malaysia
- B. Bangladesh
- C. China
- D. India

77.Which is the most important and longest river of Pakistan?

- A. Beas
- B. Jhelum
- C. Sutlej
- D. Indus

78.'Nanga Parbat Peak' is situated in:

- A. Himalayas
- B. Karakoram
- C. Hindukush
- D. Sulaiman Range

22. Technique used for evaluation of learning progress during instruction is called:

- A. Diagnostic Evaluation
- B. Placement Evaluation
- C. Formative Evaluation
- D. Summative Evaluation
- E. Need based Evaluation

23. The lowest level of learning in affective domain is:

- A. Attending
- B. Valuing
- C. Characterization
- D. Organization
- E. Responding

24. Intuitive thinking:

- A. has been encouraged by traditional teaching
- B. is not a cognitive process
- C. is not included in affective domain
- D. is part of the process of discovery
- E. is less valuable

25. Education is a process of bringing desirable change into:

- A. Behavior
- B. Individual
- C. Class
- D. Knowledge

P-16-2304-B-YELLOW-180316

Complete the sentences by choosing the most appropriate option, from the given choices (A to D/E) below each.

13. Since many teachers today draw on material from a variety of sources, disciplines, and ideologies for their lessons, their approach could best be called \_\_\_\_\_.

- A. electric
- B. simplistic
- C. invidious
- D. impromptu
- E. dogmatic

14. According to the World Health Organization, \_\_\_\_\_ any of the six most dangerous diseases to break out, it could be the cause for quarantine.

- A. were
- B. they were
- C. there were
- D. were they

15. Fortunately, he was \_\_\_\_\_ his accomplishments, absolutely unwilling to \_\_\_\_\_ them before his friends.

- A. excited by ... parade
- B. immodest about ... discuss
- C. deprecatory about ... flaunt
- D. uncertain of ... concede
- E. unaware of ... conceal

## SCIENCE

21. During respiration we take \_\_\_\_\_ into the lungs and exhale \_\_\_\_\_ to the atmosphere.

- A. Oxygen ... nitrogen
- B. Oxygen ... carbon dioxide
- C. Carbon dioxide ... Oxygen
- D. Carbon dioxide ... nitrogen

22. Which of the following is non-biodegradable?

- A. Grass clippings
- B. Feather
- C. Styrofoam
- D. Paper

23. Matter has how many states?

- A. 2
- B. 3
- C. 4
- D. 5
- E. 6

24. An animal has legs, skeleton and segmented body but lacks backbone and gills. To which of the following does it belong?

- A. Bacteria
- B. Algae
- C. Vertebrates
- D. Invertebrates

25. In Fahrenheit scale, the freezing point of water is \_\_\_\_\_ and boiling point of water is \_\_\_\_\_.

- A. 0°F ... 100°F
- B. 32°F ... 212°F
- C. 50°F ... 150°F
- D. -273°F ... 273°F

26. When light source is far away from the object, the shadow formed is:

- A. Equal in size to the object
- B. Smaller in size than the object
- C. Bigger in size than the object
- D. Double in size than the object

54. The lunch was enjoyed by the guests.

- A. The guests enjoyed the lunch.
- B. The guests were enjoying the lunch.
- C. The guests will enjoy the lunch.
- D. The guests enjoy the lunch.

55. The photographer will take photographs of the wedding.

- A. The photographs of wedding will taken by the photographer.
- B. The photographs of wedding was taken by the photographer.
- C. The photographs of wedding be taken by the photographer.
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- E. The photographs of wedding is taken by the photographer.

Change the narration of the following (Direct & indirect speech)

56. The teacher said, "One should respect the feelings of others."

- A. The teacher advises that one should respect the feelings of others.
- B. The teacher advised that one should be respect the feelings of others.
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57. The tortoise exclaimed with joy that he had won the race.

- A. The tortoise said, "I won the race."
- B. The tortoise said, "Hurrah! I win the race."
- C. The tortoise said, "Hurrah! I had won the race."
- D. The tortoise said, "I had won the race."
- E. The tortoise said, "Hurrah! I won the race."

58. "Jawad thinks that stick is neat," he said.

- A. He said that Jawad thought that stick was neat.
- B. He said that Jawad thinks that stick was neat.
- C. He said that Jawad thought that stick is neat.
- D. He said that Jawad thought that stick neat.

## **CA/GK**

**31.** To reach the nadir means to reach \_\_\_\_\_.

- A. The nearest point
- B. The highest point
- C. The lowest point
- D. The closest point

**32.** The main country in which the Shinto religion is practiced is:

- A. China
- B. India
- C. Japan
- D. Thailand
- E. Nepal

**33.** Who is Pope?

- A. Head of the Roman Catholic Church
- B. Head of the Protestants
- C. Head of the US Catholic church
- D. Head of the English Church

**34.** Who is the champion of Cricket World Cup 2015?

- A. New Zealand
- B. Australia
- C. England
- D. India
- E. Pakistan

**35.** The operation launched against Chotu Gang in Rajanpur by  
Pakistan Army was named as:

- A. Zarb-e-Azb
- B. Zarb-e-Ashan
- C. Operation Rah-e-Rast
- D. Operation Rah-e-Nijat
- E. Combing operation

## PEDAGOGY

91. The teachers' emphasis on thinking rather than behavior and active learning rather than passive are examples of:

- A. Behaviorism
- B. Neo-behaviorism
- C. Social learning
- D. Information processing

92. The quality possessed by the individual to adapt rapidly to the situation can be best related to:

- A. Intelligence
- B. Creativity
- C. Aptitude
- D. Attitude

93. Education is a process of bringing desirable change into:

- A. Behavior
- B. Conduct
- C. Character
- D. Social action

94. The first consideration of planning a teaching session is:

- A. Teaching material
- B. Concerning outcomes
- C. AV aids
- D. Assessment tools

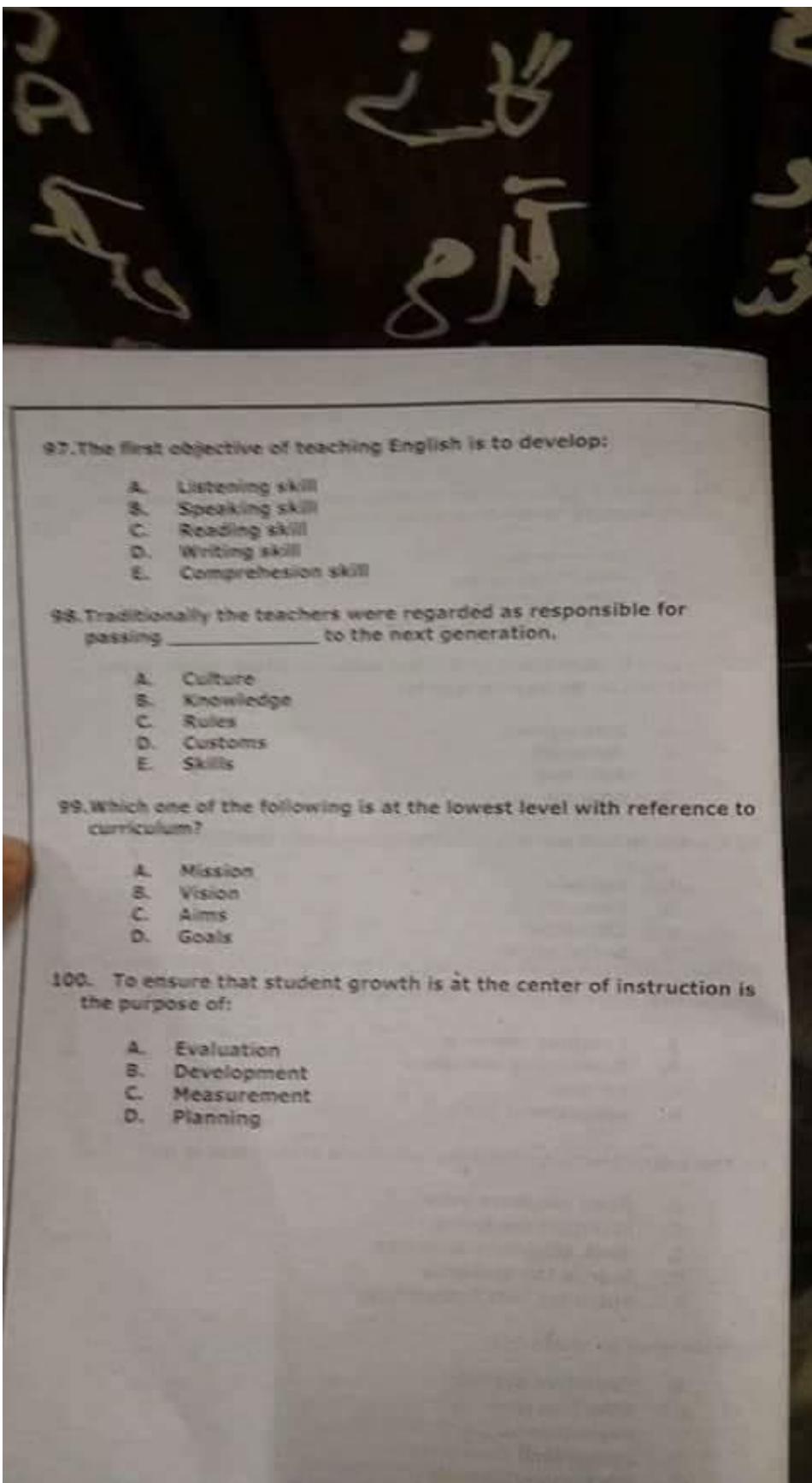
95. The best objective of asking questions in the class is to:

- A. Keep students busy
- B. Maintain discipline
- C. Seek student's attention
- D. Startle the students
- E. Show his/her knowledge

96. Evaluation is related to:

- A. Cognitive domain
- B. Affective domain
- C. Psychomotor domain
- D. Integrated domain
- E. Mechanical domain

16-2382-A 1-PINK-091016



97. The first objective of teaching English is to develop:

- A. Listening skill
- B. Speaking skill
- C. Reading skill
- D. Writing skill
- E. Comprehension skill

98. Traditionally the teachers were regarded as responsible for passing \_\_\_\_\_ to the next generation.

- A. Culture
- B. Knowledge
- C. Rules
- D. Customs
- E. Skills

99. Which one of the following is at the lowest level with reference to curriculum?

- A. Mission
- B. Vision
- C. Aims
- D. Goals

100. To ensure that student growth is at the center of instruction is the purpose of:

- A. Evaluation
- B. Development
- C. Measurement
- D. Planning

## MATH

1. What is the place value of '7' in number 75234?
  - A. Ones
  - B. Tens
  - C. Hundreds
  - D. Thousands
  - E. Tens thousands
2. There are 565 male voters and 335 female voters in a village.  
What is the percentage of male voters in the village?
  - A. 66.5
  - B. 33.5
  - C. 50.5
  - D. 45.5
3. A room is 8 meters long and 6 meters wide. The floor of the room  
is to be paved with square tiles. What should be the maximum  
length of the tile to be used?
  - A. 1m
  - B. 2m
  - C. 4m
  - D. 6m
  - E. 8m
4. Find the least number so that when it is divided by 10, 12, 16 and  
18 leaves zero as remainder?
  - A. 520
  - B. 620
  - C. 720
  - D. 820
5. If  $\frac{5}{2}$  of the work is completed in 15 days. How much work will be  
done in one day?
  - A.  $\frac{75}{2}$
  - B.  $\frac{1}{6}$
  - C.  $\frac{2}{75}$
  - D.  $\frac{6}{75}$

P-16-2382-A 1-PINK-091016

71. سنگی کامٹب سے:

- A پھریں زمیں
- B ستہیں
- C پھر اپنے والا
- D پھر مرانے والا

72. حمیت کامٹب سے:

- A پس شرمی
- B خیرت مندی
- C عراسی
- D نسبت
- E خربت

73. وید کامٹب سے:

- A پریشان
- B لکھن
- C شک
- D وہن

74. جہنمہلاں کا منشاء سے:

- A مطہن بولنا
- B نسب کھانا
- C خدا بولنا
- D بے جن بولنا

75. مطلب لکل چائے کیسے بد لوک — اس طرح انکھیں بھر دیں

جس:

- A الو
- B نومزی
- C طوطی
- D عبور
- E حوت

## URDU

.66.

فلمیوں میں رہے ہیں۔

- A. میں
- B. کی
- C. کے
- D. نے
- E. کو

.67.

بچہ — میں ڈھنڈورا اشپر میں۔

- A. بانٹہ
- B. سارٹہ
- C. بغل
- D. گود
- E. بڑوں

.68.

گرانمر کی رو سے ایبور — یے۔

- A. اسم نکرہ
- B. اسم معرف
- C. فعل
- D. امدادی فعل

.69.

کیوں کہیے کہ، اسم نکرہ کیے مقابلہ ہے — ہیں۔

- A. اسم معرف
- B. اسم جامد
- C. اسم استفہام
- D. اسم ذات

.70.

غزل کا پہلا مصروف جس کی دو نوں مصروفیت ہے بھ قافیہ اور بھ ردیف  
بون — گھلاتا ہے۔

- A. پہلہ مشعر
- B. مطلع
- C. مکھڑا
- D. مقطع

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6. There are 2575 chicks and 1323 hens in a poultry farm. How many more chicks are there than hens?

- A. 1252
- B. 1152
- C. 1352
- D. 1452

7. A student solves 36 questions of mathematics every day. How many questions did he solve in 7 days?

- A. 42
- B. 216
- C. 242
- D. 252

8. Two bags of flour together weigh 125kg-32gm, if the weight of one bag is 62kg-500gm. What is the weight of other bag?

- A. 62kg-532gm
- B. 63kg
- C. 63kg-825gm
- D. 64kg

9. Which of the following closed figure has no side?

- A. Triangle
- B. Square
- C. Circle
- D. Rectangle

10. Find the perimeter of a rectangle whose length is 8 cm and breadth is 4 cm?

- A. 24cm
- B. 12cm
- C. 32cm<sup>2</sup>
- D. 24cm<sup>2</sup>

11. If the length of a sea turtle is directly proportional to its age, and a 2-year old sea turtle is 3 inches long, how many feet long is an 80-year old sea turtle?

- A. 10
- B. 12
- C. 100
- D. 120
- E. 144

16-2382-A 1-PINK-091016

12. Simplify:

$$4 \times [0.7 + [1.6 + 3.8 - (1.1 \times 0.75)]]$$

- A. 19
- B. 19.1
- C. 20
- D. 20.1
- E. 21.1

13. Convert  $40^{\circ}\text{C}$  in Fahrenheit.

- A.  $100^{\circ}\text{F}$
- B.  $102^{\circ}\text{F}$
- C.  $104^{\circ}\text{F}$
- D.  $105^{\circ}\text{F}$

14. Ratio of milk to water is 4:1, if there are 8 litres of milk then find volume of water in it?

- A. 2 litres
- B. 4 litres
- C. 6 litres
- D. 8 litres

15. An angle whose measure is greater than  $180^{\circ}$  but less than  $360^{\circ}$  is called:

- A. Acute angle
- B. Obtuse angle
- C. Complete angle
- D. Reflex angle
- E. Right angle

16. Find the expenditure of carpeting a room of 5 meters length and 4 meters width at a rate of Rs. 100 per meter square?

- A. Rs. 1000
- B. Rs. 1500
- C. Rs. 2000
- D. Rs. 4000

17. The number of times a value occurs in a data is called \_\_\_\_\_ of the value.

- A. Mean
- B. Median
- C. Frequency
- D. Range

P-16-2382-A 1-PINK-091016

**ENGLISH**

Complete the sentences by choosing the most appropriate option, from the given lettered choices (A to D/E) below each.

71. Ali \_\_\_\_\_ bananas.

- A. buy
- B. buys
- C. bring
- D. buying

72. \_\_\_\_\_ are Ahmed and Maira.

- A. He
- B. She
- C. Their
- D. They
- E. Them

73. In the old days, the people had opportunity to \_\_\_\_\_ each other more often than we do today.

- A. quarrel
- B. meet
- C. beat
- D. close

74. The moon was \_\_\_\_\_.

- A. falling
- B. beaming
- C. calling
- D. laughing

75. I get \_\_\_\_\_ early in the morning.

- A. off
- B. to
- C. up
- D. with
- E. on

Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters.

76.PRESS:

- A. excel
- B. desire
- C. push
- D. pull

77.USED:

- A. worn
- B. applied
- C. new
- D. past
- E. old

78.BEHIND:

- A. blind
- B. back
- C. rear
- D. cross
- E. front

79. DEVELOPED:

- A. modern
- B. backward
- C. urban
- D. wide
- E. new

80.ASTONISH:

- A. confound
- B. startle
- C. astound
- D. forewarn

Choose the word most similar in meaning to the capitalized ones.

81.SHORT:

- A. shoot
- B. small
- C. tall
- D. ugly

P-16-2382-A 2-BLUE-091016

32.PRETTY:

- A. nasty
- B. noisome
- C. attractive✓
- D. authoritative

33.SHINE:

- A. dull ✓
- B. brittle
- C. opaque
- D. different
- E. sparkle✓

60

34.CONTINUE:

- A. consume
- B. carry on✓
- C. prevent
- D. stop

35.PERHAPS:

- A. surely✓
- B. rarely
- C. mistakenly
- D. carelessly
- E. possibly

Change the voice of the following. (Active & passive voice)

1. Touch your head.

- A. Let your head touched.
- B. Let your head be touches.
- C. Let touch your head.
- D. Let your head be touched✓

2. The blackboard is being written on by the teacher.

- A. The teacher writes on the black board.
- B. The teacher wrote on the black board.
- C. The teacher has been writing on the black board.
- D. The teacher is writing on the black board.
- E. The teacher had written on the black board.✓

**88. The cow will be hunted by the lioness.**

- A. The lioness hunts the cow.
- B. The lioness hunted the cow.
- C. The lioness will be hunting the cow.
- D. The lioness will hunt the cow.
- E. The lioness had been hunting the cow.

**89. The waitress served the queen.**

- A. The queen is served by the waitress.
- B. The queen serves by the waitress.
- C. The queen was served by the waitress.
- D. The queen has been served by the waitress.

**90. Mother bear had made the porridge.**

- A. The porridge was made by mother bear.
- B. The porridge had been made by mother bear.
- C. The porridge is made by mother bear.
- D. The porridge has been made by mother bear.
- E. The porridge made by mother bear.

**Change the narration of the following (Direct & indirect speech)**

**91. They said to their friend, "We are happy with you."**

- A. They told there friend that they were happy with him.
- B. They told their friend that they are happy with him.
- C. They told their friend that they were happy with him.
- D. They told their friend that they were being happy with him.
- E. They told their friend that they had been happy with him

**92. He said to me, "Respect your elders."**

- A. He advised me to respect my elders.
- B. He advised me to respect his elders.
- C. He advised me to respect your elders.
- D. He advises me to respect my elders.

**93. They said that they did not waste their time.**

- A. They said, "We did not waste our time."
- B. They said, "We do not waste our time."
- C. They said, "We had not waste our time."
- D. They said, "We have not waste our time."
- E. They said, "We will not waste our time."

**P-16-2382-A 2-BLUE-091016**

41. The modulus of the sum of three mutually perpendicular unit vectors is:

- A. 3
- B.  $\sqrt{3}$
- C. 0
- D. 1

42. For what value of 'a' the magnitude of the vector  $ai + (a+1)j + (a-1)k$  is 2?

- A.  $\frac{\sqrt{2}}{3}$
- B.  $\frac{2}{3}$
- C.  $\frac{\sqrt{3}}{2}$
- D.  $\frac{3}{2}$

43. Find the  $\int \int \int_{000}^{542} dx dy dz$

- A. 20
- B. 40
- C. 8
- D. 10
- E. 35

44. Find the range of value of "a", if the function

$f(x) = x^2 + ax + 3x - 1$  is always increasing?

- A.  $[-3, 3]$
- B.  $(-3, 3)$
- C.  $(-\infty, -3)$
- D.  $(3, \infty)$
- E.  $(-\infty, \infty)$

P-16-2382-M-BLUE-091016

## SUBJECT

36. Find the limit of the sequence, as  $n$  approaches to infinity,

$$\left\{ \frac{n}{\sqrt{n+2}} \right\}$$

- A. 1
- B. 0
- C. 2
- D.  $\sqrt{2}$
- E.  $\infty$

37. The general form of particular solution  $y_p$  for the differential equation  $y''' = 1$  is:

- A. A
- B.  $Ax^3$
- C. Ax
- D.  $Ax^2$
- E.  $Ax^4 + B$

38. Let H be a subgroup of a group G with  $O(H) = 25$  and  $O(G) = 75$  then index of H in G is \_\_\_\_\_.

- A. -3
- B. 25
- C. 20
- D. 3
- E. 50

39. Calculate the acceleration of the particle moving in a straight line according to the distance function,  $s = t^2 - 4t + 2$ .

- A. 2
- B. 0
- C. 1
- D. -2
- E. -4

40. The volume of parallelepiped, whose edges are;

$a = 4i - 2j - k$ ,  $b = i + 3j - 3k$  and  $c = 5i + 2j + 4k$  is:

- A. 97
- B. 123
- C. 75
- D. 67

P-16-2382-M-BLUE-091016

33. The relationship between the product of the roots of  $px^2 + qx + c = 0$  are equal to:

- A.  $\frac{q}{p}$
- B.  $\frac{c}{p}$
- C.  $\frac{-q}{p}$
- D.  $\frac{c}{q}$

34. If  $27^{4x-10} \times 3^{4x+2} = 81$ , what is the value of x?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

35. If the average (arithmetic mean) of the set of numbers below is 6,  
then find the value of Y:  
 $\{1, 4, 6, Y\}$

- A.  $Y=13$
- B.  $Y=5$
- C.  $Y>13$
- D.  $Y>6$

60. A real valued function  $H$  of two real variables  $x$  and  $y$  having continuous partial derivatives of the first and second order and satisfying Laplace equation is \_\_\_\_\_.

- A. Harmonic function
- B. Entire function
- C. Analytic function
- D. Laplace function

61. The harmonic conjugate of the function  $u(x, y) = y^3 - 3x^2y$  is:

- A.  $v(x, y) = -3xy^2 + x^3 + C$
- B.  $v(x, y) = 2x - x^2y + C$
- C.  $v(x, y) = -xy + \frac{x^2}{3} + C$
- D.  $v(x, y) = -4x^2y^3 - 2x^2 + C$
- E.  $v(x, y) = -3x + x^3y + C$

62. Which one of the following functions holds the reflection principle?

- A.  $f(z) = z + i$
- B.  $f(z) = z + i^3$
- C.  $f(z) = z + 1$
- D.  $f(z) = iz^2$
- E.  $f(z) = z - i$

63.  $(1 - i)^4$  when reduced to real number gives:

- A. 2
- B. -2
- C. 4
- D. -4
- E. -7

51. The length of the edges of a rectangular parallelepiped formed by planes drawn through the points  $(1,2,3)$  and  $(4,7,6)$  are:

- A. 3,5,3
- B. 3,4,5
- C. 3,4,3
- D. 5,3,3

52. What is the value of  $C$  so that the given function becomes a

density function  $f(x) = \begin{cases} cx^2 & 0 < x < 3 \\ 0 & \text{otherwise} \end{cases}$

- A. 1/3
- B. 1/9
- C. 9
- D. 2/3
- E. 3

53. A computational problem is called \_\_\_\_\_ if small changes in the data (the input) cause large changes in the solution (the output).

- A. Boundary value problem
- B. Initial value problem
- C. Ill-conditioned (Ill pose)
- D. Well-conditioned (well pose)
- E. Boundary as well as well pose problem

54. The surface area of the part of the paraboloid  $Z = x^2 + y^2$  that lies between the planes  $Z = 0$  and  $Z = 9$ .

- A.  $\frac{\pi}{6}(37\sqrt{37} - 1)$
- B.  $\frac{\pi}{6}(37\sqrt{37} + 1)$
- C.  $\frac{2\pi}{3}(37\sqrt{37} - 1)$
- D.  $\frac{2\pi}{3}(37\sqrt{37} + 1)$
- E.  $\frac{\pi}{3}(37\sqrt{37})$

45. An equation containing one or more partial derivatives of a/an \_\_\_\_\_ of two or more independent variables is called Partial differential equation.

- A. Wave function
- B. Known function
- C. Entire function
- D. Laplace function

46.  $U_{xx} = (1 + U_y)^{1/2}$  is partial differential equation of order:

- A. 0
- B. 2
- C. 1
- D. 1/2

47. For any relation if reflexive, symmetric and transitive properties hold then it is called:

- A. Equivalence relation
- B. Ternary relation
- C. Chebyshev's relation
- D. Unary relation

48. According to Euler's Totient function,  $\phi(35) = ?$

- A. 34
- B. 24
- C. 15
- D. 8

49. Probability of two heads in two times tossing a coin is equal to:

- A. 1/2
- B. 1/4
- C. 3/4
- D. 0

50. Let  $R_1$  and  $R_2$  be the radii of convergence of power series

$f(z) = \sum_{n=0}^{\infty} a_n z^n$  and  $f'(z) = \sum_{n=1}^{\infty} n a_n z^{n-1}$  respectively then \_\_\_\_\_.

- A.  $R_1 = R_2$
- B.  $R_2 = \frac{1}{2} R_1$
- C.  $R_1 > R_2$
- D.  $R_1 < R_2$

P-16-2382-M-BLUE-091016

55. The identity  $e^{iz} = \cos z + i \sin z$ ; (where  $z$  is a complex number) is called:

- A. Gauss Formula
- B. Euler Formula
- C. Cauchy Formula
- D. Laplace Formula
- E. Goursat Formula

56. The derivative  $f'(z)$  of the complex function  $f(z) = \bar{z}$  is:

- A. -1
- B. 0
- C.  $\infty$
- D. 1
- E. Does not exist

57. The derivative  $f'(z)$  of the complex function  $f(z) = \sqrt{re^{i\theta}}$  is:

- A.  $-\frac{1}{2f(z)}$
- B.  $-\frac{1}{f(z)}$
- C.  $\frac{1}{f(z)}$
- D.  $\frac{1}{2f(z)}$
- E.  $-f(z)$

58. The complex function  $f(z) = \frac{1}{z}$  is analytic \_\_\_\_\_.

- A. everywhere
- B. at each nonzero point
- C. nowhere
- D. at zero

59. The complex function  $f(z) = 3x + y + i(3y - x)$  is analytic at:

- A. -4
- B. -2
- C. Every point
- D. 1
- E. 0

P-16-2382-M-BLUE-Q91016

12

64. The complex exponential function  $e^z = -1$  when:

- A.  $z = (2n+1)\pi i (n = 0, \pm 1, \pm 2, \dots)$
- B.  $z = (\frac{3n}{2} + 1)\pi i (n = 0, \pm 1, \pm 2, \dots)$
- C.  $z = (n - \frac{1}{2})\pi i (n = 0, \pm 1, \pm 2, \dots)$
- D.  $z = (\frac{n}{4} - 1)\pi i (n = 0, \pm 1, \pm 2, \dots)$
- E.  $z = (2n + \frac{1}{2})\pi i (n = 0, \pm 1, \pm 2, \dots)$

65. For nonzero complex variable  $z = re^{i\theta}$  (where  $-\pi < \theta \leq \pi$ )

- A.  $\log z = \ln r + i(\theta + 2n\pi), (n = 0, \pm 1, \pm 2, \dots)$
- B.  $\log z = \ln r + i(\theta + n\pi), (n = 0, \pm 1, \pm 2, \dots)$
- C.  $\log z = \ln r + i(\theta - n\pi), (n = 0, \pm 1, \pm 2, \dots)$
- D.  $\log z = \ln r - i(\theta + 2n\pi), (n = 0, \pm 1, \pm 2, \dots)$

66.  $(1+i)^i = \underline{\hspace{2cm}}$

- A.  $\exp(2n\pi) \exp(i\ln 3), (n = 0 \pm 1, \pm 2, \dots)$
- B.  $\exp(\frac{\pi}{4} + 2n\pi) \exp(\frac{i}{2}\ln 2), (n = 0 \pm 1, \pm 2, \dots)$
- C.  $\exp(\frac{\pi}{2} - n\pi) \exp(i\ln 2), (n = 0 \pm 1, \pm 2, \dots)$
- D.  $\exp(n\pi i) \exp(-i\ln 2), (n = 0 \pm 1, \pm 2, \dots)$

67.  $\int_0^{\frac{\pi}{2}} \int_0^2 (4r - r^3) dr d\theta = \underline{\hspace{2cm}}$ .

- A. 0
- B. 1
- C.  $\pi$
- D.  $2\pi$
- E. 2

64. The complex exponential function  $e^z = -1$  when:

- A.  $z = (2n+1)\pi i (n = 0, \pm 1, \pm 2, \dots)$
- B.  $z = (\frac{3n}{2} + 1)\pi i (n = 0, \pm 1, \pm 2, \dots)$
- C.  $z = (n - \frac{1}{2})\pi i (n = 0, \pm 1, \pm 2, \dots)$
- D.  $z = (\frac{n}{4} - 1)\pi i (n = 0, \pm 1, \pm 2, \dots)$
- E.  $z = (2n + \frac{1}{2})\pi i (n = 0, \pm 1, \pm 2, \dots)$

65. For nonzero complex variable  $z = re^{i\theta}$  (where  $-\pi < \theta \leq \pi$ )

- A.  $\log z = \ln r + i(\theta + 2n\pi), (n = 0, \pm 1, \pm 2, \dots)$
- B.  $\log z = \ln r + i(\theta + n\pi), (n = 0, \pm 1, \pm 2, \dots)$
- C.  $\log z = \ln r + i(\theta - n\pi), (n = 0, \pm 1, \pm 2, \dots)$
- D.  $\log z = \ln r - i(\theta + 2n\pi), (n = 0, \pm 1, \pm 2, \dots)$

66.  $(1+i)^i = \underline{\hspace{2cm}}$

- A.  $\exp(2n\pi) \exp(i\ln 3), (n = 0 \pm 1, \pm 2, \dots)$
- B.  $\exp(\frac{\pi}{4} + 2n\pi) \exp(\frac{i}{2}\ln 2), (n = 0 \pm 1, \pm 2, \dots)$
- C.  $\exp(\frac{\pi}{2} - n\pi) \exp(i\ln 2), (n = 0 \pm 1, \pm 2, \dots)$
- D.  $\exp(n\pi i) \exp(-i\ln 2), (n = 0 \pm 1, \pm 2, \dots)$

67.  $\int_0^{\frac{\pi}{2}} \int_0^2 (4r - r^3) dr d\theta = \underline{\hspace{2cm}}$ .

- A. 0
- B. 1
- C.  $\pi$
- D.  $2\pi$
- E. 2

44. It is possible to cancel earth's magnetic field by running an enormous current loop around the globe. Which way the current should be directed?

- A. East to west
- B. West to east
- C. North to south
- D. South to north

45. The speed of sound in air is a function of:

- A. Wavelength
- B. Frequency
- C. Temperature
- D. Amplitude

46. A violin plays a melody line and is then joined by a second violin, playing at the same intensity in a repeat of the same melody. Which of the following physical parameter has doubled?

- A. Wavelength
- B. Frequency
- C. Intensity
- D. Time period

47. What should be the length for a simple pendulum having a period of 1 s installed at Ziarat whose altitude is 8000 m and the value of g is  $9.25 \text{ m/s}^2$ ?

- A. 1.0 m
- B. 0.333 m
- C. 0.972 m
- D. 1.102 m
- E. 0.234 m

48. Heat is defined as the transfer of energy across the boundary of system and its surroundings due to:

- A. difference in pressure
- B. difference in temperature
- C. difference in number of molecules
- D. Difference in volume

49. If a body is moving along x-axis and its velocity and acceleration both are negative, what is the state of body at that time?

- A. Both velocity and acceleration can't be negative
- B. Body is slowing down
- C. Body is speeding up
- D. Body could be speeding up only with negative acceleration

## Punjab Online Academy

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- 88 نماز استقامہ کب ادا کی جاتی ہے۔  
 (A) چاند گردن کے وقت (B) مورخ گردن کے وقت (C) ماتحت رنائی کے وقت (D) بارش کی رعایت کے وقت
- 89 قرآن مجید میں سب سے زیادہ ذکر کس شخص کا آیا ہے۔  
 (A) حضرت مسیح (B) حضرت مولیٰ (C) حضرت امام احمد (D) ان میں سے کوئی نہیں
- 90 اسلامی کیلدر کے دوسروں میں کام کیا جاتا ہے۔  
 (A) وحیب (B) عادی الالہی (C) ذیت الدین (D) شوال
- 91 مسٹر فرمودہ کی خاری کے حضرت ابو الحسن صدیق تے اپنے گھر کا سارا سماں حضور کے سامنے پیش کر دیا۔  
 (A) غزوہ حجک (B) غزوہ بدر (C) غزوہ امد (D) غزوہ میٹن
- 92 یہ اشارات کس شخصیت کے متعلق ہیں: سیاکوت، تحشیل قربادی، حرثی پسند محیک، لینن انعامیانہ  
 (A) علام اقبال (B) احمد فراز (C) فیض احمد فیض (D) احمد نجم قاسمی
- 93 اردو کا پہلا ہمیشہ شاعر کے کہا جاتا ہے  
 (A) نصیر ابراری (B) علام اقبال (C) حبیب جاپ (D) الاف حسین حالی
- 94 مشہور دل ریاضت کرد مسٹر کی تصنیف ہے،  
 (A) یادوقدیس (B) جیلہ ہائی (C) الاف قاطمہ (D) قراءۃ احسن حیدر
- 95 مشہور تلمذ طلوع اسلام کے شاعر کون ہے  
 (A) مولانا غفرعلی خان (B) احسان داش (C) علام اقبال (D) حینظ جاندھری
- 96 کس شخصیت نے پنجاب پر شریشی میں مددگری جیت سے کام کیا اور بعد اس کے عنوان مقبرہ ہے؟  
 (A) حینظ جاندھری (B) حبیب جاپ (C) ناصر کاظمی (D) احسان داش
- 97 پچھلے کا کدر اس کی تصنیف ہے۔  
 (A) اشناق احمد (B) سعادت حسن منور (C) اختصار قرآن (D) شفیق الرحمن
- 98 رسالہ "تجنید عباد الخالق" کے بانی کون ہے۔  
 (A) مولانا محمد علی جوہر (B) مولانا غفرعلی خان (C) سریدا احمد خان (D) علام اقبال
- 99 جدید اردو شعر کا بانی کے کہا جاتا ہے۔  
 (A) سریدا احمد خان (B) مولوی عبد الحق (C) سعادت حسن منور (D) ڈی مڈیا احمد
- 100 درج ذیل شعر کس کا ہے  
 ہے جتو کہ خوب سے ہے خوب تر کہاں  
 اب دیکھے نہ تھرتی ہے جا کر نظر کہاں  
 (A) مولانا الالف حسین حالی (B) میرزا غالب (C) میر قیصر (D) علام اقبال

MATH

41. Let  $f$  be the function defined by  $f(x) = \sin(2x-3)$ , then  $f$  is:

- A. Injective
- B. Periodic
- C. Bijective
- D. Surjective

B

42. Any tangent to the curve  $y = 3x^7 + 5x + 3$

- A. Is parallel to x-axis
- B. Is parallel to y-axis
- C. Makes an acute angle with x-axis
- D. Makes an obtuse angle with y-axis

C

43. The value of  $\int \frac{1}{x} dx$  is:

- A.  $e^{-x}$
- B.  $\log |1/x| + C$
- C.  $e^x$
- D.  $\log |x| + C$

D

44. If the center is  $(3, -1)$  and diameter is of length 10, then equation of the circle is

- A.  $(x+3)^2 + (y-1)^2 = 100$
- B.  $(x-3)^2 + (y+1)^2 = 25$
- C.  $(x-3)^2 + (y-1)^2 = 100$
- D.  $(x+3)^2 + (y+1)^2 = 25$

B

45. The vector  $a+3b$  is perpendicular to  $7a-5b$  and  $a-5b$  is perpendicular to  $7a+3b$ . The angle between  $a$  and  $b$  is:

- A.  $\pi/6$
- B.  $\pi/2$
- C.  $\pi/4$
- D.  $\pi/3$

B

Educators JNTU Discussion & Preparation

<https://www.facebook.com/groups/Jntueducators/>  
by Saim Raza

P-16-2304-B-YELLOW-180316

67. Which of the following is subset of  $A = \{10, 20, 30\}$ ?

- A.  $\{10, 30, 50\}$
- B.  $\{10, 20, 30, 40\}$
- C.  $\{10, 20\}$
- D.  $\{20, 30, 40\}$
- E.  $\{10, 30, 40\}$

68. Which of the following is the successor of 625,980?

- A. 625,979
- B. 625,980
- C. 625,981
- D. 625,978
- E. 625,970

69. How many non-collinear points determine a plane?

- A. 5 points
- B. 4 points
- C. 3 points
- D. 2 points
- E. 1 point

70. The profit of Rs. 40,000 at the rate of 3% per year for 4 years is  
Rs:

- A. 5,800
- B. 4,890
- C. 4,850
- D. 4,800
- E. 480

71. Which of the following test items is best suited for measuring performance in expression?

- A. MCQs
- B. Fixed Choice
- C. Essay Type
- D. Short Answer questions
- E. True/false

72. The process of examining student responses to individual test items to assess the quality of those items as a whole is known as

- A. Item difficulty
- B. Item discrimination
- C. Item analysis
- D. Item index
- E. Item scanning

73. The proper action verbs  
Application in cognitive

- A. demonstrate
- B. construct
- C. appreciate
- D. list

74. The concept of structural  
taxonomy was proposed by

- A. Kant
- B. Bloom
- C. Biggs
- D. Skinner

75. In response to a call for  
time. Such sort of tests are called

- A. Choral Response
- B. Idea Spurting
- C. Analogy
- D. Portfolio

## PEDAGOGY

16. Which one of the following is the source of mistakes in educational measurements?

- A. Teacher's educational background
- B. Examination system of the board
- C. Tools used in educational assessment
- D. In-effective teaching methodology

17. When referring to Bloom's taxonomy, remembering refers to:

- A. recognizing and recalling
- B. constructing meaning from different functions
- C. carrying out a procedure
- D. breaking material or concepts into parts

18. Kinesthetic learning style refers to:

- A. hearing and speaking
- B. association with images
- C. first see what they expect to know
- D. students carrying out physical activities

19. Accomplished teacher is the one who:

- A. covers syllabus on time
- B. stays full time during his lesson
- C. maintains discipline in the class
- D. captures and sustains the interest of students

20. The statement "Disciplined questioning is to get the truth of the matter" is given by:

- A. Socrates
- B. Aristotle
- C. Plato
- D. Pythagoras

21. Who is advocate of the Cognitive Theory of teaching?

- A. Benjamin Bloom
- B. McDonald
- C. Rayon
- D. Nathaniel Lees Gage
- E. BF Skinner

52. The normal line to the circle  $x^2 + y^2 = 25$  at (2,3) is:

- A.  $3x - 2y + 1 = 0$
- B.  $3x + 4y + 1 = 0$
- C.  $3x + 2y + 1 = 0$
- D.  $3x + 2y = 0$

C

53. The matrix  $[1 \ 4 \ -7 \ 6]^t$  is a:

- A. Singular matrix
- B. Null matrix
- C. Row matrix
- D. Column matrix

D

54. The value of  $4!0!/0! =$

- A. 12
- B. 60
- C. 24
- D. Undefined

C

55. At time  $t=0$  the inverse Laplace transform of the function  $1/(s+1)(s^2 - 1)$  equals to:

- A. 1
- B. 1/2
- C. 0
- D. 2

C

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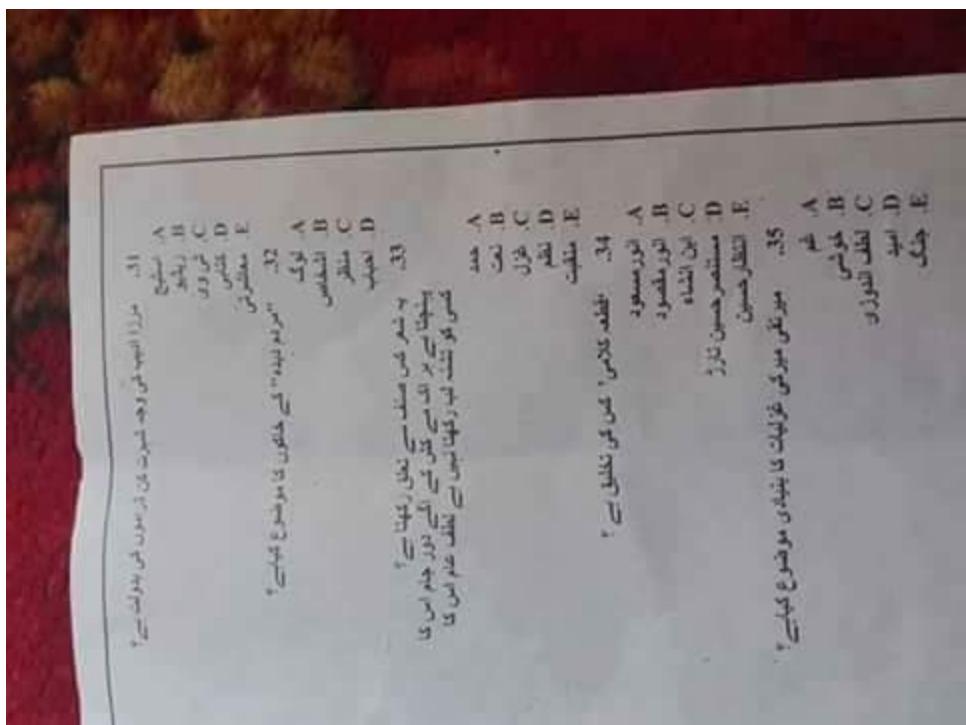
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47."Islam is based on five pillars: to declare that there is no God but Allah and Hazrat Muhammad (SAW) is the Messenger of Allah, to establish prayers, to pay Zakat, to perform the pilgrimage and to fast in Ramazan". It is:

- A. Qur'anic verse
- B. Hadis of the Holy Prophet
- C. Saying of Sahaba
- D. Commonly accepted principle

48.Which was the first battle fought by the Muslims against the Makkans?

- A. Khyber
- B. Tabook
- C. Khandaq
- D. Badr

49.Religiously required per capita yearly tax historically levied by Islamic States on certain non-muslim subjects is known as:

- A. Ushr
- B. Khums
- C. Jizya
- D. Takaful

50.What is the meaning of Bashir?

- A. The messenger of good news
- B. The prophet
- C. The illuminating
- D. The true friend

51.When was the All India Muslim League formed?

- A. 1905
- B. 1906
- C. 1907
- D. 1908
- E. 1909

52.Who was the first Sindh Education Minister?

- A. Pir Illahi Bukhsh
- B. Pir kamal
- C. Pir Paghara
- D. Pir Shah Pyaray
- E. Pir Meher Ali Shah

## SUBJECT TWO

76. The authority to establish a Farogh-e-Taleem Fund for schools has been granted under the \_\_\_\_\_.

- A. Punjab Farogh-e-Taleem Act, 2013
- B. Punjab Free and Compulsory Education Act, 2013
- C. Punjab Free and Compulsory Education Act, 2014
- D. Punjab Education Quality Improvement Act, 2015

77. For how many districts of Punjab was the Non Salary Budget started in the year 2013-14?

- A. Fifteen
- B. Fourteen
- C. Twelve
- D. Ten
- E. Eight

78. Who will maintain, in the prescribed manner, a record of children up to the prescribed age limit residing within its jurisdiction? 4. Psychosis is loss of control.

- A. Head of the school
- B. Local Government
- C. District Education Officer
- D. Provincial Government

79. What are the two distinct parts of a file?

- A. Comments part and correspondence part
- B. Correspondence part and observations part
- C. Critical part and non-critical part
- D. Correspondence part and noting part

80. Which one of the following processes is excluded from the most correct definition of record keeping in a school or office?

- A. Receiving
- B. Commenting
- C. Classifying
- D. Preserving

According to the instruction for the year 2014-15 Non Salary Budget, which one of the followings comes under the heading 'Fixed' for the purpose of allocation of Non Salary Budget?

- A. Photocopying and printing
- B. Electricity, minor repair
- C. Computer and other requirements
- D. Learning material

53. With which one of the following will you associate Balochistan?

- A. Baluchistan
- B. KPK
- C. Sind
- D. Punjab
- E. Gilgit Baltistan

54. Pakistan's "Five years Plan" started with the help of \_\_\_\_\_

- A. USA
- B. UK
- C. Canada
- D. Saudi Arabia
- E. Sudan

55. The need for a greater international understanding is more today than ever because of the issue of \_\_\_\_\_ in the recent past

- A. floods
- B. wars
- C. diseases
- D. terrorism
- E. Illiteracy

**URDU**

31. ایسے ہروف جو کسی ہرف سے پہلے اس ، مگر اس سے الگ رہیں ائمے ————— کتے ہیں

- A. اکیس ہروف
- B. شزارتی ہروف
- C. مطابق ہروف
- D. سوبھی ہروف

32. دادا جان نے اخبار پڑھا —————

- A. لیا سے
- B. اسی سے
- C. لیو بیو
- D. رہا سے

33. تجربہ کی جمع ہے:

- A. تجربے
- B. تجابر
- C. تجربات
- D. تخار

34. بچہڑا کی موٹت کیلے ————— کا لفظ استعمال ہوتا ہے۔

- A. بچہرا
- B. بچیا
- C. بلانگڑا
- D. بلوٹا

35. بیٹت مذکور استعمال ہوتا ہے۔

- A. چھپھوندر
- B. بچھو
- C. بچبیا
- D. بلدریا

182-C-WHITE-091016

36 اردو نثر کی ایسی صفت ، جن میں نکھاری گاؤں گاؤں ، شیر شیر  
کے انکھوں دیکھئے حالاں بین کرنا ہے۔

- A اپورتھ
- B الٹہ
- C سفرنامہ
- D سرگزشت

37 چرانا ، اصل محاورہ ہے۔

- A دل
- B جس
- C کان
- D زبان

38 جراغ سے جلتا ہے۔

- A بنتہ
- B کاغذ
- C جراغ
- D مکان

39 "پاکستان" گرامر کی رو سے اسم ہے۔

- A نکرہ
- B معرف
- C عام
- D صفت

40 وزیر اعظم نے حلف اٹھا ہے۔

- A لیا
- B لس
- C دیا
- D لین

P-16-2382-C-WHITE-091016

41. محاورہ "اشاروں میں توجہ" کا مطلب ہے۔

- A. اشارہ ملنے پر کسی یا ناجنا
- B. کسی کے اشاروں کے ساتھ ملکہ ناجنا
- C. اشاروں کا مطلب سمجھنے بغیر ناجنا
- D. کسی کو اپنے مقاصد کیلئے استعمال کرنا

42. ایجاد کے لفظی معنی ہے۔

- A. کم شدہ چیز ڈھونٹنا
- B. ڈھکی بوس چیز سے کپڑا بنانا
- C. کوئی نہیں چیز بنانا
- D. زمین میں گڑھی بوسی چیز کو تلاش کر لینا

43. ان میں سے کونسا لفظ الفت کا مترادف نہیں ہے؟

- A. محبت
- B. مرود
- C. حب
- D. وسعت

44. مناسب لفظ لگا کر جوڑا مکمل کریں۔

جوش و

- A. خروش
- B. خراش
- C. جبان
- D. جمال

45. صفت کی جمع ہے:

- A. اوصاف
- B. صفات
- C. صفات
- D. اصف
- E. صفحات

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41. محاورہ "اشاروں ہدائق" کا مطلب ہے۔

- A. اشارہ ملیئے پر کسی یا ناجنا
- B. کسی کے اشاروں کے ساتھ ملائے لاجنا
- C. اشاروں کا مطلب سمجھے بغیر ناجنا
- D. کسی کو اپنے مقاصد کیلئے استعمال کرنا

42. ایجاد کے لفظی معنی ہے۔

- A. گم شدہ چیز ڈھونٹنا
- B. ڈھکی بونی چیز سے کپڑا بنانا
- C. کونسی نئی چیز بنانا
- D. زمین میں گڑھی بونی چیز کو تلاش کر لینا

43. ان میں سے کونسا لفظ الفت کا مترادف نہیں ہے؟

- A. محبت
- B. مرود
- C. حب
- D. وسعت

44. مناسب لفظ لگا کر جوڑا مکمل کریں۔

جوش و

- A. خروش
- B. خراش
- C. جبان
- D. جمال

45. صفت کی جمع ہے:

- A. اوصاف
- B. صفات
- C. صفات
- D. اصف
- E. صفحات

HITE-091016

46. چائد کا مترادف لفظ ہے:

- A. افتتاب
- B. مانتاب
- C. فلک
- D. نجوم

47. نعت امن تبی کی، جس نے پیغام حق سنایا

انسانیت کا رستہ انسان کو دکھایا

امن شعر میں "سنایا" اور "دکھایا" — الفاظ بین۔

- A. منتصد
- B. بم قافیہ
- C. مترادف
- D. تدبیحاتی

48. دیباتی کھلے کھروں میں رہتے ہیں — شبروں میں ہے

ہر لوگوں کے کھر تک بوئے ہیں۔

- A. کیونکہ
- B. لہذا
- C. ورنہ
- D. جبکہ
- E. تک

49. حشرات الارض سے مراد ہے:

- A. جاتور چوپائے
- B. چرندپرندے
- C. درندے پرندے
- D. کیڑے مکوڑے

50. خواب کا منتصد ہے:

- A. نہد
- B. حقیقت
- C. تخیل
- D. تخلق

29. The very first country in Europe where the Renaissance movement started is

- A. France
- B. Italy
- C. Germany
- D. England

30. Culture and Anarchy is written by:

- A. Mathew Arnold
- B. P.B Shelley
- C. Walter Pater
- D. E.E Cummings

31. The pioneer of the concept of imitation in criticism is:

- A. Aristotle
- B. Socrates
- C. Plato
- D. Sophocles

32. Who said in conformity to Robert Frost that poetry leads from delight to wisdom not from wisdom to delight?

- A. William Blake
- B. Ted Hughes
- C. Elizabeth Sewell
- D. Seamus Heaney

33. "So much depends

Upon  
A red wheel  
Barrow  
Glazed with rain  
Water"

The above poem is an example of which of the following poetic form?

- A. Villanelle
- B. Limerick
- C. Eclogue
- D. Haiku

34. "If you prick us, do we not bleed? If you tickle us, do we not laugh? If you poison us, do we not die? And if you wrong us, shall we not revenge?" the preceding lines by Shakespeare reminds us about the character:

- A. Othello
- B. Iago
- C. Shylock
- D. Hamlet

16-2382-C-PINK-091016

23. A specific type of writing in which the settings, characters, and events stand for other specific people, events, or ideas is known as:

- A. Allegory
- B. Anadiplosis
- C. Anacrusis
- D. Aisling

24. A figure of speech in which the speaker addresses an object, concept, or person (usually absent) that is unable to respond is known as:

- A. Arcadia
- B. Apostrophe
- C. Argument
- D. Apron stage

25. Jonathan Swift is known for \_\_\_\_\_ in Gulliver's Travels.

- A. Lucidity
- B. Satire
- C. Humor
- D. Morality

26. The 18th century is also known as the

- A. Age of Reformation
- B. Age of Enlightenment
- C. Dark Ages
- D. Puritan age

27. Wide Sargasso Sea is a post-colonial re-writing of which novel?

- A. Pride and Prejudice
- B. Jane Eyre
- C. Vanity Fair
- D. Brave New World

28. Emily Bronte wrote just one novel in her life, which is named

- A. Wuthering Heights
- B. Shadows of the Crescent moon
- C. Jane Eyre
- D. Mill on the Floss

## ENGLISH

Complete the sentences by choosing the most appropriate option, from the given lettered choices (A to D/E) below each.

41. He is very proud \_\_\_\_\_ his car.

- A. on
- B. of
- C. at
- D. about
- E. for

42. We should have \_\_\_\_\_ trouble ahead when the road \_\_\_\_\_ into a gravel path.

- A. interrogated ... shrank
- B. anticipated ... dwindled
- C. expected ... grew
- D. enjoyed ... transformed
- E. seen ... collapsed

43. If it \_\_\_\_\_ rain, we'll have the party outside.

- A. wouldn't
- B. doesn't
- C. didn't
- D. won't

44. I wonder \_\_\_\_\_ on sale.

- A. how much cost these shoes
- B. how much do these shoes cost
- C. how much these shoes cost
- D. how much are these shoes cost

45. Tania has decided \_\_\_\_\_ her computer.

- A. sell
- B. to sell
- C. sold
- D. to selling

5-16-2382-C-PINK-091016

35. Tennessee Williams and Arthur Miller won real acclaim after:

- A. American Civil War
- B. Battle of Waterloo
- C. World War I
- D. World War II

36. Which of the following has written the biography of Florence Nightingale in his Eminent Victorians?

- A. Lytton Strachey
- B. Jonathan Swift
- C. Francis Bacon
- D. Paul Scott

37. Who has written "New Atlantis"?

- A. Bertrand Russell
- B. Jonathan Swift
- C. Francis Bacon
- D. Lytton Strachey

38. Who has written the short story, The Three Strangers?

- A. Alfred Tennyson
- B. Ernest Hemingway
- C. Thomas Hardy
- D. V. S Nalpur

39. Who has written the short story, The Duchess and the Jeweler?

- A. Brian Friel
- B. Anton Chekhov
- C. Hanif Kureishi
- D. Virginia Woolf

40. Which of the following novel of Charles Dickens was left unfinished owing to his death?

- A. The Goblins
- B. Pickwick Papers
- C. Mystery of Edwin Drood
- D. David Copperfield

P-16-2382-C-PINK-091016

3. This passage supports which of the following conclusions?
- A. Commitments made in private are more likely to fail.
  - B. Disapproval for failure makes people less willing to make public commitments.
  - C. Intentions announced out loud are more effective than those published in newspapers.
  - D. Well-informed people are more likely to publicly declare their intentions.

Complete the sentences by choosing the most appropriate option, from the given choices (A to D/E) below each.

4. As genetic research and data grow in respect and amount, the question of \_\_\_\_\_ vs. environment, or nature vs. \_\_\_\_\_ painfully resolving itself, with the geneticists currently in command.

- A. genes ... culture
- B. personality ... modernity
- C. upbringing ... civilization
- D. heredity ... nurture
- E. family ... community

5. Furniture designed by Sara has clean, simple lines; it lacks the \_\_\_\_\_ embellishments found in some other styles.

- A. severe
- B. ornate
- C. untoward
- D. unadorned
- E. understand

6. If the consultant \_\_\_\_\_ that we should hire more staff, Ali wouldn't be working here now.

- A. should not recommend
- B. doesn't recommend
- C. hadn't recommended
- D. wasn't recommend

Five options (A to E) follow a related pair of words given in capitals. Select the option that best expresses a relationship similar to that expressed in the original pair.

7. INTRANSIGENT : FLEXIBILITY::

- A. transient : mobility
- B. disinterested : partisanship
- C. dissimilar : variation
- D. progressive : transition
- E. ineluctable : modality

EXHIBITIONIST: ATTENTIVENESS

- A. sycophant: turncoat
- B. scientist: power
- C. megalomaniac: anonymous
- D. martyr: anonymous
- E. mercenary: traitor

ANARCHY: ORDER::

- A. desolation: order
- B. ineptitude: skill
- C. bastion: authority
- D. chaos: discipline
- E. parsimony: extravagance

Change the voice

10. Ali put his coat on

- A. His coat on
- B. His coat on
- C. His coat on
- D. His coat on
- E. His coat on

11. Unless the sale

- A. The stars
- B. The stars
- C. The stars
- D. The stars
- E. The stars

## ISLAMIYAT / SOCIAL STUDIES

41. Under the constitution of 1973 of Pakistan, the prime function of Islamic Ideological Council is to \_\_\_\_\_ steps for Islamization of State and Society in Pakistan.

- A. recommend
- B. instruct
- C. order
- D. request
- E. advise

42. Lofty snow covered mountains lie between Pakistan and China, among them Karakoram Highway links the two countries via the \_\_\_\_\_ pass.

- A. Khunjerab
- B. Tochi
- C. Bolan
- D. Khyber

43. Which of the following parties emerged as single majority Political Party after 1970 general election in West Pakistan?

- A. Muslim League
- B. Jamat-i-Islami
- C. Pakistan Peoples Party
- D. National Awami Party

44. The birth year of Hazrat Muhammad (SAW) is called \_\_\_\_\_.

- A. Am ul Hazoor
- B. Am ul Feel
- C. Am ul Ka'aba
- D. Am ul Makkah

45. "Bait-e-Rizwan" was made to take the revenge of:

- A. Hazrat Hamzah (RA)
- B. Hazrat Usman (RA)
- C. Hazrat Ali (RA)
- D. Hazrat Umar (RA)

46. What do you understand by "Al-Fay"?

- A. Land cultivated by Muslims
- B. Land cultivated by Non-Muslims
- C. Conquered land by Muslims which became the property of Islamic state
- D. Hills etc.

لفظ "ایمام" سے کیا مراد ہے؟ .36

- .A. وسوسہ
- .B. فریب
- .C. دین
- .D. جادو
- .E. امید

کس شاعر نے شعر اسے بند کی شاعری کا رخ فارسی سے اردو طرف مورا؟ .37

- .A. میرحسن
- .B. ذوق
- .C. غالب
- .D. درد
- .E. خان آرزو

کس کلاسیکی غزل کو کی غزل "واہ" کی علامت ہے؟ .38

- .A. نصرتی
- .B. ولی
- .C. نشاطی
- .D. سودا
- .E. مظہر جان جان

اس شعر میں علم بیان کی کون سی خوبی ہے۔ .39  
شمع کی مانند ہم اس بزم میں  
چشم نم آئیے دامن تر چلے

- .A. کنایہ
- .B. مجاز مرسل
- .C. استعارہ
- .D. تشبيہ
- .E. تصریح

جرات کی مثنوی "بحر الفت" کا موضوع کیا ہے؟ .40

- .A. عشق
- .B. تصوف
- .C. بحر
- .D. شعایت زمانہ

ISL  
41.Under the const  
Islamic Ideolog  
Islamization of

- .A. recognit
- .B. instruc
- .C. order
- .D. require
- .E. advan

42.Lofty snow c  
among them  
pass

- .A. Kha
- .B. To
- .C. Ba
- .D. Ke

43.Which of t  
Party after

- .A.
- .B.
- .C.
- .D.

44.The birth

- .A.
- .B.
- .C.
- .D.

45."Bait-e-

- .A.
- .B.
- .C.
- .D.

46.What

- .A.
- .B.
- .C.
- .D.

## ENGLISH

Questions 1-3 are based on the following passage.

Psychologists have found that privately made resolutions are rarely followed, whereas a public commitment to achieve some goal, such as losing weight or giving up smoking, is likely to be much more effective. This is because the approval of others for reaching one's target is valued. In contrast, disapproval for failure can lead to feelings of shame.

Advertising agencies have designed studies hearing out the truth of this observation. In their research, a group of strangers was bombarded with information about the qualities of a particular product. They were then asked to either announce out loud or write down privately whether they intended to buy the product. It was later discovered that those who publicly declared their intention to buy were considerably more likely to do so than those who affirmed their intentions in private.

In another study, an experimenter claiming to represent a local utility company interviewed homeowners, telling them he was investigating ways in which energy consumption could be reduced. Half the subjects, randomly selected, were told that if they agreed to conserve energy, their names would be mentioned in an article published in the local newspaper; the remaining half were told their names would not be used. All those interviewed agreed to cooperate and signed a form either giving consent for their names to be used or stating that their names would not be used. Later in the year, the amount of gas consumed in each house was recorded. The owners who had agreed to their names being published had used significantly less gas than those who remained anonymous.

It can be inferred that all of the following help motivate a person to achieve a goal EXCEPT:

- A. a desire for approval
- B. a fear of disapproval
- C. a fear of failure
- D. a sense of noncommitment

Why were advertising agencies probably interested in conducting their study?

- A. They want to introduce their people to more products.
- B. They wanted to demonstrate the quality of their clients' product.
- C. They wanted to know if people intended to purchase their clients' products.
- D. They wanted to find the best way to get people to buy their clients' products.

6-2304-AC-DINK-180316

**8. The process in the ecosystem which is a response to excess nutrients stimulating excessive plant growth is called:**

- A. Decentralization
- B. Eutrophication
- C. Bioaccumulation
- D. Purification
- E. Anaerobic respiration

**9. An environmental protocol is a sort of international law, inter as legally binding with a primary stated purpose of preventing managing human impacts on:**

- A. Industrial growth
- B. Global Economic growth
- C. Strategic relations
- D. Natural resources

**10. Which of the following is NOT a prime aim of international protocols for environment?**

- A. Reduction of emission of four Green House Gases
- B. Resolving the environmental issues
- C. Encouraging the utilization of fossil fuels
- D. Controlling environmental Pollution

31. مرزا ادیب کی وجہ شہرت کن ڈراموں کی بدولت ہے؟

- A. استیج
- B. ریڈیو
- C. ٹی وی
- D. کتابی
- E. معاشرتی

32. "مردم دیدہ" کے خالکوں کا موضوع کیا ہے؟

- A. لوگ
- B. اشخاص
- C. منظر
- D. احباب

33. یہ شعر کس صنف سے تعلق رکھتا ہے؟

پینچتا ہے بر اک میے کش کے آگے دور جام اس کا  
کسی کو تشنہ لب رکھتا نہیں ہے لطف عام اس کا

- A. حمد
- B. نعت
- C. غزل
- D. نظم
- E. منقبت

34. "قطعہ کلامی" کس کی تخلیق ہے؟

- A. انور مسعود
- B. انور مقصود
- C. ابن انشاء
- D. مستنصر حسین تاری
- E. التظار حسین

35. میر تقی میر کی غزلیات کا بنیادی موضوع کیا ہے؟

- A. غم
- B. خوشی
- C. لطف الدوزی
- D. امید
- E. جنگ

31. مرزا ادیب کی وجہ شہرت کن ڈراموں کی بدولت ہے؟

- A. استیج
- B. ریڈیو
- C. ٹی وی
- D. کتابی
- E. معاشرتی

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پینچتا ہے بر اک میے کش کے آگے دور جام اس کا  
کسی کو تشنہ لب رکھتا نہیں ہے لطف عام اس کا

- A. حمد
- B. نعت
- C. غزل
- D. نظم
- E. منقبت

34. "قطعہ کلامی" کس کی تخلیق ہے؟

- A. انور مسعود
- B. انور مقصود
- C. ابن انشاء
- D. مستنصر حسین تاری
- E. التظار حسین

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- B. خوشی
- C. لطف الدوزی
- D. امید
- E. جنگ

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- B. UK
- C. Canada
- D. Saudi Arabia
- E. Sudan

55. The need for a greater international understanding is more today than ever because of the issue of \_\_\_\_\_ in the recent past

- A. floods
- B. wars
- C. diseases
- D. terrorism
- E. Illiteracy

## SUBJECT TWO

76. The authority to establish a Farogh-e-Taleem Fund for schools has been granted under the \_\_\_\_\_.

- A. Punjab Farogh-e-Taleem Act, 2013
- B. Punjab Free and Compulsory Education Act, 2013
- C. Punjab Free and Compulsory Education Act, 2014
- D. Punjab Education Quality Improvement Act, 2015

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- A. Comments part and correspondence part
- B. Correspondence part and observations part
- C. Critical part and non-critical part
- D. Correspondence part and noting part

80. Which one of the following processes is excluded from the most correct definition of record keeping in a school or office?

- A. Receiving
- B. Commenting
- C. Classifying
- D. Preserving

According to the instruction for the year 2014-15 Non Salary Budget, which one of the followings comes under the heading 'Fixed' for the purpose of allocation of Non Salary Budget?

- A. Photocopying and printing
- B. Electricity, minor repair
- C. Computer and other requirements
- D. Learning material

47."Islam is based on five pillars: to declare that there is no God but Allah and Hazrat Muhammad (SAW) is the Messenger of Allah, to establish prayers, to pay Zakat, to perform the pilgrimage and to fast in Ramazan". It is:

- A. Qur'anic verse
- B. Hadis of the Holy Prophet
- C. Saying of Sahaba
- D. Commonly accepted principle

48.Which was the first battle fought by the Muslims against the Makkans?

- A. Khyber
- B. Tabook
- C. Khandaq
- D. Badr

49.Religiously required per capita yearly tax historically levied by Islamic States on certain non-muslim subjects is known as:

- A. Ushr
- B. Khums
- C. Jizya
- D. Takaful

50.What is the meaning of Bashir?

- A. The messenger of good news
- B. The prophet
- C. The illuminating
- D. The true friend

51.When was the All India Muslim League formed?

- A. 1905
- B. 1906
- C. 1907
- D. 1908
- E. 1909

52.Who was the first Sindh Education Minister?

- A. Pir Illahi Bukhsh
- B. Pir kamal
- C. Pir Paghara
- D. Pir Shah Pyaray
- E. Pir Meher Ali Shah

31. موزا ادیب کی رجہ شہرت میں تراویں کی بدولت ہے۔

- A. استیج
- B. بیٹھج
- C. شی
- D. کیسی
- E. معاشر

32. "مردم بند" اکے دنکون کا موضوع کیا ہے؟

- A. لوگ
- B. اشخاص
- C. منظر
- D. احباب

33. یہ شعر کس صنف سے ناطق رکھتا ہے؟

بیٹھتا ہے اک سیکھ سے اکے دوز جام اس کا  
کسی کو نہیں لپڑ کھانا نہیں سے لطف علم اس کا

- A. حد
- B. نعت
- C. خزل
- D. قصیدہ
- E. منقبہ

34. نقطہ کلامی کس کی تخلیق سے ہے؟

- A. انور مسعود
- B. انور مسعود
- C. ابن انساء
- D. مستنصر حسین تاریخ
- E. المظار حسین

35. میرنگی میرنگی غربیات کا بنیادی موضوع کیا ہے؟

- A. خشم
- B. خوشی
- C. لطف اندوزی
- D. امداد
- E. جنگ

## URDU

31. ایسے حروف جو کسی حرف سے پہلے آئیں ، مگر ان سے الگ رہیں اٹھیں۔

- A. اکٹی حروف
- B. میڑاٹی حروف
- C. سیٹاٹی حروف
- D. نیٹی حروف

32. دادا جان نے اخبار پر

- A. لیا سے
- B. لیے
- C. لیں بیں
- D. ریا سے

33. تجربہ کی جمع ہے:

- A. تجراۓ
- B. تجاہر
- C. تجریبات
- D. تجار

34. بچہڑا کی موٹت کیلئے — کا لفظ استعمال ہوتا ہے۔

- A. بچیرا
- B. بچبا
- C. بلا نگڑا
- D. بلوتا

35. بیٹھ مذکر استعمال ہوتا ہے۔

- A. چمچووندر
- B. بجهو
- C. بچھیا
- D. بندریا

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36. اردو نثر کی ایسی صنف ، جن میں لکھاری گاؤں ، شیر شہر  
کے انکھوں دیکھئے حالات بیان کرتا ہے۔

- A. اپورٹر
- B. افسانہ
- C. سفرنامہ
- D. سرگزشت

37. چرانا ، اصل محاورہ ہے۔

- A. دل
- B. جی
- C. کان
- D. زبان

38. جراغ سے جلتا ہے۔

- A. باتھ
- B. کاغذ
- C. جراغ
- D. مکان

39. "پاکستان" گرانظر کی رو سے اسم ہے۔

- A. نکرہ
- B. معرفہ
- C. عام
- D. صفت

40. وزیر اعظم سے حلف اٹھا ہے۔

- A. لیا
- B. لی
- C. دیا
- D. لین

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46. جاند کا مترادف لفظ ہے:

- A. آفتاب
- B. مابتاب
- C. فلک
- D. نجوم

47. نعت امن نبی کی، جس نے پیغام حق سنایا

انسانیت کا رستہ انسان کو دکھایا  
اس شعر میں "سنایا" اور "دکھایا" — الفاظ بین۔

- A. متضاد
- B. بم قافیہ
- C. مترادف
- D. تلمیحاتی

48. دیباتی کھلے کھروں میں ربے بیں — شبروں میں ے  
پر لوگوں کے کھر تنگ بوئے بیں۔

- A. کیونکہ
- B. لہذا
- C. ورنہ
- D. جبکہ
- E. تاکہ

49. حشرات الارض سے مراد — بیں۔

- A. جاتور چوبائے
- B. چرنڈپرند
- C. درندے پرندے
- D. کیرے مکوڑے

50. خواب کا متنضاد ہے:

- A. نیند
- B. حقیقت
- C. تخیل
- D. تخلیق

41. محاورہ "اشاروں پر نجات" کا مطلب ہے۔

- A. اشارہ ملنے پر کسی کا ناجنا
- B. کسی کے اشاروں کے ساتھ ساتھ ناجنا
- C. اشاروں کا مطلب سمجھے بغیر ناجنا
- D. کسی کو اپنے مقاصد کیلئے استعمال کرنا

42. ایجاد کے لغوی معنی ہے۔

- A. گمشده چیز ڈھونڈنا
- B. ڈھکی بونی چیز سے کپڑا بنانا
- C. کونی نئی چیز بنانا
- D. زمین میں گڑھی بونی چیز کو تلاش کر لینا

43. ان میں سے کونسا لفظ الفت کا مترادف نہیں ہے؟

- A. محبت
- B. مروت
- C. حب
- D. وسعت

44. مناسب لفظ لگا کر جوڑا مکمل کریں۔

جوش و

- A. خروش
- B. خراش
- C. جہان
- D. جمال

45. صاف کی جمع ہے:

- A. اوصاف
- B. صفتیں
- C. صفات
- D. اضاف
- E. صفحات

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## MATH

1. What is the place value of '7' in number 75234?
  - A. Ones
  - B. Tens
  - C. Hundreds
  - D. Thousands
  - E. Tens thousands
2. There are 565 male voters and 335 female voters in a village.  
What is the percentage of male voters in the village?
  - A. 66.5
  - B. 33.5
  - C. 50.5
  - D. 45.5
3. A room is 8 meters long and 6 meters wide. The floor of the room  
is to be paved with square tiles. What should be the maximum  
length of the tile to be used?
  - A. 1m
  - B. 2m
  - C. 4m
  - D. 6m
  - E. 8m
4. Find the least number so that when it is divided by 10, 12, 16 and  
18 leaves zero as remainder?
  - A. 520
  - B. 620
  - C. 720
  - D. 820
5. If  $\frac{5}{2}$  of the work is completed in 15 days. How much work will be  
done in one day?
  - A.  $\frac{75}{2}$
  - B.  $\frac{1}{6}$
  - C.  $\frac{2}{75}$
  - D.  $\frac{6}{75}$

P-16-2382-A 1-PINK-091016

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  - C.  $\frac{2}{75}$
  - D.  $\frac{6}{75}$

P-16-2382-A 1-PINK-091016

27. Those magnets which can lose their magnetic ability easily are known as:

- A. Natural magnets
- B. Artificial magnets
- C. Temporary magnets
- D. Both B and C

28. The distance covered in a given time is known as:

- A. Force
- B. Displacement
- C. Speed of an object
- D. Power

29. If we strike an object with less force, \_\_\_\_\_ will be produced.

- A. High sound
- B. Low sound
- C. Medium sound
- D. No sound

30. The earth takes 365.25 days to make one revolution around the sun, this period is known as:

- A. Leap year
- B. One year
- C. Revolution year
- D. Mid year

## MATH/COMPUTER SCIENCE

6. The main unit of computer is:

- A. CPU
- B. Input Unit
- C. Memory Unit
- D. Output Unit

7. The device which provides display to computer users, is:

- A. CPU
- B. Mouse
- C. Memory Unit
- D. Monitor

8. The place where deleted files are stored in computer is:

- A. Recycle Bin
- B. Sizing buttons
- C. Start button
- D. Taskbar

9. Which one is an email address?

- A. <http://vianet.com/index.htm>
- B. D:\\Email\\Standard
- C. joesmart@billme.com
- D. Chaminade.org/teachers/mailaddresses

10. How many characters can be typed in a single cell in Excel?

- A. 256
- B. 1024
- C. 32,000
- D. 65,535

11. Getting data from a cell located in a different Excel Sheet is called:

- A. Accessing
- B. Referencing
- C. Updating
- D. Functioning

P-16-2382-Q-BLUE-091016

24. Nazim has Rs 120. He spends 25% of the amount. How much money is left with him?

- A. 70 rupees
- B. 60 rupees
- C. 80 rupees
- D. 90 rupees

25. The length and breadth of a rectangular field is "b cm" and "a cm" respectively. If Robina makes a round around it, find the distance covered by her.

- A.  $(2b + 2a)$  cm
- B.  $(b + a)$  cm
- C.  $(3b + 2a)$  cm
- D.  $(2b + 3a)$  cm

26. Simplify  $9^8 \div 3^8$ :

- A.  $3^2$
- B.  $9^8$
- C.  $3^8$
- D.  $4^8$

27. Factorize  $49x^2 - 81y^2$ :

- A.  $(7x - 9y)(7x + 9y)$
- B.  $(8x - 7y)(7x + 9y)$
- C.  $(7x - 9y)(8x + 7y)$
- D.  $(7x - 8y)(9x + 9y)$

28. After 32 years from now, a boy will be 5 times as old as he was 8 years back. How old is the boy now?

- A. 16 years old
- B. 18 years old
- C. 20 years old
- D. 22 years old

29. Factorization of  $2ax + bx + 6ay + 3by$  yields:

- A.  $(2b + a)(x + 3y)$
- B.  $(2a + b)(3x + y)$
- C.  $(2a + b)(x + 3y)$
- D.  $(a + 2b)(x + 3y)$
- E.  $2(a + b)(x + y)$

P-16-2382-Q-BLUE-091016

42. \_\_\_\_\_ is the packing of a data into single component.

- A. Inheritance
- B. Polymorphism
- C. Encapsulation
- D. Classes
- E. Functions

43. Why we prefer switches over hubs?

- A. Do not broadcast
- B. Create separate collision domains on each port
- C. Operates at layer 1
- D. Operates at layer 7
- E. A switch uses less electric power than a hub

44. Which of the following field plays an important role in TCP segment but is not required in UDP segment?

- A. Source Port
- B. Destination Port
- C. Data
- D. Window Size
- E. Checksum

45. Which of the following is not a TCP congestion-control scheme?

- A. Additive Increase
- B. Multiplicative Decrease Control
- C. Slow Start Method
- D. Fast Start Method
- E. Fast Retransmit Method

46. What is incorrect about Dynamic Routing Protocols?

- A. Dynamically share information between routers
- B. Automatically update routing table when topology changes
- C. Does not scale well in large networks
- D. Determine best path to a destination
- E. Maintaining up-to-date routing information

47. Connectionless and connection-oriented are most common types of \_\_\_\_\_ Networks.

- A. Cell-Switched
- B. Packet-Switched
- C. Circuit-Switched
- D. Asynchronous Transfer Mode
- E. Conventional Telephone

P-16-2382-Q-BLUE-091016

48.What is an informal series of reports about the computer communication protocols, including TCP/IP and other Internet architectures, wireless and mobile networks, and their history?

- A. Reply for Comments (RFCs)
- B. Revision for Comments (RFCs)
- C. Requests for Comments (RFCs)
- D. Revision for Computer Technologies (RFCs)
- E. Request for Corrections (RFCs)

49.A binary tree in which every non-leaf node has non-empty left and right sub-trees is called a strictly binary tree. Such a tree with 4 leaf nodes:

- A. Has exactly 10 total nodes
- B. Can not have more than 5 nodes
- C. Has exactly 7 total nodes
- D. Must have more than 20 nodes

50.Which of the following traversal techniques lists the node of a binary search tree in ascending order?

- A. Post-order
- B. Pre-order
- C. In-order
- D. Out-order

51.Identify the order of an algorithm from the following that finds whether a given Boolean function of 'n' variables produce a 1?

- A. Constant order
- B. Linear order
- C. Exponential order
- D. Logarithmic order

52.Identify from the following the number of possible binary trees with 3 nodes which when traversed in post-order give the sequence X, Y, Z .

- A. 5
- B. 7
- C. 9
- D. 3

53.Which of the following is an example of volatile memory?

- A. RAM
- B. ROM
- C. PROM
- D. HARD DISK

P-16-2382-Q-BLUE-091016

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P-16-2382-Q-BLUE-091016

44. It is possible to cancel earth's magnetic field by running an enormous current loop around the globe. Which way the current should be directed?

- A. East to west
- B. West to east
- C. North to south
- D. South to north

45. The speed of sound in air is a function of:

- A. Wavelength
- B. Frequency
- C. Temperature
- D. Amplitude

46. A violin plays a melody line and is then joined by a second violin, playing at the same intensity in a repeat of the same melody. Which of the following physical parameter has doubled?

- A. Wavelength
- B. Frequency
- C. Intensity
- D. Time period

47. What should be the length for a simple pendulum having a period of 1 s installed at Ziarat whose altitude is 8000 m and the value of g is  $9.25 \text{ m/s}^2$ ?

- A. 1.0 m
- B. 0.333 m
- C. 0.972 m
- D. 1.102 m
- E. 0.234 m

48. Heat is defined as the transfer of energy across the boundary of system and its surroundings due to:

- A. difference in pressure
- B. difference in temperature
- C. difference in number of molecules
- D. Difference in volume

49. If a body is moving along x-axis and its velocity and acceleration both are negative, what is the state of body at that time?

- A. Both velocity and acceleration can't be negative
- B. Body is slowing down
- C. Body is speeding up
- D. Body could be speeding up only with negative acceleration

**17. The first objective of teaching English is to develop:**

- A. Listening skill
- B. Speaking skill
- C. Reading skill
- D. Writing skill
- E. Comprehension skill

**18. Traditionally the teachers were regarded as responsible for passing \_\_\_\_\_ to the next generation.**

- A. Culture
- B. Knowledge
- C. Rules
- D. Customs
- E. Skills

**19. Which one of the following is at the lowest level with reference to curriculum?**

- A. Mission
- B. Vision
- C. Aims
- D. Goals

**20. To ensure that student growth is at the center of instruction is the purpose of:**

- A. Evaluation
- B. Development
- C. Measurement
- D. Planning

P-16-2382-A 1-GREEN-091016

## PEDAGOGY

11. The teachers' emphasis on thinking rather than behavior and active learning rather than passive are examples of:

- A. Behaviorism
- B. Neo-behaviorism
- C. Social learning
- D. Information processing

12. The quality possessed by the individual to adapt rapidly to the situation can be best related to:

- A. Intelligence
- B. Creativity
- C. Aptitude
- D. Attitude

13. Education is a process of bringing desirable change into:

- A. Behavior
- B. Conduct
- C. Character
- D. Social action

14. The first consideration of planning a teaching session is:

- A. Teaching material
- B. Concerning outcomes
- C. AV aids
- D. Assessment tools

15. The best objective of asking questions in the class is to:

- A. Keep students busy
- B. Maintain discipline
- C. Seek student's attention
- D. Startle the students
- E. Show his/her knowledge

16. Evaluation is related to:

- A. Cognitive domain
- B. Affective domain
- C. Psychomotor domain
- D. Integrated domain
- E. Mechanical domain

2-16-2382-A 1-GREEN-091016

60. A real valued function  $H$  of two real variables  $x$  and  $y$  having continuous partial derivatives of the first and second order and satisfying Laplace equation is \_\_\_\_\_.

- A. Harmonic function
- B. Entire function
- C. Analytic function
- D. Laplace function

61. The harmonic conjugate of the function  $u(x, y) = y^3 - 3x^2y$  is:

- A.  $v(x, y) = -3xy^2 + x^3 + C$
- B.  $v(x, y) = 2x - x^2y + C$
- C.  $v(x, y) = -xy + \frac{x^2}{3} + C$
- D.  $v(x, y) = -4x^2y^3 - 2x^2 + C$
- E.  $v(x, y) = -3x + x^3y + C$

62. Which one of the following functions holds the reflection principle?

- A.  $f(z) = z + i$
- B.  $f(z) = z + i^3$
- C.  $f(z) = z + 1$
- D.  $f(z) = iz^2$
- E.  $f(z) = z - i$

63.  $(1 - i)^4$  when reduced to real number gives:

- A. 2
- B. -2
- C. 4
- D. -4
- E. -7

51. The length of the edges of a rectangular parallelepiped formed by planes drawn through the points (1,2,3) and (4,7,6) are:

- A. 3,5,3
- B. 3,4,5
- C. 3,4,3
- D. 5,3,3

52. What is the value of  $c$  so that the given function becomes a

$$\text{density function } f(x) = \begin{cases} cx^2 & 0 < x < 3 \\ 0 & \text{otherwise} \end{cases}$$

- A. 1/3
- B. 1/9
- C. 9
- D. 2/3
- E. 3

53. A computational problem is called \_\_\_\_\_ if small changes in the data (the input) cause large changes in the solution (the output).

- A. Boundary value problem
- B. Initial value problem
- C. Ill-conditioned (ill pose)
- D. Well-conditioned (well pose)
- E. Boundary as well as well pose problem

54. The surface area of the part of the paraboloid  $Z = x^2 + y^2$  that lies between the planes  $Z = 0$  and  $Z = 9$ .

- A.  $\frac{\pi}{6}(37\sqrt{37} - 1)$
- B.  $\frac{\pi}{6}(37\sqrt{37} + 1)$
- C.  $\frac{2\pi}{3}(37\sqrt{37} - 1)$
- D.  $\frac{2\pi}{3}(37\sqrt{37} + 1)$
- E.  $\frac{\pi}{3}(37\sqrt{37})$

45. An equation containing one or more partial derivatives of a/an \_\_\_\_\_ of two or more independent variables is called Partial differential equation.

- A. Wave function
- B. Known function
- C. Entire function
- D. Laplace function

46.  $U_{xx} = (1 + U_y)^{1/2}$  is partial differential equation of order:

- A. 0
- B. 2
- C. 1
- D. 1/2

47. For any relation if reflexive, symmetric and transitive properties hold then it is called:

- A. Equivalence relation
- B. Ternary relation
- C. Chebyshev's relation
- D. Unary relation

48. According to Euler's Totient function,  $\phi(35) = ?$

- A. 34
- B. 24
- C. 15
- D. 8

49. Probability of two heads in two times tossing a coin is equal to:

- A. 1/2
- B. 1/4
- C. 3/4
- D. 0

50. Let  $R_1$  and  $R_2$  be the radii of convergence of power series

$f(z) = \sum_{n=0}^{\infty} a_n z^n$  and  $f'(z) = \sum_{n=1}^{\infty} n a_n z^{n-1}$  respectively then

- A.  $R_1 = R_2$
- B.  $R_2 = \frac{1}{2} R_1$
- C.  $R_1 > R_2$
- D.  $R_1 < R_2$

P-16-2382-M-BLUE-091016

64. The complex exponential function  $e^z = -1$  when:

- A.  $z = (2n+1)\pi i$  ( $n = 0, \pm 1, \pm 2, \dots$ )
- B.  $z = (\frac{3n}{2} + 1)\pi i$  ( $n = 0, \pm 1, \pm 2, \dots$ )
- C.  $z = (n - \frac{1}{2})\pi i$  ( $n = 0, \pm 1, \pm 2, \dots$ )
- D.  $z = (\frac{n}{4} - 1)\pi i$  ( $n = 0, \pm 1, \pm 2, \dots$ )
- E.  $z = (2n + \frac{1}{2})\pi i$  ( $n = 0, \pm 1, \pm 2, \dots$ )

65. For nonzero complex variable  $z = re^{i\theta}$  (where  $-\pi < \theta \leq \pi$ )

- A.  $\log z = \ln r + i(\theta + 2n\pi)$ , ( $n = 0, \pm 1, \pm 2, \dots$ )
- B.  $\log z = \ln r + i(\theta + n\pi)$ , ( $n = 0, \pm 1, \pm 2, \dots$ )
- C.  $\log z = \ln r + i(\theta - n\pi)$ , ( $n = 0, \pm 1, \pm 2, \dots$ )
- D.  $\log z = \ln r - i(\theta + 2n\pi)$ , ( $n = 0, \pm 1, \pm 2, \dots$ )

66.  $(1+i)^i = \underline{\hspace{2cm}}$

- A.  $\exp(2n\pi) \exp(i\ln 3)$ , ( $n = 0 \pm 1, \pm 2, \dots$ )
- B.  $\exp(\frac{\pi}{4} + 2n\pi) \exp(-\frac{i}{2}\ln 2)$ , ( $n = 0 \pm 1, \pm 2, \dots$ )
- C.  $\exp(\frac{\pi}{2} - n\pi) \exp(i\ln 2)$ , ( $n = 0 \pm 1, \pm 2, \dots$ )
- D.  $\exp(n\pi i) \exp(-i\ln 2)$ , ( $n = 0 \pm 1, \pm 2, \dots$ )

67.  $\int_0^{\frac{\pi}{2}} \int_0^r (4r - r^3) dr d\theta = \underline{\hspace{2cm}}$ .

- A. 0
- B. 1
- C.  $\pi$
- D.  $2\pi$
- E.  $\frac{1}{2}$

P-16-2382-M-BLUE-091016

55. The identity  $e^{iz} = \cos z + i \sin z$ ; (where  $z$  is a complex number) is called:

- A. Gauss Formula
- B. Euler Formula
- C. Cauchy Formula
- D. Laplace Formula
- E. Goursat Formula

56. The derivative  $f'(z)$  of the complex function  $f(z) = \bar{z}$  is:

- A. -1
- B. 0
- C.  $\infty$
- D. 1
- E. Does not exist.

57. The derivative  $f'(z)$  of the complex function  $f(z) = \sqrt{re^{i\theta}}$  is:

- A.  $-\frac{1}{2f(z)}$
- B.  $-\frac{1}{f'(z)}$
- C.  $\frac{1}{f(z)}$
- D.  $\frac{1}{2f(z)}$
- E.  $-f(z)$

58. The complex function  $f(z) = \frac{1}{z}$  is analytic \_\_\_\_\_.

- A. everywhere
- B. at each nonzero point
- C. nowhere
- D. at zero

59. The complex function  $f(z) = 3x + y + i(3y - x)$  is analytic at:

- A. -4
- B. -2
- C. Every point
- D. 1
- E. 0

P-16-2382-M-BLUE-091016

33. The relationship between the product of the roots of  $px^2 + qx + c = 0$  are equal to:

- A.  $\frac{q}{p}$
- B.  $\frac{c}{p}$
- C.  $-\frac{q}{p}$
- D.  $\frac{c}{q}$

34. If  $27^{4x-10} \times 3^{4x-2} = 81$ , what is the value of x?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

35. If the average (arithmetic mean) of the set of numbers below is 6, then find the value of Y:  
 $\{1, 4, 6, Y\}$

- A.  $Y=13$
- B.  $Y=5$
- C.  $Y>13$
- D.  $Y>6$

41. The modulus of the sum of three mutually perpendicular unit vectors is:

- A. 3
- B.  $\sqrt{3}$
- C. 0
- D. 1

42. For what value of 'a' the magnitude of the vector  $ai + (a+1)j + (a-1)k$  is 2?

- A.  $\frac{2}{\sqrt{3}}$
- B.  $\frac{2}{3}$
- C.  $\frac{\sqrt{3}}{2}$
- D.  $\frac{3}{2}$

43. Find the  $\int \int \int_{0,0,0}^{5,4,2} dx dy dz$

- A. 20
- B. 40
- C. 8
- D. 10
- E. 35

44. Find the range of value of "a", if the function

$f(x) = x^2 + ax + 3x - 1$  is always increasing?

- A.  $[-3, 3]$
- B.  $(-3, 3)$
- C.  $(-\infty, -3)$
- D.  $(3, \infty)$
- E.  $(-\infty, \infty)$

P-16-2382-M-BLUE-091016

## SUBJECT

36. Find the limit of the sequence, as  $n$  approaches to infinity,

$$\left\{ \frac{n}{\sqrt{n+2}} \right\}$$

- A. 1
- B. 0
- C. 2
- D.  $\sqrt{2}$
- E. -

37. The general form of particular solution  $y_p$  for the differential equation  $y''' = 1$  is:

- A. A
- B.  $Ax^3$
- C.  $Ax$
- D.  $Ax^2$
- E.  $Ax^4 + B$

38. Let  $H$  be a subgroup of a group  $G$  with  $O(H)=25$  and  $O(G)=75$  then index of  $H$  in  $G$  is \_\_\_\_\_.

- A. -3
- B. 25
- C. 20
- D. 3
- E. 50

39. Calculate the acceleration of the particle moving in a straight line according to the distance function,  $s = t^2 - 4t + 2$ .

- A. 2
- B. 0
- C. 1
- D. -2
- E. -4

40. The volume of parallelepiped, whose edges are;

$a = 4i - 2j - k$ ,  $b = i + 3j - 3k$  and  $c = 5i + 2j + 4k$  is:

- A. 97
- B. 123
- C. 75
- D. 67

P-16-2382-M-BLUE-091016

44. It is possible to cancel earth's magnetic field by running an enormous current loop around the globe. Which way the current should be directed?

- A. East to west
- B. West to east
- C. North to south
- D. South to north

45. The speed of sound in air is a function of:

- A. Wavelength
- B. Frequency
- C. Temperature
- D. Amplitude

46. A violin plays a melody line and is then joined by a second violin, playing at the same intensity in a repeat of the same melody. Which of the following physical parameter has doubled?

- A. Wavelength
- B. Frequency
- C. Intensity
- D. Time period

47. What should be the length for a simple pendulum having a period of 1 s installed at Ziarat whose altitude is 8000 m and the value of g is  $9.25 \text{ m/s}^2$ ?

- A. 1.0 m
- B. 0.333 m
- C. 0.972 m
- D. 1.102 m
- E. 0.234 m

48. Heat is defined as the transfer of energy across the boundary of system and its surroundings due to:

- A. difference in pressure
- B. difference in temperature
- C. difference in number of molecules
- D. Difference in volume

49. If a body is moving along x-axis and its velocity and acceleration both are negative, what is the state of body at that time?

- A. Both velocity and acceleration can't be negative
- B. Body is slowing down
- C. Body is speeding up
- D. Body could be speeding up only with negative acceleration

38. The same potential difference is applied to the two 60W and 30W light bulbs. Which one of the following statements is true?

- A. The 30-W bulb carries the greater current and has the higher resistance.
- B. The 30-W bulb carries the greater current, but the 60-W bulb has the higher resistance.
- C. The 30-W bulb has the higher resistance, but the 60-W bulb carries the greater current.
- D. The 60-W bulb carries the greater current and has the higher resistance.

39. An electron is moving in the plane of this paper towards the top position of the page. A magnetic field is applied in the plane of the page and directed towards the right. The direction of the magnetic force on the electron is:

- A. upward out of the page
- B. downward into the page
- C. towards the left edge of the page
- D. towards the right edge of the page

40. Which one of the following has the least range?

- A.  $\gamma$ -rays
- B.  $\alpha$ -rays
- C.  $\beta$ -rays
- D. X-rays

In an intrinsic semiconductor, major part of current is due to:

- A. Conduction-band electrons
- B. Valence-band electrons
- C. Holes in the valence-band
- D. Bound electrons

The photoelectric effect confirms the assumption that:

- A. the energy of light increases with speed
- B. light is transverse in nature
- C. light has wave nature
- D. light consists of photons or quanta

$$P = h\nu c$$

is:

ideal radiator  
ideal absorber  
neither emits nor absorbs  
and an ideal absorber

44. It is possible to cancel earth's magnetic field by running an enormous current loop around the globe. Which way the current should be directed?

- A. East to west
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- C. North to south
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49. If a body is moving along x-axis and its velocity and acceleration both are negative, what is the state of body at that time?

- A. Both velocity and acceleration can't be negative
- B. Body is slowing down
- C. Body is speeding up
- D. Body could be speeding up only with negative acceleration

31. مولزا ادیب کی رجہ شہرت میں تراویح کی بدولت ہے؟

- A. استیج
- B. بیٹھو
- C. شی
- D. کیسی
- E. معاشر

32. "مردم بند" اکے دنکون کا موضوع کیا ہے؟

- A. لوگ
- B. اشخاص
- C. منظر
- D. احباب

33. یہ شعر کس صنف سے ناطق رکھتا ہے؟

بیٹھتا ہے اک سیکھ سے اکے دوز جام اس کا  
کسی کو نہ نہ لے لے رکھتا نہیں سے لطف علم اس کا

- A. حد
- B. نعت
- C. غزل
- D. قصیدہ
- E. منقبہ

34. نقطہ، کلاسی، کم کی تخلیق سے؟

- A. انور معمود
- B. انور مقصود
- C. ابن انساء
- D. مستنصر حسین تاریخ
- E. المظار حسین

35. میرنگی میرنگی غربیات کا بنیادی موضوع کیا ہے؟

- A. خشم
- B. خوشی
- C. لطف اندوزی
- D. ادب
- E. جنگ

53. With which one of the following will you associate Balochistan?

- A. Baluchistan
- B. KPK
- C. Sind
- D. Punjab
- E. Gilgit Baltistan

54. Pakistan's "Five years Plan" started with the help of \_\_\_\_\_.

- A. USA
- B. UK
- C. Canada
- D. Saudi Arabia
- E. Sudan

55. The need for a greater international understanding is more today than ever because of the issue of \_\_\_\_\_ in the recent past

- A. floods
- B. wars
- C. diseases
- D. terrorism
- E. Illiteracy

3. This passage supports which of the following conclusions?
- A. Disapproval for failure makes people less willing to make public commitments.
  - B. Intentions announced out loud are more effective than those published in newspapers.
  - C. Well-informed people are more likely to publicly disclose their intentions.

Complete the sentences by choosing the most appropriate option, from the given choices (A to D/E) below each.

4. As genetic research and data grow in respect and amount, the question of \_\_\_\_\_ vs. environment, or nature vs. \_\_\_\_\_ painfully resolving itself, with the geneticists currently in command.

- A. genes ... culture
- B. personality ... modernity
- C. upbringing ... civilization
- D. heredity ... nurture
- E. family ... community

5. Furniture designed by Sara has clean, simple lines; it lacks the embellishments found in some other styles.

- A. severe
- B. ornate
- C. untoward
- D. unadorned
- E. understand

6. If the consultant \_\_\_\_\_ that we should hire more staff, Ali wouldn't be working here now.
- A. should not recommend
  - B. doesn't recommend
  - C. hadn't recommended
  - D. wasn't recommend

Five options (A to E) follow a related pair of words given in capitals. Select the option that best expresses a relationship similar to that expressed in the original pair.

7. INTRANSIGENT : FLEXIBILITY::

- A. transient : mobility
- B. disinterested : partisanship
- C. dissimilar : variation
- D. progressive : transition
- E. ineluctable : modality

EXHIBITIONIST: ATTENTION:

- A. sycophant: flattery
- B. scientist: power
- C. megalomaniac: admiration
- D. martyr: anonymity
- E. mercenary: enthusiasm

ANARCHY: ORDER::

- A. desolation: disorder
- B. ineptitude: incompetence
- C. bastion: authority
- D. chaos: disorder
- E. parsimony: stinginess

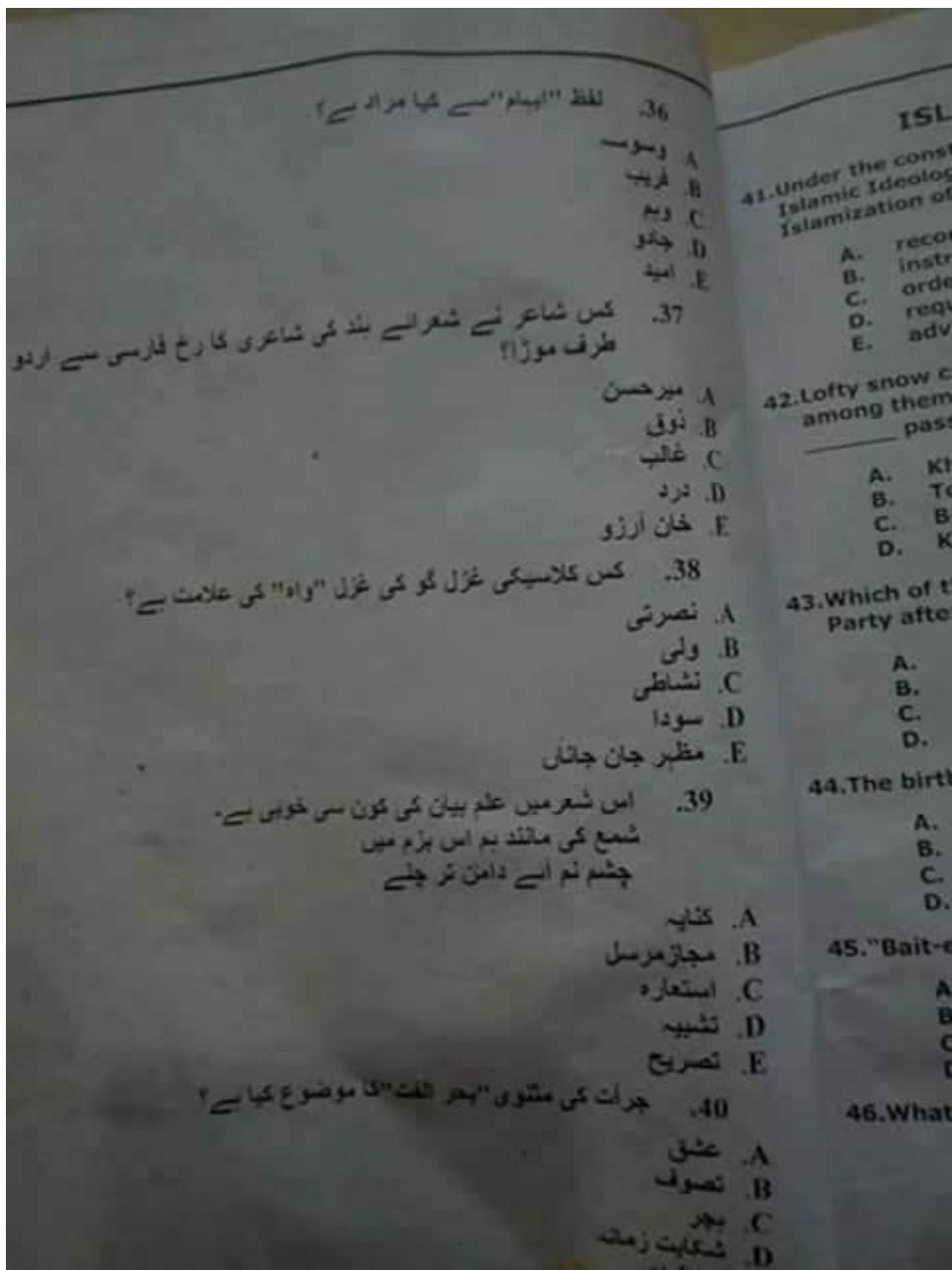
Change the voice:

10. Ali put his coat on

- A. His coat on
- B. His coat on
- C. His coat on
- D. His coat on
- E. His coat on

11. Unless the sale

- A. The sale was
- B. The sale was
- C. The sale was
- D. The sale was
- E. The sale was



## ISLAMIYAT/SOCIAL STUDIES

41. Under the constitution of 1973 of Pakistan, the prime function of Islamic Ideological Council is to \_\_\_\_\_ steps for Islamization of State and Society in Pakistan.

- A. recommend
- B. instruct
- C. order
- D. request
- E. advise

42. Lofty snow covered mountains lie between Pakistan and China, among them Karakoram Highway links the two countries via the \_\_\_\_\_ pass.

- A. Khunjerab
- B. Tochi
- C. Bolan
- D. Khyber

43. Which of the following parties emerged as single majority Political Party after 1970 general election in West Pakistan?

- A. Muslim League
- B. Jamat-i-Islami
- C. Pakistan Peoples Party
- D. National Awami Party

44. The birth year of Hazrat Muhammad (SAW) is called \_\_\_\_\_.

- A. Am ul Hazoor
- B. Am ul Feel
- C. Am ul Ka'aba
- D. Am ul Makkah

45. "Bait-e-Rizwan" was made to take the revenge of:

- A. Hazrat Hamzah (RA)
- B. Hazrat Usman (RA)
- C. Hazrat Ali (RA)
- D. Hazrat Umar (RA)

46. What do you understand by "Al-Fay"?

- A. Land cultivated by Muslims
- B. Land cultivated by Non-Muslims
- C. Conquered land by Muslims which became the property of Islamic state
- D. Hill

## SUBJECT TWO

76. The authority to establish a Farogh-e-Taleem Fund for schools has been granted under the \_\_\_\_\_.

- A. Punjab Farogh-e-Taleem Act, 2013
- B. Punjab Free and Compulsory Education Act, 2013
- C. Punjab Free and Compulsory Education Act, 2014
- D. Punjab Education Quality Improvement Act, 2015

77. For how many districts of Punjab was the Non Salary Budget started in the year 2013-14?

- A. Fifteen
- B. Fourteen
- C. Twelve
- D. Ten
- E. Eight

78. Who will maintain, in the prescribed manner, a record of children up to the prescribed age limit residing within its jurisdiction?

- A. Head of the school
- B. Local Government
- C. District Education Officer
- D. Provincial Government

79. What are the two distinct parts of a file?

- A. Comments part and correspondence part
- B. Correspondence part and observations part
- C. Critical part and non-critical part
- D. Correspondence part and noting part

80. Which one of the following processes is excluded from the most correct definition of record keeping in a school or office?

- A. Receiving
- B. Commenting
- C. Classifying
- D. Preserving

According to the instruction for the year 2014-15 Non Salary Budget, which one of the followings comes under the heading 'Fixed' for the purpose of allocation of Non Salary Budget?

- A. Photocopying and printing
- B. Electricity, minor repair
- C. Computer and other requirements
- D. Learning material

## ENGLISH

Questions 1-3 are based on the following passage.

Psychologists have found that privately made resolutions are rarely followed, whereas a public commitment to achieve some goal, such as losing weight or giving up smoking, is likely to be much more effective. This is because the approval of others for reaching one's target is valued. In contrast, disapproval for failure can lead to feelings of shame.

Advertising agencies have designed studies bearing out the truth of this observation. In their research, a group of strangers was bombarded with information about the qualities of a particular product. They were then asked to either announce out loud or write down privately whether they intended to buy the product. It was later discovered that those who publicly declared their intention to buy were considerably more likely to do so than those who affirmed their intentions in private.

In another study, an experimenter claiming to represent a local utility company interviewed homeowners, telling them he was investigating ways in which energy consumption could be reduced. Half the subjects, randomly selected, were told that if they agreed to conserve energy, their names would be mentioned in an article published in the local newspaper; the remaining half were told their names would not be used. All those interviewed agreed to cooperate and signed a form either giving consent for their names to be used or stating that their names would not be used. Later in the year, the amount of gas consumed in each house was recorded. The owners who had agreed to their names being published had used significantly less gas than those who remained anonymous.

. It can be inferred that all of the following help motivate a person to achieve a goal EXCEPT:

- A. a desire for approval
- B. a fear of disapproval
- C. a fear of failure
- D. a sense of noncommitment

Why were advertising agencies probably interested in conducting their study?

- A. They want to introduce their people to more products.
- B. They wanted to demonstrate the quality of their clients' product.
- C. They wanted to know if people intended to purchase their clients' products.
- D. They wanted to find the best way to get people to buy their clients' products.

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47."Islam is based on five pillars: to declare that there is no God but Allah and Hazrat Muhammad (SAW) is the Messenger of Allah, to establish prayers, to pay Zakat, to perform the pilgrimage and to fast in Ramazan". It is:

- A. Qur'anic verse
- B. Hadis of the Holy Prophet
- C. Saying of Sahaba
- D. Commonly accepted principle

48.Which was the first battle fought by the Muslims against the Makkans?

- A. Khyber
- B. Tabook
- C. Khandaq
- D. Badr

49.Religiously required per capita yearly tax historically levied by Islamic States on certain non-muslim subjects is known as:

- A. Ushr
- B. Khums
- C. Jizya
- D. Takaful

50.What is the meaning of Bashir?

- A. The messenger of good news
- B. The prophet
- C. The illuminating
- D. The true friend

51.When was the All India Muslim League formed?

- A. 1905
- B. 1906
- C. 1907
- D. 1908
- E. 1909

52.Who was the first Sindh Education Minister?

- A. Pir Illahi Bukhsh
- B. Pir kamal
- C. Pir Paghara
- D. Pir Shah Pyaray
- E. Pir Meher Ali Shah

8. The process in the ecosystem which is a response to excess nutrients stimulating excessive plant growth is called:

- A. Decentralization
- B. Eutrophication
- C. Bioaccumulation
- D. Purification
- E. Anaerobic respiration

9. An environmental protocol is a sort of international law, inter as legally binding with a primary stated purpose of preventing managing human impacts on:

- A. Industrial growth
- B. Global Economic growth
- C. Strategic relations
- D. Natural resources

10. Which of the following is NOT a prime aim of international protocols for environment?

- A. Reduction of emission of four Green House Gases
- B. Resolving the environmental issues
- C. Encouraging the utilization of fossil fuels
- D. Controlling environmental Pollution

31. میرزا ادیب کی وجہ شہرت کن تر اموں کی بدولت ہے؟

- A. استیج
- B. ریڈیو
- C. شی وی
- D. کتابی
- E. معاشرتی

32. "مردم دیدہ" کے خالوں کا موضوع کیا ہے؟

- A. لوگ
- B. اشخاص
- C. منظر
- D. احباب

33. یہ شعر کس صنف سے تعلق رکھتا ہے؟  
پہنچتا ہے بر اک میے کن کے اگے دور جام اس کا  
کسی کو تشنہ لب رکھتا نہیں ہے لطف عام اس کا

- A. حد
- B. نعت
- C. غزل
- D. نظم
- E. منقبت

34. "قطعہ کلام" کی کی تخلیق ہے؟

- A. انور مسعود
- B. الور مقصود
- C. ابن انشاء
- D. مستصر حسین تاری
- E. التقاری حسین

35. میر تقوی میر کی غزلیت کا بنیادی موضوع ہے؟

- A. علم
- B. خوشی
- C. لطف الدلیل
- D. امید
- E. حنف

31. میرزا ادیب کی وجہ شہرت کن تر اموں کی بدولت ہے؟

- A. استیج
- B. ریڈیو
- C. شی وی
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- E. معاشرتی

32. "مردم دیدہ" کے خالوں کا موضوع کیا ہے؟

- A. لوگ
- B. اشخاص
- C. منظر
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پہنچتا ہے بر اک میے کن کے اگے دور جام اس کا  
کسی کو تشنہ لب رکھتا نہیں ہے لطف عام اس کا

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- B. نعت
- C. غزل
- D. نظم
- E. منقبت

34. "قطعہ کلام" کی کی تخلیق ہے؟

- A. انور مسعود
- B. الور مقصود
- C. ابن انشاء
- D. مستنصر حسین تاری
- E. التخاری حسین

35. میر تقوی میر کی غزلیت کا بنیادی موضوع ہے؟

- A. علم
- B. حلوشی
- C. لطف الدلواہی
- D. امید
- E. حنفی

## ENGLISH

Complete the sentences by choosing the most appropriate option, from the given lettered choices (A to D/E) below each.

1. The task seemed impossible but some-how Rashid \_\_\_\_\_ very skillfully in the end.

- A. pulled it up
- B. pulled it off
- C. pulled it away
- D. pulled it out

2. \_\_\_\_\_ by long queues and bad weather the voters \_\_\_\_\_ their way to polling stations any way they could.

- A. Undaunted ... made
- B. Worried ... lost
- C. Encouraged ... prepared
- D. Going ... dropped
- E. Satisfied ... turned

3. She has not seen her family \_\_\_\_\_ three years.

- A. since
- B. for
- C. from
- D. before

4. I have no \_\_\_\_\_ motive in offering this advice; I seek no personal advantage or honor.

- A. nominal
- B. incongruous
- C. disinterested
- D. ulterior

5. Although the news he reported was \_\_\_\_\_ the anchorman remained calm, keeping his fear from his expression.

- A. confusing
- B. unexpected
- C. anxious
- D. exciting
- E. dreadful

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## ENGLISH

Complete the sentences by choosing the most appropriate option, from the given lettered choices (A to D/E) below each.

1. The task seemed impossible but some-how Rashid \_\_\_\_\_ very skillfully in the end.

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- B. pulled it off
- C. pulled it away
- D. pulled it out

C

2. \_\_\_\_\_ by long queues and bad weather the voters \_\_\_\_\_ their way to polling stations any way they could.

- A. Undaunted ... made
- B. Worried ... lost
- C. Encouraged ... prepared
- D. Going ... dropped
- E. Satisfied ... turned

P

3. She has not seen her family \_\_\_\_\_ three years.

- A. since
- B. for
- C. from
- D. before

B

4. I have no \_\_\_\_\_ motive in offering this advice; I seek no personal advantage or honor.

- A. nominal
- B. incongruous
- C. disinterested
- D. ulterior

A

5. Although the news he reported was \_\_\_\_\_, the anchorman remained calm, keeping his fear from his expression.

- A. confusing
- B. unexpected
- C. anxious
- D. exciting
- E. dreadful

H

P-16-2382-R-WHITE-091016

**12.ERUDITE:**

- A. professional
- B. immature
- C. unimaginative
- D. learned
- E. ignorant

A

**13.HAPLESS:**

- A. unlucky
- B. kind
- C. helpful
- D. futile

A

**14.BROCHURE:**

- A. opening
- B. pamphlet
- C. censor
- D. pin

B

**15.CHIDE:**

- A. unite
- B. fear
- C. record
- D. scold

C

Five lettered pairs (A to E) follow a related pair of words given in capitals. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capitals.

**16.PEDIATRICS: CHILDREN::**

- A. dermatology: skin
- B. pathology: medicine
- C. meteorology: forecasts
- D. neurology: psychologists
- E. ecology: environmentalists

A

**17.CREASE: FOLDING::**

- A. serration: braiding
- B. hole: perforating
- C. dent: weakening
- D. break: setting
- E. scratch: cracking

X

P-16-2382-R-WHITE-091016

**18.FOOD: NOURISH::**

- A. organ: secrete,
- B. fluids: circulate
- C. cells: degenerate
- D. antibodies: protect
- E. fats: saturate

A

**19.FOOLPROOF: FAIL::**

- A. translucent: filter
- B. viscous: smear
- C. volatile: explode
- D. airtight: leak
- E. taut: break

A

**Change the voice of the following. (Active & passive voice)**

**20.The doctor treated the patient.**

- A. The patient being treated by the doctor.
- B. The patient is being treated by the doctor.
- C. The patient was being treated by the doctor.
- D. The patient is treated by the doctor.
- E. The patient was treated by the doctor.

X J

**21.He will buy a ticket.**

- A. A ticket will be bought by him.
- B. A ticket will be being bought by him.
- C. A ticket would be bought by him.
- D. A ticket shall be bought by him.
- E. A ticket would have been bought by him.

A

**22.Obey your teachers.**

- A. Let your teachers obeyed.
- B. Let your teachers be obeyed.
- C. Let us your teachers obeyed.
- D. Your teachers be obeyed.

B

**Change the narration of the following (Direct & indirect speech)**

**23.He said to me. "Do you study at night?"**

- A. He asked me if you studied at night.
- B. He asked me if I study at night.
- C. He asked me if I studied at night.
- D. He asked me if you study at night.
- E. He asked me that I studied at night.

C

6. There are 2575 chicks and 1323 hens in a poultry farm. How many more chicks are there than hens?

- A. 1252
- B. 1152
- C. 1352
- D. 1452

7. A student solves 36 questions of mathematics every day. How many questions did he solve in 7 days?

- A. 42
- B. 216
- C. 242
- D. 252

8. Two bags of flour together weigh 125kg-32gm, if the weight of one bag is 62kg-500gm. What is the weight of other bag?

- A. 62kg-532gm
- B. 63kg
- C. 63kg-825gm
- D. 64kg

9. Which of the following closed figure has no side?

- A. Triangle
- B. Square
- C. Circle
- D. Rectangle

10. Find the perimeter of a rectangle whose length is 8 cm and breadth is 4 cm?

- A. 24cm
- B. 12cm
- C. 32cm<sup>2</sup>
- D. 24cm<sup>2</sup>

11. If the length of a sea turtle is directly proportional to its age, and a 2-year old sea turtle is 3 inches long, how many feet long is an 80-year old sea turtle?

- A. 10
- B. 12
- C. 100
- D. 120
- E. 144

16-2382-A 1-PINK-091016

54. The lunch was enjoyed by the guests.

- A. The guests enjoyed the lunch.
- B. The guests were enjoying the lunch.
- C. The guests will enjoy the lunch.
- D. The guests enjoy the lunch.

55. The photographer will take photographs of the wedding.

- A. The photographs of wedding will taken by the photographer.
- B. The photographs of wedding was taken by the photographer.
- C. The photographs of wedding be taken by the photographer.
- D. Photographs of wedding will be taken by the photographer.
- E. The photographs of wedding is taken by the photographer.

Change the narration of the following (Direct & Indirect speech)

56. The teacher said, "One should respect the feelings of others."

- A. The teacher advises that one should respect the feelings of others.
- B. The teacher advised that one should be respect the feelings of others.
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- D. The teacher advised that one respect the feelings of others.

57. The tortoise exclaimed with joy that he had won the race.

- A. The tortoise said, "I won the race."
- B. The tortoise said, "Hurrah! I win the race."
- C. The tortoise said, "Hurrah! I had won the race."
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58. "Jawad thinks that stick is neat," he said.

- A. He said that Jawad thought that stick was neat.
- B. He said that Jawad thinks that stick was neat.
- C. He said that Jawad thought that stick is neat.
- D. He said that Jawad thought that stick neat.

## SCIENCE

21. During respiration we take \_\_\_\_\_ into the lungs and exhale \_\_\_\_\_ to the atmosphere.

- A. Oxygen ... nitrogen
- B. Oxygen ... carbon dioxide
- C. Carbon dioxide ... Oxygen
- D. Carbon dioxide ... nitrogen

22. Which of the following is non-biodegradable?

- A. Grass clippings
- B. Feather
- C. Styrofoam
- D. Paper

23. Matter has how many states?

- A. 2
- B. 3
- C. 4
- D. 5
- E. 6

24. An animal has legs, skeleton and segmented body but lacks backbone and gills. To which of the following does it belong?

- A. Bacteria
- B. Algae
- C. Vertebrates
- D. Invertebrates

25. In Fahrenheit scale, the freezing point of water is \_\_\_\_\_ and boiling point of water is \_\_\_\_\_.

- A. 0°F ... 100°F
- B. 32°F ... 212°F
- C. 50°F ... 150°F
- D. -273°F ... 273°F

26. When light source is far away from the object, the shadow formed is:

- A. Equal in size to the object
- B. Smaller in size than the object
- C. Bigger in size than the object
- D. Double in size than the object

P-16-2382-A 1-PINK-091016

27. Those magnets which can lose their magnetic ability easily are known as:

- A. Natural magnets
- B. Artificial magnets
- C. Temporary magnets
- D. Both B and C

28. The distance covered in a given time is known as:

- A. Force
- B. Displacement
- C. Speed of an object
- D. Power

29. If we strike an object with less force, \_\_\_\_\_ will be produced.

- A. High sound
- B. Low sound
- C. Medium sound
- D. No sound

30. The earth takes 365.25 days to make one revolution around the sun, this period is known as:

- A. Leap year
- B. One year
- C. Revolution year
- D. Mid year

## **CA/GK**

31. To reach the nadir means to reach \_\_\_\_\_.

- A. The nearest point
- B. The highest point
- C. The lowest point
- D. The closest point

32. The main country in which the Shinto religion is practiced is:

- A. China
- B. India
- C. Japan
- D. Thailand
- E. Nepal

33. Who is Pope?

- A. Head of the Roman Catholic Church
- B. Head of the Protestants
- C. Head of the US Catholic church
- D. Head of the English Church

34. Who is the champion of Cricket World Cup 2015?

- A. New Zealand
- B. Australia
- C. England
- D. India
- E. Pakistan

35. The operation launched against Chotu Gang in Rajanpur by  
Pakistan Army was named as:

- A. Zarb-e-Azb
- B. Zarb-e-Aahan
- C. Operation Rah-e-Rast
- D. Operation Rah-e-Nijat
- E. Combing operation

## PEDAGOGY

91. The teachers' emphasis on thinking rather than behavior and active learning rather than passive are examples of:

- A. Behaviorism
- B. Neo-behaviorism
- C. Social learning
- D. Information processing

92. The quality possessed by the individual to adapt rapidly to the situation can be best related to:

- A. Intelligence
- B. Creativity
- C. Aptitude
- D. Attitude

93. Education is a process of bringing desirable change into:

- A. Behavior
- B. Conduct
- C. Character
- D. Social action

94. The first consideration of planning a teaching session is:

- A. Teaching material
- B. Concerning outcomes
- C. AV aids
- D. Assessment tools

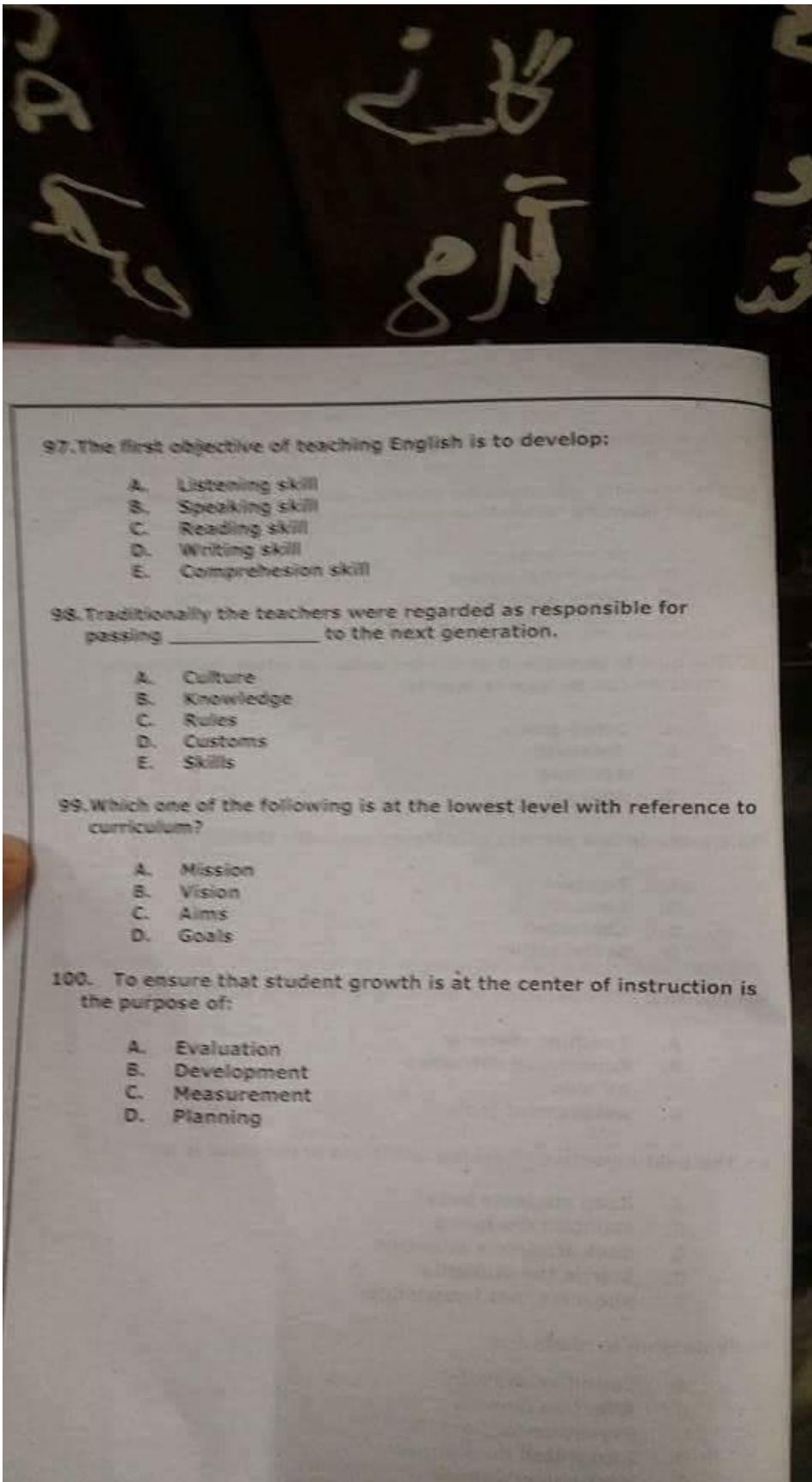
95. The best objective of asking questions in the class is to:

- A. Keep students busy
- B. Maintain discipline
- C. Seek student's attention
- D. Startle the students
- E. Show his/her knowledge

96. Evaluation is related to:

- A. Cognitive domain
- B. Affective domain
- C. Psychomotor domain
- D. Integrated domain
- E. Mechanical domain

16-2382-A 1-PINK-091016



## URDU

غريب .66

فانہوں میں رہے ہیں۔

- A میں
- B کی
- C کے
- D نے
- E کو

.67

بچہ — میں ڈھنڈوڑا شیر میں۔

- A بارہ
- B سانہ
- C بغل
- D گود
- E بڑوس

.68. گرانمر کی رو سے لابور — ہے۔

- A اسم نکرہ
- B اسم معرفہ
- C فعل
- D امدادی فعل

.69. کیوں کیسے کب، اسم نکرہ کیسے مطابق ہے — ہیں۔

- A اسم معرفہ
- B اسم جامد
- C اسم استفهام
- D اسم ذات

.70. غزل کا پہلا مصروعہ جس کے دونوں مصروعے ہم فائیہ اور ہم ردیف بون — کہلاتا ہے۔

- A پہلا مشعر
- B مطلع
- C مکھڑا
- D مقطع

.71. مسلک کا مطلب ہے:

- A پندرہ زمین
- B سترہ
- C پانچ تھیس والا
- D پانچ ترائیس والا

.72. حکومت کا مطلب ہے:

- A بے شرم
- B خیرت مندر
- C بے عرضی
- D ذات
- E غربت

.73. دبادکا منضد ہے:

- A بروشن
- B کمان
- C شک
- D بقین

.74. جہنجھلانا کا منضد ہے:

- A مطمین بونا
- B غفت کھتنا
- C خٹا بونا
- D بے چمن بونا

.75. مطلب نکل جائے کیسے بعد لوگ — کی طرح انکھیں بھر لئے

- پیش:
- A تو
  - B نومزی
  - C طوطے
  - D کیوں
  - E کوئے

P-16-2382-A 1-PINK-091016

15

## MATH

1. What is the place value of '7' in number 75234?
  - A. Ones
  - B. Tens
  - C. Hundreds
  - D. Thousands
  - E. Tens thousands
2. There are 665 male voters and 335 female voters in a village. What is the percentage of male voters in the village?
  - A. 66.5
  - B. 33.5
  - C. 50.5
  - D. 45.5
3. A room is 8 meters long and 6 meters wide. The floor of the room is to be paved with square tiles. What should be the maximum length of the tile to be used?
  - A. 1m
  - B. 2m
  - C. 4m
  - D. 6m
  - E. 8m
4. Find the least number so that when it is divided by 10, 12, 16 and 18 leaves zero as remainder?
  - A. 520
  - B. 620
  - C. 720
  - D. 820
5. If  $\frac{5}{2}$  of the work is completed in 15 days. How much work will be done in one day?
  - A.  $\frac{75}{2}$
  - B.  $\frac{1}{6}$
  - C.  $\frac{2}{75}$
  - D.  $\frac{6}{75}$

P-16-2382-A 1-PINK-091016

12. Simplify:

$$4 \times [0.7 + [1.6 + 3.8 - (1.1 \times 0.75)]]$$

- A. 19
- B. 19.1
- C. 20
- D. 20.1
- E. 21.1

13. Convert  $40^{\circ}\text{C}$  in Fahrenheit.

- A.  $100^{\circ}\text{F}$
- B.  $102^{\circ}\text{F}$
- C.  $104^{\circ}\text{F}$
- D.  $105^{\circ}\text{F}$

14. Ratio of milk to water is 4:1, if there are 8 litres of milk then find volume of water in it?

- A. 2 litres
- B. 4 litres
- C. 6 litres
- D. 8 litres

15. An angle whose measure is greater than  $180^{\circ}$  but less than  $360^{\circ}$  is called:

- A. Acute angle
- B. Obtuse angle
- C. Complete angle
- D. Reflex angle
- E. Right angle

16. Find the expenditure of carpeting a room of 5 meters length and 4 meters width at a rate of Rs.100 per meters square?

- A. Rs.1000
- B. Rs.1500
- C. Rs.2000
- D. Rs.4000

17. The number of times a value occurs in a data is called \_\_\_\_\_ of the value.

- A. Mean
- B. Median
- C. Frequency
- D. Range

P-16-2382-A 1-PINK-091016

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23. A specific type of writing in which the settings, characters, and events stand for other specific people, events, or ideas is known as:

- A. Allegory
- B. Anadiplosis
- C. Anacrusis
- D. Aisling

24. A figure of speech in which the speaker addresses an object, concept, or person (usually absent) that is unable to respond is known as:

- A. Arcadia
- B. Apostrophe
- C. Argument
- D. Apron stage

25. Jonathan Swift is known for \_\_\_\_\_ in Gulliver's Travels.

- A. Lucidity
- B. Satire
- C. Humor
- D. Morality

26. The 18th century is also known as the

- A. Age of Reformation
- B. Age of Enlightenment
- C. Dark Ages
- D. Puritan age

27. Wide Sargasso Sea is a post-colonial re-writing of which novel?

- A. Pride and Prejudice
- B. Jane Eyre
- C. Vanity Fair
- D. Brave New World

28. Emily Bronte wrote just one novel in her life, which is named

- A. Wuthering Heights
- B. Shadows of the Crescent moon
- C. Jane Eyre
- D. Mill on the Floss

29. The very first country in Europe where the Renaissance movement started is

- A. France
- B. Italy
- C. Germany
- D. England

30. Culture and Anarchy is written by:

- A. Mathew Arnold
- B. P.B Shelley
- C. Walter Pater
- D. E.E Cummings

31. The pioneer of the concept of imitation in criticism is:

- A. Aristotle
- B. Socrates
- C. Plato
- D. Sophocles

32. Who said in conformity to Robert Frost that poetry leads from delight to wisdom not from wisdom to delight?

- A. William Blake
- B. Ted Hughes
- C. Elizabeth Sewell
- D. Seamus Heaney

33. "So much depends

Upon  
A red wheel  
Barrow  
Glazed with rain  
Water"

The above poem is an example of which of the following poetic form?

- A. Villanelle
- B. Limerick
- C. Eclogue
- D. Haiku

14. "If you prick us, do we not bleed? If you tickle us, do we not laugh? If you poison us, do we not die? And if you wrong us, shall we not revenge?" the preceding lines by Shakespeare reminds us about the character:

- A. Othello
- B. Iago
- C. Shylock
- D. Hamlet

16-2382-C-PINK-091016

35. Tennessee Williams and Arthur Miller won real acclaim after:

- A. American Civil War
- B. Battle of Waterloo
- C. World War I
- D. World War II

36. Which of the following has written the biography of Florence Nightingale in his Eminent Victorians?

- A. Lytton Strachey
- B. Jonathan Swift
- C. Francis Bacon
- D. Paul Scott

37. Who has written "New Atlantis"?

- A. Bertrand Russell
- B. Jonathan Swift
- C. Francis Bacon
- D. Lytton Strachey

38. Who has written the short story, The Three Strangers?

- A. Alfred Tennyson
- B. Ernest Hemingway
- C. Thomas Hardy
- D. V. S Naipur

39. Who has written the short story, The Duchess and the Jeweler?

- A. Brian Friel
- B. Anton Chekhov
- C. Hanif Kureishi
- D. Virginia Woolf

40. Which of the following novel of Charles Dickens was left unfinished owing to his death?

- A. The Goblins
- B. Pickwick Papers
- C. Mystery of Edwin Drood
- D. David Copperfield

P-16-2382-C-PINK-091016

**48.** What is an informal series of reports about the computer communication protocols, including TCP/IP and other Internet architectures, wireless and mobile networks, and their history?

- A. Reply for Comments (RFCs)
- B. Revision for Comments (RFCs)
- C. Requests for Comments (RFCs)
- D. Revision for Computer Technologies (RFCs)
- E. Request for Corrections (RFCs)

**49.** A binary tree in which every non-leaf node has non-empty left and right sub-trees is called a strictly binary tree. Such a tree with 4 leaf nodes:

- A. Has exactly 10 total nodes
- B. Can not have more than 5 nodes
- C. Has exactly 7 total nodes
- D. Must have more than 20 nodes

**50.** Which of the following traversal techniques lists the node of a binary search tree in ascending order?

- A. Post-order
- B. Pre-order
- C. In-order
- D. Out-order

**51.** Identify the order of an algorithm from the following that finds whether a given Boolean function of 'n' variables produce a 1?

- A. Constant order
- B. Linear order
- C. Exponential order
- D. Logarithmic order

**52.** Identify from the following the number of possible binary trees with 3 nodes which when traversed in post-order give the sequence X, Y, Z .

- A. 5
- B. 7
- C. 9
- D. 3

**53.** Which of the following is an example of volatile memory?

- A. RAM
- B. ROM
- C. PROM
- D. HARD DISK

**P-16-2382-Q-BLUE-091016**

**30.** An equation that can be written in the form  $ax+b$ ,  $a \neq 0$ , where "a" and "b" are constants and "x" is variable is called:

- A. Linear equation
- B. Quadratic equation
- C. Inequality
- D. Solution
- E. Constant

**31.** Distance between two points A(6, -2) and B(-2, 2) is:

- A. 40
- B. 80
- C. 4
- D.  $4\sqrt{5}$
- E. 20

**32.** A quadratic equation having roots 3 and 4 is:

- A.  $x^2 + 7x + 12 = 0$
- B.  $x^2 - 7x + 12 = 0$
- C.  $x^2 - 12x + 7 = 0$
- D.  $x^2 + 12x - 7 = 0$
- E.  $x^2 - 3x + 4 = 0$

**33.** Sum of the deviations of the variable "X" from its mean is always

- A. Zero
- B. One
- C. Constant
- D. Same
- E. -

**34.**  $\sec^2 \theta =$

- A.  $1 - \sin^2 \theta$
- B.  $1 - \sin^2 \theta$
- C.  $1 + \tan^2 \theta$
- D.  $1 - \tan^2 \theta$
- E.  $1 + \cos^2 \theta$

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## **CA/GK**

**1. "Antarctica" is situated in the:**

- A. North Pole
- B. South Pole
- C. Eastern Hemisphere
- D. Western Hemisphere

**2. Sulaimanki, Islam, Punjab Headworks are constructed on river:**

- A. Beas
- B. Sutlej
- C. Jhelum
- D. Ravi

**3. An ailment that occurs recurrently in a specific geographical region is known as:**

- A. Pandemic
- B. Endemic
- C. Primary
- D. Chronic

**4. Who has been the chairman Senate of Pakistan during the year 2016?**

- A. Sabir Ali Baloch
- B. Syed Nayyar Hussain Bukhari
- C. Raza Rabbani
- D. Chaudhry Altaf Ahsan

**5. Which of the following countries launched world's first experimental quantum communication satellite "Micius" in July 2016?**

- A. United States
- B. United Kingdom
- C. Japan
- D. China

## **MATH/COMPUTER SCIENCE**

**6. The main unit of computer is:**

- A. CPU
- B. Input Unit
- C. Memory Unit
- D. Output Unit

**7. The device which provides display to computer users, is:**

- A. CPU
- B. Mouse
- C. Memory Unit
- D. Monitor

**8. The place where deleted files are stored in computer is:**

- A. Recycle Bin
- B. Sizing buttons
- C. Start button
- D. Taskbar

**9. Which one is an email address?**

- A. <http://vianet.com/index.htm>
- B. D:\\Email\\Standard
- C. [joesmart@billme.com](mailto:joesmart@billme.com)
- D. [Chaminade.org/teachers/mailaddresses](http://Chaminade.org/teachers/mailaddresses)

**10. How many characters can be typed in a single cell in Excel?**

- A. 256
- B. 1024
- C. 32,000
- D. 65,535

**11. Getting data from a cell located in a different Excel Sheet is called:**

- A. Accessing
- B. Referencing
- C. Updating
- D. Functioning

**P-16-2382-Q-BLUE-091016**

42. \_\_\_\_\_ is the packing of a data into single component.

- A. Inheritance
- B. Polymorphism
- C. Encapsulation
- D. Classes
- E. Functions

43. Why we prefer switches over hubs?

- A. Do not broadcast
- B. Create separate collision domains on each port
- C. Operates at layer 1
- D. Operates at layer 7
- E. A switch uses less electric power than a hub

44. Which of the following field plays an important role in TCP segment but is not required in UDP segment?

- A. Source Port
- B. Destination Port
- C. Data
- D. Window Size
- E. Checksum

45. Which of the following is not a TCP congestion-control scheme?

- A. Additive Increase
- B. Multiplicative Decrease Control
- C. Slow Start Method
- D. Fast Start Method
- E. Fast Retransmit Method

46. What is incorrect about Dynamic Routing Protocols?

- A. Dynamically share information between routers
- B. Automatically update routing table when topology changes
- C. Does not scale well in large networks
- D. Determine best path to a destination
- E. Maintaining up-to-date routing information

47. Connectionless and connection-oriented are most common types of \_\_\_\_\_ Networks.

- A. Cell-Switched
- B. Packet-Switched
- C. Circuit-Switched
- D. Asynchronous Transfer Mode
- E. Conventional Telephone

P-16-2382-Q-BLUE-091016

24. Nazim has Rs 120. He spends 25% of the amount. How much money is left with him?

- A. 70 rupees
- B. 60 rupees
- C. 80 rupees
- D. 90 rupees

25. The length and breadth of a rectangular field is "b cm" and "a cm" respectively. If Robina makes a round around it, find the distance covered by her.

- A.  $(2b + 2a)$  cm
- B.  $(b + a)$  cm
- C.  $(3b + 2a)$  cm
- D.  $(2b + 3a)$  cm

26. Simplify  $9^8 + 3^8$ :

- A.  $3^2$
- B.  $9^8$
- C.  $3^8$
- D.  $4^8$

27. Factorize  $49x^2 - 81y^2$ :

- A.  $(7x - 9y)(7x + 9y)$
- B.  $(8x - 7y)(7x + 9y)$
- C.  $(7x - 9y)(8x + 7y)$
- D.  $(7x - 8y)(9x + 9y)$

28. After 32 years from now, a boy will be 5 times as old as he was 8 years back. How old is the boy now?

- A. 16 years old
- B. 18 years old
- C. 20 years old
- D. 22 years old

29. Factorization of  $2ax + bx + 6ay + 3by$  yields:

- A.  $(2b + a)(x + 3y)$
- B.  $(2a + b)(3x + y)$
- C.  $(2a + b)(x + 3y)$
- D.  $(a + 2b)(x + 3y)$
- E.  $2(a + b)(x + y)$

P-16-2382-Q-BLUE-091016

41. The modulus of the sum of three mutually perpendicular unit vectors is:

- A. 3
- B.  $\sqrt{3}$
- C. 0
- D. 1

42. For what value of 'a' the magnitude of the vector  $ai + (a+1)j + (a-1)k$  is 2?

- A.  $\frac{2}{\sqrt{3}}$
- B.  $\frac{2}{3}$
- C.  $\frac{\sqrt{3}}{2}$
- D.  $\frac{3}{2}$

43. Find the  $\int \int \int_{0,0,0}^{5,4,2} dx dy dz$

- A. 20
- B. 40
- C. 8
- D. 10
- E. 35

44. Find the range of value of "a", if the function  $f(x) = x^2 + ax + 3x - 1$  is always increasing?

- A.  $[-3, 3]$
- B.  $(-3, 3)$
- C.  $(-\infty, -3)$
- D.  $(3, \infty)$
- E.  $(-\infty, \infty)$

P-16-2382-M-BLUE-091016

## MATH/COMPUTER SCIENCE

6. The main unit of computer is:

- A. CPU
- B. Input Unit
- C. Memory Unit
- D. Output Unit

7. The device which provides display to computer users, is:

- A. CPU
- B. Mouse
- C. Memory Unit
- D. Monitor

8. The place where deleted files are stored in computer is:

- A. Recycle Bin
- B. Sizing buttons
- C. Start button
- D. Taskbar

9. Which one is an email address?

- A. <http://vianet.com/index.htm>
- B. D:\\Email\\Standard
- C. joesmart@billme.com
- D. Chaminade.org/teachers/mailaddresses

10. How many characters can be typed in a single cell in Excel?

- A. 256
- B. 1024
- C. 32,000
- D. 65,535

11. Getting data from a cell located in a different Excel Sheet is called:

- A. Accessing
- B. Referencing
- C. Updating
- D. Functioning

P-16-2382-Q-BLUE-091016

24. Nazim has Rs 120. He spends 25% of the amount. How much money is left with him?

- A. 70 rupees
- B. 60 rupees
- C. 80 rupees
- D. 90 rupees

25. The length and breadth of a rectangular field is "b cm" and "a cm" respectively. If Robina makes a round around it, find the distance covered by her.

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- B.  $(b + a)$  cm
- C.  $(3b + 2a)$  cm
- D.  $(2b + 3a)$  cm

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- C.  $(2a + b)(x + 3y)$
- D.  $(a + 2b)(x + 3y)$
- E.  $2(a + b)(x + y)$

P-16-2382-Q-BLUE-091016

42. \_\_\_\_\_ is the packing of a data into single component.

- A. Inheritance
- B. Polymorphism
- C. Encapsulation
- D. Classes
- E. Functions

43. Why we prefer switches over hubs?

- A. Do not broadcast
- B. Create separate collision domains on each port
- C. Operates at layer 1
- D. Operates at layer 7
- E. A switch uses less electric power than a hub

44. Which of the following field plays an important role in TCP segment but is not required in UDP segment?

- A. Source Port
- B. Destination Port
- C. Data
- D. Window Size
- E. Checksum

45. Which of the following is not a TCP congestion-control scheme?

- A. Additive Increase
- B. Multiplicative Decrease Control
- C. Slow Start Method
- D. Fast Start Method
- E. Fast Retransmit Method

46. What is incorrect about Dynamic Routing Protocols?

- A. Dynamically share information between routers
- B. Automatically update routing table when topology changes
- C. Does not scale well in large networks
- D. Determine best path to a destination
- E. Maintaining up-to-date routing information

47. Connectionless and connection-oriented are most common types of \_\_\_\_\_ Networks.

- A. Cell-Switched
- B. Packet-Switched
- C. Circuit-Switched
- D. Asynchronous Transfer Mode
- E. Conventional Telephone

P-16-2382-Q-BLUE-091016

53. With which one of the following will you associate British Party?

- A. Baluchistan
- B. KPK
- C. Sind
- D. Punjab
- E. Gilgit Baltistan

54. Pakistan's "Five years Plan" started with the help of \_\_\_\_\_.

- A. USA
- B. UK
- C. Canada
- D. Saudi Arabia
- E. Sudan

55. The need for a greater international understanding is more today than ever because of the issue of \_\_\_\_\_ in the recent past.

- A. floods
- B. wars
- C. diseases
- D. terrorism
- E. Illiteracy

31. مرحوم ادیب کی وجہ شہرت میں نہ راموں کی بدولت ہے؟

- A. استیج
- B. ریشو
- C. شیوی
- D. کتابیں
- E. معاشرتی

32. "مردم دیدہ" کے خالوں کا موضوع کیا ہے؟

- A. لوگ
- B. اشخاص
- C. منظر
- D. احباب

33. یہ شعر کس صنف سے تعلق رکھتا ہے؟  
پینچا سے بر اک میے کش کیے الگی دور جام اسی کا  
کس کو شنے لے رکھنا اس سے لطف عالم اسی کا

- A. حمد
- B. نعت
- C. غزل
- D. نظم
- E. منقبت

34. "قطعہ تلامیں" کس فنِ تخلیق سے ہے؟

- A. انور مسعود
- B. انور مقصود
- C. ابن الشاء
- D. مستنصر حسین تاریخ
- E. انتظار حسین

35. میرانگی میراثی خلائق کا پہنچاں موضوع کیا ہے؟

- A. علم
- B. حوش
- C. اندھہ کنوار
- D. ایمه
- E. مدنگ

34. نقطہ "ایسا" سے بھاہ مزاد سے ۔

- A. وہی
- B. فرمدی
- C. کوئی
- D. کوئی نہیں
- E. نہیں

35. کس شاعر سے شعر سے بند ہو شاعری خارج فارسی سے اربو طرف موزا؟

- A. میر حسین
- B. نوق
- C. غائب
- D. نرد
- E. خان ارزو

36. کس کلاسیکی غزل کو کس غزل "واہ" کی علامت ہے؟

- A. نصرت شیخ
- B. ولی
- C. تشاٹھی
- D. سودا
- E. مظیر جان جاتی

37. اس شعر میں علم بیان کی کون سی خوبی سے

شمع کی ملتندی یہ اس بزم سے  
چشم نم اسے دامن نہ ہے۔

- A. کنایہ
- B. مجاز مرسل
- C. استعارہ
- D. تشییہ
- E. تصویریج

38. ہرات کی متلوں "بھر لفت" موضع کیا ہے؟

- A. عشق
- B. نصوف
- C. بھر
- D. تسبیح رست

46. جنہے کا مترادفات لفظ ہے۔

- A. الکتب
- B. ملکتب
- C. فنی
- D. نجوم

47. سنت امن نہیں تھیں۔ ہمیں تیرے پسلہ جل سکتا ہے۔

الساقیت گارست انسان گر عقبہ ہے۔  
امن شعر میں "الساقیا" اور "الذہبیا" — المدققہ بیہ

- A. منصفہ
- B. سے غافل
- C. مترافق
- D. تتمیحاتی

48. دبستر کوئی کھروں میں رہتے ہیں — شہروں میں —

ہر نوکلوں سے کھر تک یو تو سے سہ

- A. ٹھونک
- B. بند
- C. ورنہ
- D. جھک
- E. تک

49. حشرات الارض میں مراہ — میں

- A. جنور چڑیا سے
- B. جرم پرست
- C. بولنے پر لست
- D. بخوبے مکوئے

50. طلوب کا مکملہ میں

- A. نہیں
- B. حلیقت
- C. تعلیل
- D. تکلیل

## PEDAGOGY

56. The individual's development is usually studied in:

- A. Artificial separation context
- B. Historical context
- C. Bio-cultural context
- D. Environmental context

57. The quality possessed by the individual to generate products that are simultaneously original and adaptive is:

- A. Intelligence
- B. Creativity
- C. Ability
- D. Achievement

58. Headmaster is like a(n) \_\_\_\_\_

- A. officer
- B. leader
- C. labourer
- D. inspector

59. In the past the role of teacher was considered as:

- A. Facilitator
- B. Mentor
- C. Supervisor
- D. Information provider

60. The unit of teacher behavior which fulfills instructional roles with the students from moment to moment is:

- A. Strategy
- B. Method
- C. Approach
- D. Tactic

61. In participation of students in social activities their \_\_\_\_\_ should be taken care of.

- A. Weaknesses
- B. Likes and dislikes
- C. Background
- D. Intelligence

## PEDAGOGY

§1. the teachers' emphasis on thinking rather than behavior and active learning rather than passive are examples of:

- A. Behaviorism
- B. Neo-behaviorism
- C. Social learning
- D. Information processing

§2. The quality possessed by the individual to adapt rapidly to the situation can be best related to:

- A. Intelligence
- B. Creativity
- C. Aptitude
- D. Attitude

§3. Education is a process of bringing desirable change into:

- A. Behavior
- B. Conduct
- C. Character
- D. Social action

§4. The first consideration of planning a teaching session is:

- A. Teaching material
- B. Concerning outcomes
- C. AV aids
- D. Assessment tools

§5. The best objective of asking questions in the class is to:

- A. Keep students busy
- B. Maintain discipline
- C. Seek student's attention
- D. Startle the students
- E. Show his/her knowledge

§6. Evaluation is related to:

- A. Cognitive domain
- B. Affective domain
- C. Psychomotor domain
- D. Integrated domain
- E. Mechanical domain

## **CA/GK**

31. To reach the nadir means to reach \_\_\_\_\_

- A. The nearest point
- B. The highest point
- C. The lowest point
- D. The closest point

32. The main country in which the Shinto religion is practiced is:

- A. China
- B. India
- C. Japan
- D. Thailand
- E. Nepal

33. Who is Pope?

- A. Head of the Roman Catholic Church
- B. Head of the Protestants
- C. Head of the US Catholic Church
- D. Head of the English Church

34. Who is the champion of Cricket World Cup 2015?

- A. New Zealand
- B. Australia
- C. England
- D. India
- E. Pakistan

35. The operation launched against Chotu Gang in Rajanpur by  
Pakistan Army was named as:

- A. Zarb-e-Akb
- B. Zarb-e-Akhan
- C. Operation Rah-e-Rast
- D. Operation Rahe-Nijat
- E. Combing operation

## **CA/GK**

- 1. "Antarctica" is situated in the:**
  - A. North Pole
  - B. South Pole
  - C. Eastern Hemisphere
  - D. Western Hemisphere
  
- 2. Sulaimanki, Islam, Punjab Headworks are constructed on river:**
  - A. Beas
  - B. Sutlej
  - C. Jhelum
  - D. Ravi
  
- 3. An ailment that occurs recurrently in a specific geographical region is known as:**
  - A. Pandemic
  - B. Endemic
  - C. Primary
  - D. Chronic
  
- 4. Who has been the chairman Senate of Pakistan during the year 2016?**
  - A. Sabir Ali Baloch
  - B. Syed Nayyar Hussain Bukhari
  - C. Raza Rabbani
  - D. Chaudhry Aitzaz Ahsan
  
- 5. Which of the following countries launched world's first experimental quantum communication satellite "Micius" in July 2016?**
  - A. United States
  - B. United Kingdom
  - C. Japan
  - D. China

IN THE BOARD OF REVENUE BALOCHISTAN

**GENERAL KNOWLEDGE & PAKISTAN STUDIES**

Total Marks: 100

November 16, 2016 (2<sup>nd</sup> Session)

Time Allowed: 03 Hours

Note: Attempt all questions. (Write Q.No. in the Answer Book in accordance with this Question Paper)

**Q-1.** a) What is Twenty First Amendment in the Constitution of Pakistan? (8+6+4+2=20)  
b) Critically examine its significance for the country.

c) What was the background for making this amendment?

d) What is its sunset clause?

**Q-2.** Discuss Lahore Resolution and explain its historical significance. (15)

**Q-3.** Give short answers of any five of the following. (5x4=20)

- i. What was The Black Hole event?
- ii. What was operation grand slam?
- iii. What was U2 crisis?
- iv. What is CASA-1000 and how can it be helpful for Pakistan?
- v. What is DAESH / ISIS and IS/L? What is their ideology and belief?
- vi. What is balanced diet and why it is important?

**Q-4.** Give equivalent of following units used for land measurement. (1x15=15)

a) One acre =	sqft	b) One mile =	kms
c) One acre =	Gunta/ghanta	d) One mile =	furlongs
e) One Hectare =	sqft	f) One inch =	cm
g) One Hectare =	Acre	h) One Marla =	sqft
i) One sq meter	Sq ft	j) One kanal =	marla
k) One rood =	sq poles	l) One acre =	roods
m) One Chain =	rods	n) One mile =	Chains
o) One furlong =	rods		

**Q-5.** A) Answer the following: (Attempt all) (2+5+3+3+2=15)

- i. What were the real names of Abu Lahab and his wife?
- ii. Give names of five countries (except Pakistan) having currency name Rupee/Rupiah?
- iii. What is Capital, Population (2010 census) and %age of Muslims of Republic of Ghana?
- iv. What is Capital, Religion and Currency of Republic of Zambia?
- v. Write names of two Indus sites found in Afghanistan?

B) Write down the correct answers of any fifteen of the following. (1x15=15)

1. Which was the last military expedition led by Prophet Mohammad (ﷺ)?
2. In which Ghazwa, Hazrat Abu Bakr (RA) donated all his property?
3. What was the name of Indian who invented "zero"?
4. Sum of two numbers is 25 and their difference is 13. Find their product.
5. What is super moon?
6. What is the local name or meaning of Mohenjo-Daro?
7. Which city was the capital of Qutab-Ud-Din Aibak?
8. Among 97, 33, 45 & 72 which is not a prime number?
9. Average of 10 numbers is zero. At most how many numbers may be greater than zero?
10. A father is twice as old as his son. 20 years ago, the age of the father was 12 times the age of the son. The present age of the father (in years) is?
11. Find the number which when multiplied by 15 is increased by 196?
12. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of his son is?
13. Ten years ago, P was half of Q in age. If the ratio of their present ages is 3:4, what will be the total of their present ages?
14. When the famous Battle of Plassey was fought?
15. Who wrote biography of Mughal Emperor Humayun?
16. Under whose leadership was the All India Muslim League set up?
17. At what age Gautama Buddha renounced home?

Good Luck

99. Which part of the pistil serves as the conduit for the entry of pollen tube to reach ovary and the fertilized egg?

- A. thalamus
- B. ovary
- C. style
- D. stigma

100. Guanine and adenine are nitrogenous bases called:

- A. Pyrimidines
- B. Purines
- C. Nucleotides
- D. Porphyrins

94. The housecat is classified as *Felis domestica*. The name "Felix the Cat" is derived from which part of the scientific name?

- A. The name of the phylum
- B. The name of the class
- C. The name of the order
- D. The name of the genus
- E. The name of the species

95. Which of the following chemical formulas could represent a carbohydrate?

- A:  $C_6H_{12}O_6$
- B:  $C_3H_6O_3$
- C:  $C_6H_{12}O_3$
- D:  $C_5H_{10}O_{10}$
- E:  $CH_2O_4$

96. If the thymus gland is taken out in a three-year-old child, what problems will the child experience later in life?

- A. He will be prone to bacterial infections.
- B. He will be prone to viral and fungal infections.
- C. He will have dwarfism.
- D. He will have gigantism.

97. In a species of plants, a homozygous dominant red flower (RR) is crossed with a homozygous recessive yellow flower (rr). If the  $F_1$  generation is self-crossed and the  $F_2$  generation has a phenotype ratio of red: orange: yellow of 1:2:1, which event accounts for these results?

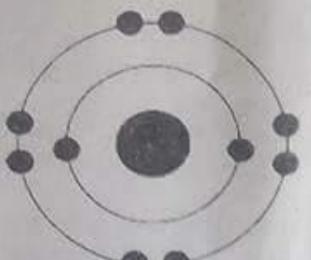
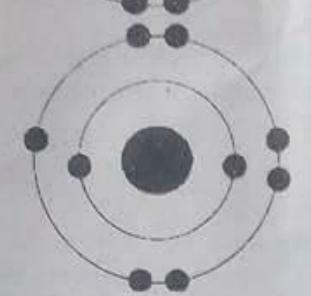
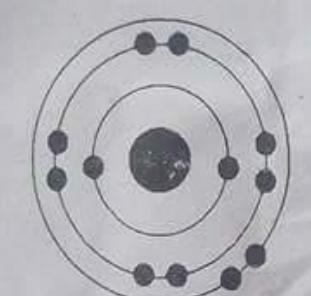
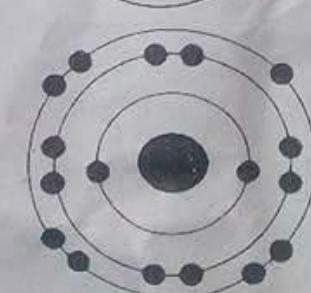
- A. Codominance
- B. Incomplete dominance
- C. Penetrance
- D. Expressivity

98. Two organisms live in close association with each other. One organism is helped by the association, whereas the other is neither helped nor harmed. Which of the following terms best describes this relationship?

- A. Mutualism
- B. Commensalism
- C. Symbiosis
- D. Parasitism
- E. Predator-prey relationship

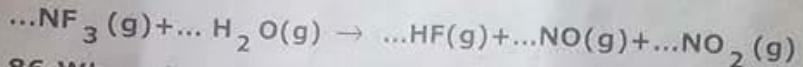
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84. Of the four atoms depicted here, which has the highest electron affinity?

- A. 
- B. 
- C. 
- D. 

85. Alloys are mixtures of pure metals in either the liquid or solid phase. Which of the following is usually true of alloys?

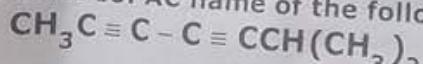
- A. The melting/freezing point of an alloy will be lower than that of either of the component metals, because the new bonds are stronger.
- B. The melting/freezing point of an alloy will be lower than that of either of the component metals, because the new bonds are weaker.
- C. The melting/freezing point of an alloy will be greater than that of either of the component metals, because the new bonds are weaker.
- D. The melting/freezing point of an alloy will be greater than that of either of the component metals, because the new bonds are stronger.



86. When the equation for the reaction above is balanced, how many moles of  $\text{NF}_3$  would be required to react completely with 6 moles of  $\text{H}_2\text{O}$ ?

- A. 0.5 mole
- B. 1 mole
- C. 2 moles
- D. 3 moles
- E. 4 moles

87. Write IUPAC name of the following compound:



- A. 6 methyl hepta-2,4 dyne
- B. methyl hepta-2,4 dyne
- C. 6 methyl hepta-1,4 dyne
- D. 6 methyl hepta-2,3 dyne
- E. 6 methyl hepta-3,4 dyne

88. In which of the following pair do both pollutants cause damage to buildings?

- A. Carbon monoxide and lead compounds
- B. Carbon monoxide and sulphur
- C. Lead compounds and nitrogen dioxide
- D. Nitrogen dioxide and sulphur dioxide

P-16-2382-R-WHITE-091016

89. Carboxylic acids have higher boiling points than the corresponding alcohols because:

- A. molecular weight is increased by the additional carboxyl group.
- B. the pH of the compound in solution is lower.
- C. acid salts are soluble in water.
- D. hydrogen bonding is much stronger than in alcohols.

90. Which of the following atoms has the largest second ionization energy?

- A. Silicon, Si
- B. Calcium, Ca
- C. Chlorine, Cl
- D. Iron, Fe
- E. Sodium, Na

91. Which of the following equations represents the process of photosynthesis?

- A. Carbon dioxide + water → glucose + oxygen + water
- B. Glucose + oxygen + water → Carbon dioxide + water
- C. Glucose + water → Carbon dioxide + water + oxygen
- D. Ammonia + water → glucose + oxygen + water
- E. Carbon + water → glucose + carbon dioxide + water

92. When the process of mitosis gives rise to two daughter cells, the number of chromosomes in each will be equal to:

- A. One half the number of chromosomes that were present in the parent cell
- B. The same number of chromosomes as were present in the parent cell
- C. Twice the number of chromosomes that were present in the parent cell
- D. Three times the number of chromosomes that were present in the parent cell
- E. Four times the number of chromosomes that were present in the parent cell

93. All of the following provide evidence for evolution except

- A. eugenics
- B. heredity
- C. comparative anatomy
- D. fossils
- E. vestigial structures

P-16-2382-R-WHITE-091016

SURVEY

79. The characteristics of alpha particles emitted from radioactive nuclei is that they:

- A. are sometimes negatively charged
- B. usually consists of electrons
- C. are helium nuclei
- D. are hydrogen nuclei
- E. are the ultimate unit of positive electricity

80. As the angle between two concurrent forces increases, the magnitude of their resultant:

- A. increases only
- B. decreases and then increases
- C. increases and then decreases
- D. remains the same
- E. decreases only

81. In the reaction,  $\text{SO}_2 + 2\text{H}_2\text{S} \rightarrow 3\text{S} + 2\text{H}_2\text{O}$ , the substance oxidized is:

- A.  $\text{H}_2\text{S}$
- B.  $\text{SO}_2$
- C. S
- D.  $\text{H}_2\text{O}$

82. The process of diffusion is very fast in:

- A. Solids
- B. Liquids
- C. Gases
- D. Covalent compounds
- E. Ionic compounds

83. Noble gases do not react with other elements because:

- A. They are not found in abundance
- B. They are monoatomic
- C. The sizes of their atoms are very small
- D. They have completely paired up and stable electron shells

75. When monochromatic light is refracted as it passes from air to glass, which of the following does not remain the same? (Assume that the wave is fully transmitted.)

- A. Wavelength
- B. Frequency
- C. Amplitude
- D. Period

76. The figure shown depicts a thick metal container with two compartments. Compartment A is full of a hot gas, while compartment B is full of a cold gas. What is the primary mode of heat transfer in this system?



- A. Radiation
- B. Convection
- C. Conduction
- D. Enthalpy
- E. None of the above

77. Which of the following statements is correct for a particle moving in a horizontal circle with constant angular velocity?

- A. The linear momentum is constant but the kinetic energy varies.
- B. The kinetic energy is constant but the linear momentum varies.
- C. Both kinetic energy and linear momentum are constant.
- D. Neither the linear momentum nor the kinetic energy is constant.
- E. The speed and the linear velocity are both constant.

78. If an object's mass and the net force it feels are both known, then Newton's Second Law could be used to directly calculate which quantity?

- A. Displacement
- B. Velocity
- C. Acceleration
- D. Linear momentum
- E. Kinetic energy

P-16-2382-R-WHITE-091016

17

## SUBJECT

71. Which pair includes a scalar quantity and a vector quantity, respectively?

- A. Kinetic energy and momentum
- B. Velocity and acceleration
- C. Weight and force
- D. Momentum and velocity

72. A girl produces a certain note when she blows gently into an organ pipe. If she blows into the pipe harder, the most probable change will be that the sound wave:

- A. will travel faster
- B. will have a higher frequency
- C. will have a greater amplitude
- D. will have a lower frequency
- E. will have a lower amplitude

73. If a stone at the end of a string is whirled in a circle, the inward pull of the string on the stone:

- A. is known as the centrifugal force
- B. is inversely proportional to the speed of the object
- C. is inversely proportional to the square of the speed
- D. is proportional to the speed
- E. is directly proportional to the square of the speed

74. Identify the instrument/s which is/are used for the measurement of resistance:

- I. Wheatstone Bridge
- II. Meter Bridge
- III. Post office Box
- IV. Ohmmeter

- A. I only
- B. I and II only
- C. II and III only
- D. III and IV only
- E. I, II, III and IV

60. If the daily wage of a person is increased by 15 %, he now gets Rs.92 per day. What was his daily wage before the increase?

- A. Rs.77
- B. Rs.107
- C. Rs.80
- D. Rs.72

## PEDAGOGY

61. In making progress from one moment to the next during a lesson, a set of events takes place, this set of events is known as:

- A. Learning
- B. Lesson Plan
- C. Sequence of learning
- D. Instruction

62. Teachers use assessment to develop and support students meta-cognitive skills, this is named as:

- A. Assessment of learning
- B. Assessment as learning
- C. Assessment in learning
- D. Assessment for learning

63. Enquiry-based learning starts by problems or scenarios rather than simply presenting established facts. The process is often assisted by a facilitator who:

- A. Presents the facts
- B. Provides the allied material
- C. Poses the questions
- D. Portrays a smooth path to knowledge

64. A successful teaching strategy in which small teams, each with students of different levels of ability use variety of learning activities to improve their understanding of a subject. Each member of a team is responsible not only for learning what is taught but also for helping teammates learning thus creating an atmosphere of achievement is:

- A. Problem Solving Method
- B. Group discussion Method
- C. Project Method
- D. Cooperative Learning Technique
- E. Scientific Method

65. The terminology of "Think -pair -share" is linked with:

- A. Experiential learning
- B. Deliberate learning
- C. Problem based learning
- D. Active learning

66. Which of the following is probable disadvantage of group work:

- A. New Method
- B. Quick decision making
- C. Unequal Participation
- D. Information Exchange

67. Which of the following school of thought considers the purpose of learning as full participation in communities of practice and utilization of resources?

- A. Behaviorist school of thought
- B. Cognitivist cum structuralist
- C. Humanist cum classical
- D. Social and situational

68. A method that is based on the principle of "Learning by doing" and without which speed and accuracy in mathematics cannot be possible is named as:

- A. Drill method
- B. Discussion method
- C. Heuristic method
- D. Project method
- E. Decision method

69. \_\_\_\_\_ is a group creativity technique that was designed to generate a large number of ideas for the solution of a problem.

- A. Group Discussion
- B. Peer Group instructions
- C. Brain Storming
- D. Project based teaching
- E. Multimedia presentation

70. Evaluation during the course of curriculum planning that aims at contributing the improvement of educational program is called:

- A. diagnostic evaluation
- B. summative evaluation
- C. formative evaluation
- D. placement evaluation
- E. general evaluation

44. A fruit salad has apples, bananas, and grapes in a ratio of 5 to 2 to 9. If a total of 128 pieces of fruit are in the salad, how many grapes were used?

- A. 8
- B. 10
- C. 45
- D. 56
- E. 72

45. It takes 10 people 16 hours to complete a certain job. How many hours would it take 8 people, working at the same rate, to complete the job?

- A. 12
- B.  $12\frac{4}{5}$
- C. 15
- D. 16
- E. 20

46. If  $A = B/5$  and  $10A = 14$ , then  $B = ?$

- A. 2
- B. 5
- C. 7
- D. 14
- E. 28

47. Lubna is 15 years old and her father is 40. How many years ago was the father six times as old as Lubna?

- A. 4 years
- B. 5 years
- C. 6 years
- D. 10 years
- E. 15 years

48. On a certain planet, if each year has 9 months and each month has 15 days, how many full years have passed after 700 days on this planet?

- A. 1
- B. 2
- C. 3
- D. 5
- E. 7

49.  $24\% \text{ of } 2 = ?$

- A. 0.48
- B. 0.50
- C. 0.20
- D. 0.24

50. A motorist travels 90 miles at rate of 20 miles per hour. If he returns the same distance at a rate of 40 miles per hours, what is the average speed for the entire trip, in miles per hour?

- A. 20
- B.  $\frac{65}{3}$
- C.  $\frac{80}{3}$
- D. 30
- E.  $\frac{130}{3}$

51. What is the circumference of a circle with radius 16?

- A.  $\frac{8}{\pi}$
- B.  $\frac{16}{\pi}$
- C.  $8\pi$
- D.  $16\pi$
- E.  $32\pi$

52. If  $x^a \cdot x^b = 1$  and  $x \neq \pm 1$ , then  $a + b = ?$

- A. x
- B. -1
- C. 0
- D. 1
- E. 2

53. Ten years ago, Mohsin was thrice as old as Rabia was but 10 years hence, he will be only twice as old. Find Mohsin's present age.

- A. 60 years
- B. 80 years
- C. 70 years
- D. 76 years

54. If  $8 \times 8 = 4^x$ , what is  $x$ ?

- A. 2
- B. 3
- C. 4
- D. 5
- E. 6

55. In order to graduate, a boy needs an average of 65 percent for his five major subjects. His first four grades were 55, 60, 65, and 65. What grade does he need in the fifth subject in order to graduate?

- A. 65
- B. 70
- C. 75
- D. 80

56. Which of the following is closest to the square root of  $\frac{1}{2}$ ?

- A. 0.25
- B. 0.5
- C. 0.6
- D. 0.7
- E. 0.8

57. If  $7x - y = 23$  and  $7y - x = 31$ ,  $x + y = ?$

- A. 6
- B. 7
- C. 8
- D. 9

58. If  $x = \frac{1}{9}$ , then  $\sqrt{x} - x^2 = ?$

- A. 0
- B. 1/9
- C. 26/81
- D. 1/3
- E. 1

59. If Bilal can type 3 pages in 50 minutes, how many pages can he type in 5 hours?

- A. 16
- B. 17
- C. 18
- D. 19

40. A square with sides of length 3 is intersected by a line at S and T. What is the maximum possible distance between S and T?

- A.  $\sqrt{6}$
- B.  $2\sqrt{3}$
- C.  $3\sqrt{2}$
- D.  $2\sqrt{5}$
- E. 9

41. The perimeter of a right triangle is 90 cm and its area is  $180\text{cm}^2$ . find its hypotenuse?

- A. 40cm
- B. 26cm
- C. 39cm
- D. 41cm

42. Find the area and perimeter of right triangle with base 3cm and height 4 cm?

- A.  $P = 12\text{cm}, a = 8\text{cm}^2$
- B.  $P = 14\text{cm}, a = 6\text{cm}^2$
- C.  $P = 16\text{cm}, a = 10\text{cm}^2$
- D.  $P = 12\text{cm}, a = 6\text{cm}^2$

43. If 3 miles are equivalent to 4.83 kilometers, then 11.27 kilometers are equivalent to how many miles?

- A.  $7\frac{1}{3}$
- B.  $2\frac{1}{3}$
- C.  $\frac{7}{5}$
- D.  $\frac{5}{7}$
- E.  $6\frac{1}{2}$

35. A team has won 60 percent of the 20 games it has played so far this season. If the team plays a total of 50 games all season and wins 80 percent of the remaining games, how many games will the team win for the entire season?

- A. 30
- B. 32
- C. 36
- D. 40

36. The value of  $a - b - \sqrt{(a - b)^2}$  is equal to:

- A.  $2b$
- B.  $-2b$
- C. 0, for all values of  $a$  and  $b$
- D. 0, only when  $a > b$
- E.  $2(a - b)$

37. Printer A can complete a 50-page manuscript in 12 minutes. How many pages would be completed in 3 minutes?

- A.  $12\frac{1}{2}$
- B.  $20\frac{4}{7}$
- C. 24
- D. 42
- E. 10

38. If  $4^{2a+3} = 4^{a-1}$ , then  $a = ?$

- A. -9
- B. -4
- C. -2
- D. 4
- E. 8

39. If  $y = \frac{2x^3 + x^4}{x^5}$ , what is the value of  $y$ , if  $x=1$ ?

- A. 15
- B. 55
- C. 62
- D. 3
- E. 30

P-16-2382-R-WHITE-091016

## MATH

31. If  $x^2 - 9 < 0$ , which of the following is true?

- A.  $x < -3$
- B.  $x > 3$
- C.  $x > 9$
- D.  $x < -3$  or  $x > 3$
- E.  $-3 < x < 3$

32. "m" is equal to the square of "t". what is the value of m when t = 2?

- A. 4
- B. 14
- C. 7
- D.  $3\frac{1}{2}$
- E. 2

33. A census shows that on a certain block the number of children in each family is 3, 4, 4, 0, 1, 2, 0, 2, and 2, respectively. Find the average number of children per family.

- A. 2
- B.  $2\frac{1}{2}$
- C. 3
- D. 4

34. 30 students had an average of  $x$ , while 20 students had an average of 80. The average for the entire group is:

- A.  $\frac{x + 80}{50}$
- B.  $\frac{x + 80}{2}$
- C.  $\frac{50}{x + 80}$
- D.  $\frac{3}{5}x + 32$
- E.  $\frac{30x + 80}{50}$

24. Mr. Akbar said, "I have finished my work."

- A. Mr. Akbar said that he had finished his work.
- B. Mr. Akbar said that he finished his work.
- C. Mr. Akbar said that I had finished his work.
- D. Mr. Akbar said that he has finished his work.
- E. Mr. Akbar said that I have finished his work.

25. Ahmed said that the early bird catches the worm.

- A. Ahmed said, "The early bird caught the worm."
- B. Ahmed said, "The early bird catches the worm."
- C. Ahmed says, "The early bird caught the worm."
- D. Ahmed will say, "The early bird catches the worm."

Questions 26-30 are based on the following passage.

Every individual has his value. He has virtues and qualities. Which need appreciation by those who come in his contact. A true appreciation has to be impartial and unbiased but while evaluating a person, there is nothing wrong in offering just praise. Just praise is only a debt and it should be duly paid at the right moment. If it is not paid, the debt stands and the person not praised feels offended.

Flattery is, however, a different phenomenon. It is more on the plus side than just an equation of a personality. By its very definition it connotes something beyond deserving. It is, however, relished by the person to whom it is tendered. When a person is given a praise beyond what he deserves, he naturally relishes such an appreciation. This is called flattery. Since it is offered when it is not obligatory on the part of a person offering it, it is termed as present. In day-to-day human relations, flattery plays an important part. It wins new friends and deepens old friendships. One most beautiful thing about flattery is that it does not cost in financial terms, yet as a present it is as valuable as any, precious gift of kind. Sweet words, appropriately used, go a long way in building friendly relations.

Thus our social behaviour when guided by the advice tendered in the statement of this paragraph is likely to make us popular. We are obliged to appreciate the good points of our friends and relations but if we present them with flattering words, even if they are beyond what they deserve, we are gainers in human relations.

26. According to the writer "just praise" is:

- A. a debt which should be paid at every moment
- B. a true appreciation which is impartial and unbiased
- C. offered to offend someone
- D. none of the above

P-16-2382-R-WHITE-091016

5

27."Flattery" in the passage means:

- A. praising beyond what someone deserves
- B. is better than appreciation
- C. is same as appreciation
- D. is a good quality

28.Every man has got virtues for which:

- A. he needs appreciation
- B. he doesn't need appreciation
- C. he needs flattery
- D. none of the above

29.According to the passage, praise is debt and flattery is:

- A. love
- B. hatred
- C. good
- D. gift

30.In building friendship, "sweet words":

- A. are helpful
- B. are dangerous
- C. are most essential
- D. are not at all required

**18.FOOD: NOURISH::**

- A. organ: secrete
- B. fluids: circulate
- C. cells: degenerate
- D. antibodies: protect
- E. fats: saturate

**19.FOOLPROOF: FAIL::**

- A. translucent: filter
- B. viscous: smear
- C. volatile: explode
- D. airtight: leak
- E. taut: break

**Change the voice of the following. (Active & passive voice)**

**20.The doctor treated the patient.**

- A. The patient being treated by the doctor.
- B. The patient is being treated by the doctor.
- C. The patient was being treated by the doctor.
- D. The patient is treated by the doctor.
- E. The patient was treated by the doctor.

**21.He will buy a ticket.**

- A. A ticket will be bought by him.
- B. A ticket will be being bought by him.
- C. A ticket would be bought by him.
- D. A ticket shall be bought by him.
- E. A ticket would have been bought by him.

**22.Obey your teachers.**

- A. Let your teachers obeyed.
- B. Let your teachers be obeyed.
- C. Let us your teachers obeyed.
- D. Your teachers be obeyed.

**Change the narration of the following (Direct & indirect speech)**

**23.He said to me. "Do you study at night?"**

- A. He asked me if you studied at night.
- B. He asked me if I study at night.
- C. He asked me if I studied at night.
- D. He asked me if you study at night.
- E. He asked me that I studied at night.

P-16-2382-R-WHITE-091016

4

**12.ERUDITE:**

- A. professional
- B. immature
- C. unimaginative
- D. learned
- E. ignorant

**13.HAPLESS:**

- A. unlucky
- B. kind
- C. helpful
- D. futile

**14.BROCHURE:**

- A. opening
- B. pamphlet
- C. censor
- D. pin

**15.CHIDE:**

- A. unite
- B. fear
- C. record
- D. scold

Five lettered pairs (A to E) follow a related pair of words given in capitals. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capitals.

**16.PEDIATRICS: CHILDREN::**

- A. dermatology: skin
- B. pathology: medicine
- C. meteorology: forecasts
- D. neurology: psychologists
- E. ecology: environmentalists

**17.CREASE: FOLDING::**

- A. serration: braiding
- B. hole: perforating
- C. dent: weakening
- D. break: setting
- E. scratch: cracking

P-16-2382-R-WHITE-091016

## CURRENT AFFAIRS/ G

86. When your blood glucose levels decrease and you experience an unpleasant sensation, it means \_\_\_\_\_.

- A. Your blood pressure is high
- B. You need insulin
- C. You are hungry
- D. You are going to vomit
- E. You are healthy

87. In the context of social vulnerability, the morale of a person relates to:

- A. livelihood
- B. self protection
- C. initial well being
- D. social protection

88. The teachings of \_\_\_\_\_ emphasize upon values such as human dignity, social justice, helping the needy, and integrity and thus promoting tolerance.

- A. Culture
- B. Religion
- C. Philosophy
- D. Psychology

89. First Marshal law in Pakistan was imposed on:

- A. 1958
- B. 1968
- C. 1955
- D. 1962
- E. 1948

90. In 1988, Benazir Bhutto was elected as the first woman prime minister in the \_\_\_\_\_.

- A. World
- B. Asia
- C. Muslim World
- D. Western World

91. Khilafat Movement was a political protest campaign launched in India during the:

- A. 1910s
- B. 1920s
- C. 1930s
- D. 1940s

P-16-2304-M-PINK-180316

92. Hifl-al-Fudul was a:

- A. Battle
- B. Dispute
- C. Boycott
- D. Tradition
- E. Treaty

93. When was Hazrat Umer(RA) martyred?

- A. 21st Hijrah
- B. ✓ 23rd Hijrah
- C. 25th Hijrah
- D. 27th Hijrah

94. The main reason for the battle of Tabook was:

- A. Mischief of Christians
- B. Mischief of Jews
- C. ✓ Mischief of Romans
- D. Mischief of Buddhist

95. The second largest world water source is:

- A. Ocean
- B. ✓ Ice caps and Glaciers
- C. Under ground water
- D. Lakes

96. Global warming and sunscreen effect is:

- A. One and the same thing
- B. ✓ Contrast to each other
- C. Enhancing each other
- D. Both A and C

97. Burning of which of the following fuels produces the least amount of  $CO_2$  per unit of energy?

- A. Coal
- B. Oil
- C. ✓ Natural gas
- D. Wood

P-16-2304-M-PINK-180316

23

75.  $\int_1^2 e^x \left( \frac{1}{x} - \frac{1}{x^2} \right) dx = ?$

$$\int_1^2 e^x \left( \frac{1}{x} - \frac{1}{x^2} \right) dx$$

$$= \left[ e^x \ln x - \frac{e^x}{x} \right]_1^2$$

$$= \frac{1}{2} \left( e^2 \frac{1}{2} - e^1 \right)$$

$$= \frac{1}{2} \left( e^2 - e^1 \right)$$

- A.  $\frac{e^2}{2} + e$
- B.  $\frac{e^2}{2} - e$
- C.  $e - \frac{e^2}{2}$
- D.  $e^2 - e$

76. For an experiment laid in Latin square design with 5 treatments, then the error in degree of freedom will be:

- A. 20
- B. 18
- C. 16
- D. 12
- E. 8

77. Corner points of feasible region of:

$$\text{Max : } f(x_1, x_2) = 3x_1 + 2x_2$$

subject to

$$\begin{cases} x_1 + x_2 \leq 4 \\ -x_1 + x_2 \leq 1, \\ x_1, x_2 \geq 0 \end{cases}$$

are

- A.  $(0, 1), (3/2, 5/2), (4, 0)$
- B.  $(0, -1), (3/2, 5/2), (-4, 0)$
- C.  $(1, 0), (3/2, 5/2), (4, 0)$
- D.  $(0, 1), (-3/2, 5/2), (4, 0)$

54. The lunch was enjoyed by the guests.

- A. The guests enjoyed the lunch.
- B. The guests were enjoying the lunch.
- C. The guests will enjoy the lunch.
- D. The guests enjoy the lunch.

55. The photographer will take photographs of the wedding.

- A. The photographs of wedding will taken by the photographer.
- B. The photographs of wedding was taken by the photographer.
- C. The photographs of wedding be taken by the photographer.
- D. Photographs of wedding will be taken by the photographer.
- E. The photographs of wedding is taken by the photographer.

Change the narration of the following (Direct & Indirect speech)

56. The teacher said, "One should respect the feelings of others."

- A. The teacher advises that one should respect the feelings of others.
- B. The teacher advised that one should be respect the feelings of others.
- C. The teacher advised that one should respect the feelings of others.
- D. The teacher advised that one respect the feelings of others.

57. The tortoise exclaimed with joy that he had won the race.

- A. The tortoise said, "I won the race."
- B. The tortoise said, "Hurrah! I win the race."
- C. The tortoise said, "Hurrah! I had won the race."
- D. The tortoise said, "I had won the race."
- E. The tortoise said, "Hurrah! I won the race."

58. "Jawad thinks that stick is neat," he said.

- A. He said that Jawad thought that stick was neat.
- B. He said that Jawad thinks that stick was neat.
- C. He said that Jawad thought that stick is neat.
- D. He said that Jawad thought that stick neat.

6. There are 2575 chicks and 1323 hens in a poultry farm. How many more chicks are there than hens?

- A. 1252
- B. 1152
- C. 1352
- D. 1452

7. A student solves 36 questions of mathematics every day. How many questions did he solve in 7 days?

- A. 42
- B. 216
- C. 242
- D. 252

8. Two bags of flour together weigh 125kg-32gm, if the weight of one bag is 62kg-500gm. What is the weight of other bag?

- A. 62kg-532gm
- B. 63kg
- C. 63kg-825gm
- D. 64kg

9. Which of the following closed figure has no side?

- A. Triangle
- B. Square
- C. Circle
- D. Rectangle

10. Find the perimeter of a rectangle whose length is 8 cm and breadth is 4 cm?

- A. 24cm
- B. 12cm
- C. 32cm<sup>2</sup>
- D. 24cm<sup>2</sup>

11. If the length of a sea turtle is directly proportional to its age, and a 2-year old sea turtle is 3 inches long, how many feet long is an 80-year old sea turtle?

- A. 10
- B. 12
- C. 100
- D. 120
- E. 144

16-2382-A 1-PINK-091016

12. Simplify:

$$4 \times [0.7 + [1.6 + 3.8 - (1.1 \times 0.75)]]$$

- A. 19
- B. 19.1
- C. 20
- D. 20.1
- E. 21.1

13. Convert  $40^{\circ}\text{C}$  in Fahrenheit.

- A.  $100^{\circ}\text{F}$
- B.  $102^{\circ}\text{F}$
- C.  $104^{\circ}\text{F}$
- D.  $105^{\circ}\text{F}$

14. Ratio of milk to water is 4:1, if there are 8 litres of milk then find volume of water in it?

- A. 2 litres
- B. 4 litres
- C. 6 litres
- D. 8 litres

15. An angle whose measure is greater than  $180^{\circ}$  but less than  $360^{\circ}$  is called:

- A. Acute angle
- B. Obtuse angle
- C. Complete angle
- D. Reflex angle
- E. Right angle

16. Find the expenditure of carpeting a room of 5 meters length and 4 meters width at a rate of Rs.100 per meters square?

- A. Rs.1000
- B. Rs.1500
- C. Rs.2000
- D. Rs.4000

17. The number of times a value occurs in a data is called \_\_\_\_\_ of the value.

- A. Mean
- B. Median
- C. Frequency
- D. Range

P-16-2382-A 1-PINK-091016

## MATH

1. What is the place value of '7' in number 75234?
  - A. Ones
  - B. Tens
  - C. Hundreds
  - D. Thousands
  - E. Tens thousands
2. There are 665 male voters and 335 female voters in a village. What is the percentage of male voters in the village?
  - A. 66.5
  - B. 33.5
  - C. 50.5
  - D. 45.5
3. A room is 8 meters long and 6 meters wide. The floor of the room is to be paved with square tiles. What should be the maximum length of the tile to be used?
  - A. 1m
  - B. 2m
  - C. 4m
  - D. 6m
  - E. 8m
4. Find the least number so that when it is divided by 10, 12, 16 and 18 leaves zero as remainder?
  - A. 520
  - B. 620
  - C. 720
  - D. 820
5. If  $\frac{5}{2}$  of the work is completed in 15 days. How much work will be done in one day?
  - A.  $\frac{75}{2}$
  - B.  $\frac{1}{6}$
  - C.  $\frac{2}{75}$
  - D.  $\frac{6}{75}$

P-16-2382-A 1-PINK-091016

.71. مسلک کا مطلب ہے:

- A پندرہ زمین
- B سترہ
- C پانچ تھیس والا
- D پانچ ترائیس والا

.72. حکمت کا مطلب ہے:

- A ای شرم
- B خیرت مدلل
- C ای عرضی
- D ذلت
- E غربت

.73. وید کا منضد ہے:

- A بروشن
- B کمان
- C شک
- D بقین

.74. جہنجھلانا کا منضد ہے:

- A مطمین بونا
- B غفت کھاتا
- C خطا بونا
- D بے چمن بونا

.75. مطلب نکل جائے کیے بعد لوگ — کی طرح انکھیں بھر لئے

- بیعنی:
- A تو
  - B نومزی
  - C طوطے
  - D کیوں
  - E کوئے

## URDU

غريب .66

فانہ مرنے ہیں۔

- میں A
- کی B
- کے C
- نے D
- کو E

.67

بچہ — میں ڈھنڈوارا شیر میں۔

- بانہ A
- سانہ B
- پنل C
- گود D
- پڑوس E

.68.

گرائمر کی رو سے لا بور ہے۔

- A. اسم نکرہ
- B. اسم معرفہ
- C. فعل
- D. امدادی فعل

.69.

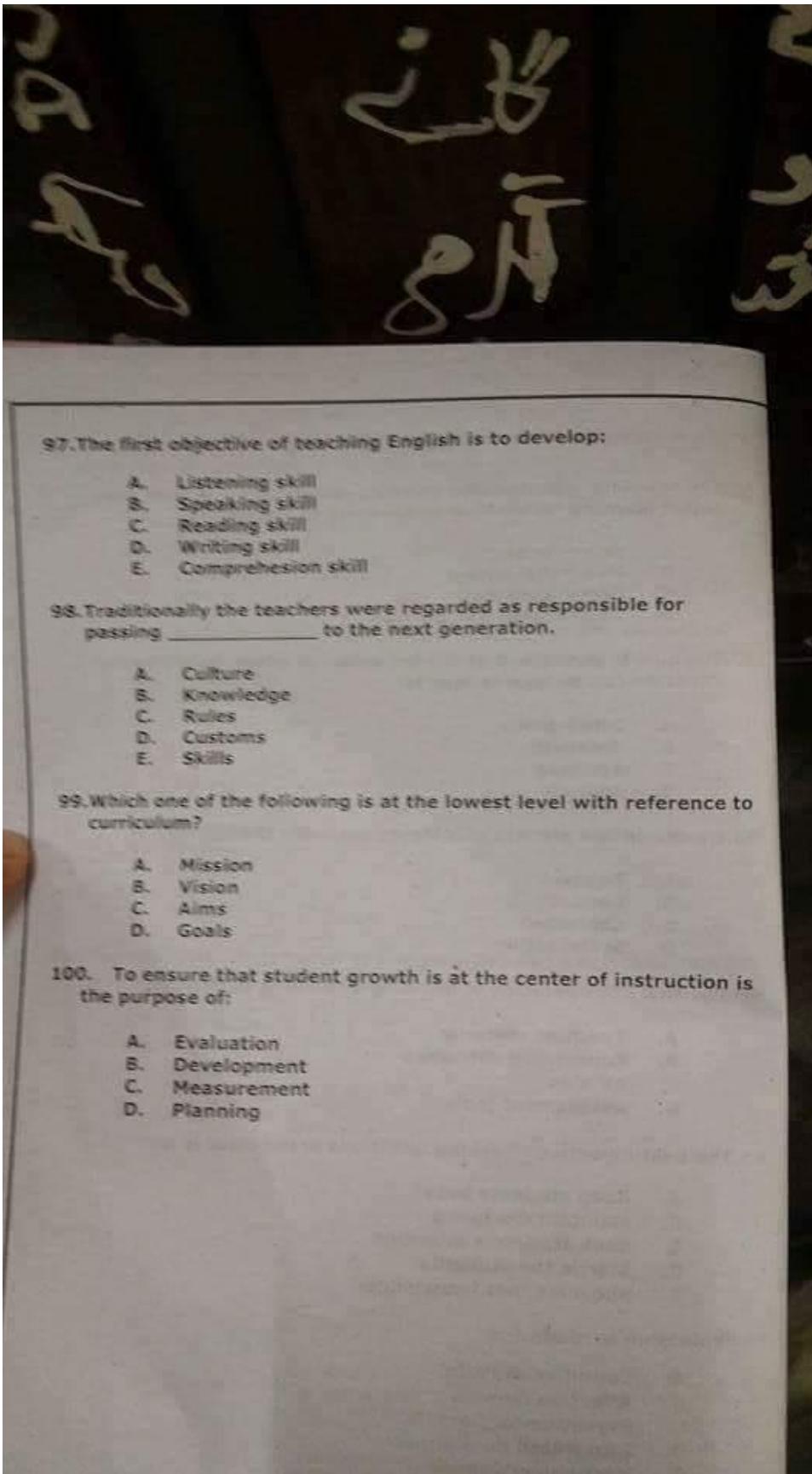
کیوں کیسے کب، اسم نکرہ کیسے مطابق ہے ہیں۔

- A. اسم معرفہ
- B. اسم جامد
- C. اسم استفهام
- D. اسم ذات

.70.

غزل کا پہلا مصروعہ جس کے دونوں مصروفے ہم قافیہ اور ہم ردیف  
ہوں گے لانا ہے۔

- A. پہلا مشعر
- B. مطلع
- C. مکھڑا
- D. مقطع



97. The first objective of teaching English is to develop:

- A. Listening skill
- B. Speaking skill
- C. Reading skill
- D. Writing skill
- E. Comprehension skill

98. Traditionally the teachers were regarded as responsible for passing \_\_\_\_\_ to the next generation.

- A. Culture
- B. Knowledge
- C. Rules
- D. Customs
- E. Skills

99. Which one of the following is at the lowest level with reference to curriculum?

- A. Mission
- B. Vision
- C. Aims
- D. Goals

100. To ensure that student growth is at the center of instruction is the purpose of:

- A. Evaluation
- B. Development
- C. Measurement
- D. Planning

## PEDAGOGY

91. The teachers' emphasis on thinking rather than behavior and active learning rather than passive are examples of:

- A. Behaviorism
- B. Neo-behaviorism
- C. Social learning
- D. Information processing

92. The quality possessed by the individual to adapt rapidly to the situation can be best related to:

- A. Intelligence
- B. Creativity
- C. Aptitude
- D. Attitude

93. Education is a process of bringing desirable change into:

- A. Behavior
- B. Conduct
- C. Character
- D. Social action

94. The first consideration of planning a teaching session is:

- A. Teaching material
- B. Concerning outcomes
- C. AV aids
- D. Assessment tools

95. The best objective of asking questions in the class is to:

- A. Keep students busy
- B. Maintain discipline
- C. Seek student's attention
- D. Startle the students
- E. Show his/her knowledge

96. Evaluation is related to:

- A. Cognitive domain
- B. Affective domain
- C. Psychomotor domain
- D. Integrated domain
- E. Mechanical domain

16-2382-A 1-PINK-091016

## SCIENCE

21. During respiration we take \_\_\_\_\_ into the lungs and exhale \_\_\_\_\_ to the atmosphere.

- A. Oxygen ... nitrogen
- B. Oxygen ... carbon dioxide
- C. Carbon dioxide ... Oxygen
- D. Carbon dioxide ... nitrogen

22. Which of the following is non-biodegradable?

- A. Grass clippings
- B. Feather
- C. Styrofoam
- D. Paper

23. Matter has how many states?

- A. 2
- B. 3
- C. 4
- D. 5
- E. 6

24. An animal has legs, skeleton and segmented body but lacks backbone and gills. To which of the following does it belong?

- A. Bacteria
- B. Algae
- C. Vertebrates
- D. Invertebrates

25. In Fahrenheit scale, the freezing point of water is \_\_\_\_\_ and boiling point of water is \_\_\_\_\_.

- A. 0°F ... 100°F
- B. 32°F ... 212°F
- C. 50°F ... 150°F
- D. -273°F ... 273°F

26. When light source is far away from the object, the shadow formed is:

- A. Equal in size to the object
- B. Smaller in size than the object
- C. Bigger in size than the object
- D. Double in size than the object

P-16-2382-A 1-PINK-091016

6. There are 2575 chicks and 1323 hens in a poultry farm. How many more chicks are there than hens?

- A. 1252
- B. 1152
- C. 1352
- D. 1452

7. A student solves 36 questions of mathematics every day. How many questions did he solve in 7 days?

- A. 42
- B. 216
- C. 242
- D. 252

8. Two bags of flour together weigh 125kg-32gm, if the weight of one bag is 62kg-500gm. What is the weight of other bag?

- A. 62kg-532gm
- B. 63kg
- C. 63kg-825gm
- D. 64kg

9. Which of the following closed figure has no side?

- A. Triangle
- B. Square
- C. Circle
- D. Rectangle

10. Find the perimeter of a rectangle whose length is 8 cm and breadth is 4 cm?

- A. 24cm
- B. 12cm
- C. 32cm<sup>2</sup>
- D. 24cm<sup>2</sup>

11. If the length of a sea turtle is directly proportional to its age, and a 2-year old sea turtle is 3 inches long, how many feet long is an 80-year old sea turtle?

- A. 10
- B. 12
- C. 100
- D. 120
- E. 144

16-2382-A 1-PINK-091016

12. Simplify:

$$4 \times [0.7 + [1.6 + 3.8 - (1.1 \times 0.75)]]$$

- A. 19
- B. 19.1
- C. 20
- D. 20.1
- E. 21.1

13. Convert  $40^{\circ}\text{C}$  in Fahrenheit.

- A.  $100^{\circ}\text{F}$
- B.  $102^{\circ}\text{F}$
- C.  $104^{\circ}\text{F}$
- D.  $105^{\circ}\text{F}$

14. Ratio of milk to water is 4:1, if there are 8 litres of milk then find volume of water in it?

- A. 2 litres
- B. 4 litres
- C. 6 litres
- D. 8 litres

15. An angle whose measure is greater than  $180^{\circ}$  but less than  $360^{\circ}$  is called:

- A. Acute angle
- B. Obtuse angle
- C. Complete angle
- D. Reflex angle
- E. Right angle

16. Find the expenditure of carpeting a room of 5 meters length and 4 meters width at a rate of Rs.100 per meters square?

- A. Rs.1000
- B. Rs.1500
- C. Rs.2000
- D. Rs.4000

17. The number of times a value occurs in a data is called \_\_\_\_\_ of the value.

- A. Mean
- B. Median
- C. Frequency
- D. Range

P-16-2382-A 1-PINK-091016

## MATH

1. What is the place value of '7' in number 75234?
  - A. Ones
  - B. Tens
  - C. Hundreds
  - D. Thousands
  - E. Tens thousands
2. There are 665 male voters and 335 female voters in a village. What is the percentage of male voters in the village?
  - A. 66.5
  - B. 33.5
  - C. 50.5
  - D. 45.5
3. A room is 8 meters long and 6 meters wide. The floor of the room is to be paved with square tiles. What should be the maximum length of the tile to be used?
  - A. 1m
  - B. 2m
  - C. 4m
  - D. 6m
  - E. 8m
4. Find the least number so that when it is divided by 10, 12, 16 and 18 leaves zero as remainder?
  - A. 520
  - B. 620
  - C. 720
  - D. 820
5. If  $\frac{5}{2}$  of the work is completed in 15 days. How much work will be done in one day?
  - A.  $\frac{75}{2}$
  - B.  $\frac{1}{6}$
  - C.  $\frac{2}{75}$
  - D.  $\frac{6}{75}$

P-16-2382-A 1-PINK-091016

12. Simplify:

$$4 \cdot [0.7 \cdot (1.6 + 3.8 - (1.1 \cdot 0.75))]$$

- A. 19
- B. 19.1
- C. 20
- D. 20.1
- E. 21.1

13. Convert  $40^{\circ}\text{C}$  in Fahrenheit.

- A.  $100^{\circ}\text{F}$
- B.  $102^{\circ}\text{F}$
- C.  $104^{\circ}\text{F}$
- D.  $105^{\circ}\text{F}$

14. Ratio of milk to water is 4:1. If there are 8 litres of milk then find volume of water in lit?

- A. 2 litres
- B. 4 litres
- C. 6 litres
- D. 8 litres

15. An angle whose measure is greater than  $180^{\circ}$  but less than  $360^{\circ}$  is called:

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- A. Rs. 1000
- B. Rs. 1500
- C. Rs. 2000
- D. Rs. 4000

17. The number of times a value occurs in a data is called \_\_\_\_\_ of the value.

- A. Mean
- B. Median
- C. Frequency
- D. Range

P-10-2382-A 1-PINK-091016

6. There are 2575 chicks and 1333 hens in a poultry farm. How many more chicks are there than hens?
- A. 1252
  - B. 1152
  - C. 1353
  - D. 1452
7. A student solves 26 questions of mathematics every day. How many questions did he solve in 7 days?
- A. 42
  - B. 210
  - C. 242
  - D. 232
8. Two bags of flour together weigh 82kg-32gm. If the weight of one bag is 62kg-500gm. What is the weight of other bag?
- A. 82kg-512gm
  - B. 63kg
  - C. 63kg-825gm
  - D. 64kg
9. Which of the following closed figures has no sides?
- A. Triangle
  - B. Square
  - C. Circle
  - D. Rectangle
10. Find the perimeter of a rectangle whose length is 8 cm and breadth is 4 cm?
- A. 24cm
  - B. 12cm
  - C. 32cm<sup>2</sup>
  - D. 24cm<sup>3</sup>
11. If the length of a sea turtle is directly proportional to its age, and a 2-year-old sea turtle is 3 inches long, how many feet long is an 80-year-old sea turtle?
- A. 30
  - B. 12
  - C. 100
  - D. 120
  - E. 144
- 16-2382-A-1-PINE-091016

24. Nazim has Rs 120. He spends 25% of the amount. How much money is left with him?

- A. 70 rupees
- B. 60 rupees
- C. 80 rupees
- D. 90 rupees

25. The length and breadth of a rectangular field is "b cm" and "a cm" respectively. If Robina makes a round ground it, find the distance covered by her.

- A.  $(2b + 2a)$  cm
- B.  $(b + a)$  cm
- C.  $(3b + 2a)$  cm
- D.  $(2b + 3a)$  cm

26. Simplify  $9^8 - 3^8$ :

- A.  $3^2$
- B.  $9^8$
- C.  $3^8$
- D.  $4^8$

27. Factorize  $49x^2 - 81y^2$ :

- A.  $(7x - 9y)(7x + 9y)$
- B.  $(8x - 7y)(7x + 9y)$
- C.  $(7x - 9y)(8x + 7y)$
- D.  $(7x - 8y)(9x + 9y)$

28. After 32 years from now, a boy will be 5 times as old as he was 8 years back. How old is the boy now?

- A. 16 years old
- B. 18 years old
- C. 20 years old
- D. 22 years old

29. Factorization of  $2ax + bx + 6ay + 3by$  yields:

- A.  $(2b + a)(x + 3y)$
- B.  $(2a + b)(3x + y)$
- C.  $(2a + b)(x + 3y)$
- D.  $(a + 2b)(x + 3y)$
- E.  $2(a + b)(x + y)$

P-16-2382-Q-BLUE-091016

4. Nazim has Rs 120. He spends 25% of the amount. How much money is left with him?

- A. 70 rupees
- B. 60 rupees
- C. 80 rupees
- D. 90 rupees

5. The length and breadth of a rectangular field is "b cm" and "a cm" respectively. If Robina makes a round around it, find the distance covered by her.

- A.  $(2b + 2a)$  cm
- B.  $(b + a)$  cm
- C.  $(3b + 2a)$  cm
- D.  $(2b + 3a)$  cm

Simplify  $9^8 - 3^8$ :

- A.  $3^2$
- B.  $9^8$
- C.  $3^8$
- D.  $4^8$

Factorize  $49x^2 - 81y^2$ :

- A.  $(7x - 9y)(7x + 9y)$
- B.  $(8x - 7y)(7x + 9y)$
- C.  $(7x - 9y)(8x + 7y)$
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- A.  $(2b + a)(x + 3y)$
- B.  $(2a + b)(3x + y)$
- C.  $(2a + b)(x + 3y)$
- D.  $(a + 2b)(x + 3y)$
- E.  $2(a + b)(x + y)$

6-2382-Q-BLUE-091016

6. There are 2575 chicks and 3333 hens in a poultry farm. How many more chicks are there than hens?
- A. 1252  
B. 1152  
C. 1352  
D. 1452
7. A student solves 36 questions of mathematics every day. How many questions did he solve in 7 days?
- A. 42  
B. 216  
C. 242  
D. 252
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C. 63kg-825gm  
D. 64kg
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B. 12cm  
C. 32cm<sup>2</sup>  
D. 24cm<sup>2</sup>
11. If the length of a sea turtle is directly proportional to its age, and a 2-year old sea turtle is 3 inches long, how many feet long is an 80-year old sea turtle?
- A. 10  
B. 12  
C. 100  
D. 120  
E. 144
- 18-2382-A 1-PINK-091016

## SCIENCE

21. During respiration we take \_\_\_\_\_ into the lungs and exhale \_\_\_\_\_ to the atmosphere.

- A. Oxygen ... nitrogen
- B. Oxygen ... carbon dioxide
- C. Carbon dioxide ... Oxygen
- D. Carbon dioxide ... nitrogen

22. Which of the following is non-biodegradable?

- A. Grass clippings
- B. Feather
- C. Styrofoam
- D. Paper

23. Matter has how many states?

- A. 2
- B. 3
- C. 4
- D. 5
- E. 6

24. An animal has legs, skeleton and segmented body but lacks backbone and gills. To which of the following does it belong?

- A. Bacteria
- B. Algae
- C. Vertebrates
- D. Invertebrates

25. In Fahrenheit scale, the freezing point of water is \_\_\_\_\_ and boiling point of water is \_\_\_\_\_.

- A. 0°F ... 100°F
- B. 32°F ... 212°F
- C. 50°F ... 150°F
- D. -273°F ... 273°F

26. When light source is far away from the object, the shadow formed is:

- A. Equal in size to the object
- B. Smaller in size than the object
- C. Bigger in size than the object
- D. Double in size than the object

P-16-2382-A 1-PINK-091016

But the advances of the twentieth century in curative and preventive medicine and biology are far more numerous than those of all other periods combined. Consider that the sterilization of surgical instruments, largely the idea of Sir Joseph Lister, is a process only seventy-five years old. Sulfa drugs, antibiotics, and X-rays are discoveries of the past fifty years.

26.What is the main topic of this passage?

- A. The history of medicine in Greece
- B. The contributions of biology to medicine
- C. The scientific method
- D. Medical advances in the twentieth century

27.What was Hippocrates greatest contribution to medicine?

- A. The classification of plants on the basis of body structure
- B. The sterilization of surgical instruments
- C. The scientific recording of symptoms and treatments
- D. The theory that disease was caused by the gods

28.Who is known as the father of biology?

- A. Hippocrates
- B. Aristotle
- C. Dioscorides
- D. Edward Jenner

29.What was the contribution made to medicine by William Harvey?

- A. The theory of germs and bacteria
- B. The discovery of a vaccine against smallpox
- C. The discovery of a mechanism for the circulation of the blood
- D. The compilation of Materia Medica

30.According to this paragraph, which man made the greatest single contribution to medicine?

- A. Sir Joseph Lister
- B. Louis Pasteur
- C. Edward Jenner
- D. William Harvey

P-16-2382-A 4-WHITE-091016

25. The teacher said, "All that glitters is not gold."

- A. The teacher told that all that glitters was not gold.
- B. The teacher told that all that glitters will not be gold.
- C. The teacher told that all that glitters is not gold.
- D. The teacher told that all this glitters was not gold.
- E. The teacher tells that all that glitters not gold.

Questions 26-30 are based on the following passage.

Early in Greek history, Hippocrates began to study the human body and to apply scientific method to the problems of diagnosis and the treatment of diseases. Unlike other physicians of his time, he discarded the theory that disease was caused by the gods. Instead, he kept careful records of symptoms and treatments, indicating the success or failure of the patient's cure. He has been recognized as the father of modern medicine.

About a century later, Aristotle began a scientific study of plants and animals, classifying more than five hundred types on the basis of body structure. Because of his great contribution to the field, Aristotle has been called the father of biology.

By the first century A.D. Dioscorides had collected a vast amount of information on plants, which he recorded in the now famous Materia Medica, a book that remained an authoritative reference among physicians for fifteen hundred years.

During the middle Ages, scientific method was scorned in favor of alchemy. Thus, medicine and biology had advanced very little from the time of the ancients until the seventeenth century when the English physician and anatomist William Harvey discovered a mechanism for the circulation of the blood in the body.

By the end of the eighteenth century, Edward Jenner had discovered a vaccine against smallpox. His contribution not only controlled the disease itself, but also established the science of immunization.

Louis Pasteur's theories about germs and bacteria, advanced in the nineteenth century, are considered by many to be the greatest single contribution of biology to medicine. Within a few decades, the causes were isolated for such ancient diseases as leprosy, plague, diphtheria, and tuberculosis.

JRDU

31۔ فر سائب نور و لیون کسے ہے۔

- A بروڈ
- B ہر ملے
- C ڈائی
- D ڈیکٹ

32۔ دہنہ جو اوزاروں اور سہیلز

- A ٹرف
- B افس
- C ڈی
- D سوت

33۔ مورات سے مراہد سے:

- A موت کی شکاری کرنا
- B مبت کرنا
- C شکر کرنا
- D سور رہ

34۔ جن بستاک مخفہ سے:

- A دل لگنا
- B مشغول ہونا
- C لہیڑی پانہ
- D دل نہ لگنا

35۔ خوش حال کا مخفہ سے:

- A رحلت پشت
- B قلع حل
- C سربان
- D پریشان حل

## **CA/GK**

11. What is signified by the term "art for art's sake"?

- A. Art is solely connected with nature and morality
- B. Art is solely connected with beauty not with morality
- C. Art must not be connected with morality
- D. Art is solely connected with nature

12. "Scurvy" (Bleeding Gums) is a disease caused by the deficiency of:

- A. Vitamin A
- B. Vitamin B
- C. Vitamin C
- D. Vitamin D

13. United Nations (League of Nations) was established after:

- A. First World War
- B. French Revolution
- C. Second World War
- D. War of Independence

14. Which of the following issues was of serious concern in Punjab especially in Lahore and its surroundings immediately before September 2016?

- A. Shortage of sugar
- B. Child abduction
- C. Secretarianism
- D. Dearness

15. Which tennis player has won Wimbledon Tournament (single) the 7<sup>th</sup> time on 9<sup>th</sup> July 2016?

- A. Serena Williams
- B. Venus Williams
- C. Maria Sharapova
- D. Sania Mirza

31. مرحوم ادیب کی وجہ شہرت میں نہ راموں کی بدولت ہے؟

- A. استیج
- B. ریشو
- C. شیوی
- D. کتابیں
- E. معاشرتی

32. "مردم دیدہ" کے خالوں کا موضوع کیا ہے؟

- A. لوگ
- B. اشخاص
- C. منظر
- D. احباب

33. یہ شعر کس صنف سے تعلق رکھتا ہے؟  
پینچا سے بر اک میے کش کیے الگی دور جام اسی کا  
کس کو شنے لے رکھنا اس سے لطف عالم اسی کا

- A. حمد
- B. نعت
- C. غزل
- D. نظم
- E. منقبت

34. "قطعہ تلامیں" کس فنِ تخلیق سے ہے؟

- A. انور مسعود
- B. انور مقصود
- C. ابن الشاء
- D. مستنصر حسین تاریخ
- E. انتظار حسین

35. میرانگی میراثی خلائق کا پہنچاں موضوع کیا ہے؟

- A. علم
- B. حوش
- C. اندھہ کنوار
- D. ایمه
- E. مدنگ

31. مرحوم ادیب کی وجہ شہرت میں نہ راموں کی بدولت ہے؟

- A. استیج
- B. ریشو
- C. شیوی
- D. کتابیں
- E. معاشرتی

32. "مردم دیدہ" کے خالوں کا موضوع کیا ہے؟

- A. لوگ
- B. اشخاص
- C. منظر
- D. احباب

33. یہ شعر کس صنف سے تعلق رکھتا ہے؟  
پینچا سے بر اک میے کش کیے الگی دور جام اسی کا  
کس کو شنے لی رکھنا اس سے لطف عالم اسی کا

- A. حمد
- B. نعت
- C. غزل
- D. نظم
- E. منقبت

34. "قطعہ تلامیں" کس فنِ تخلیق سے ہے؟

- A. انور مسعود
- B. انور مقصود
- C. ابن الشاء
- D. مستنصر حسین تاریخ
- E. انتظار حسین

35. میرانگی میراثی خلائق کا پہنچاں موضوع کیا ہے؟

- A. علم
- B. حوش
- C. اندھہ کنوار
- D. ایمه
- E. مدنگ

## SCIENCE

1. Friction produces:

- A. Heat
- B. Cooling
- C. Motion
- D. Roughness

2. Which of the following is used as a safety device in an electrical circuit?

- A. Circuit producer
- B. Circuit breaker
- C. Battery circuit
- D. Ammeter box

3. Connecting wires are usually covered with plastic coating to:

- A. Make them look pretty
- B. Make the flow of current easier
- C. Make the electric circuit insulated
- D. Prevent the wastage of current

4. During daytime, stars are invisible to us, due to the presence of:

- A. Sun heat
- B. Sunlight
- C. Pollution
- D. Gravitational force
- E. Sun burn

5. Part of a plant that absorbs water from soil, is:

- A. Stem
- B. Flower
- C. Root canal
- D. Route
- E. Root

6. Which one of the following is least related to the life cycle of a butterfly?

- A. Pupa
- B. Tadpole
- C. Egg
- D. Adult
- E. Larva

P-16...

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41. مخلوق ایشواروں کے ساتھ رہنا ممکن ہے۔

- A اشکاراً ممکن ہے میں غائب نہیں
- B میں کسی ایک طرف کے ساتھ مستقر نہیں
- C ایشواروں کا مقابلہ ممکن ہے بھر لے لیں
- D میں تو اپنے مقابلہ ممکن ہے استھان فراہم کر لیں

42. ابھد کیے بغیر مخفی —————

- A مسترد چھل کا ہوتا ہے
- B اپنے بوس چڑی سے پیرا ہوتا ہے
- C بوس نہیں چڑی ہوتا
- D زمین پر گزہن بوبی چڑی کو لکھاں کر لیتا

43. ان من میں کوئی لفظ ایک دیا مشرائفہ نہیں ہے۔

- A محبیت
- B سروت
- C حب
- D وسیع

44. منصب لفاظ لکا کر جوڑا مکمل کریں۔

جزٹ و

- A خروش
- B خراش
- C جن
- D جست

45. شف کی جمع ہے:

- A وصف
- B صلن
- C صلت
- D اصف
- E صنعت

53. With which one of the following will you associate British Party?

- A. Baluchistan
- B. KPK
- C. Sind
- D. Punjab
- E. Gilgit Baltistan

54. Pakistan's "Five years Plan" started with the help of \_\_\_\_\_.

- A. USA
- B. UK
- C. Canada
- D. Saudi Arabia
- E. Sudan

55. The need for a greater international understanding is more today than ever because of the issue of \_\_\_\_\_ in the recent past.

- A. floods
- B. wars
- C. diseases
- D. terrorism
- E. Illiteracy

32. Which one of the following is NOT related to solid?

- A. Maximum force of attraction between particles
- B. Definite shape
- C. Condenses on cooling
- D. Occupy space

33. The sum of the \_\_\_\_\_ and \_\_\_\_\_ in an atom is called the Atomic Mass Number of the atom.

- A. Protons ... Electrons
- B. Protons ... Neutrons
- C. Neutrons ... Electrons
- D. Electrons ... Number of Valence Shells

34. The circuit having a single path for the flow of current is called:

- A. Parallel circuit
- B. Series circuit
- C. Short circuit
- D. Open circuit

35. Light takes about \_\_\_\_\_ minutes to reach the Earth from the Sun.

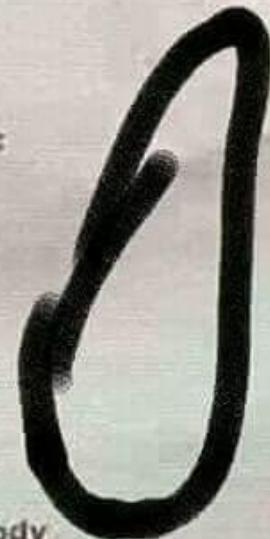
- A. Five
- B. Six
- C. Eight
- D. Nine

36. A physical change does not involve change in:

- A. Shape
- B. Color
- C. Volume
- D. Composition

37. What is the function of white blood cell?

- A. Fight against germs
- B. Transport oxygen around the body
- C. Produce bones and shape support body
- D. Contract and bring movement



**65.** Gas molecules move more easily because:

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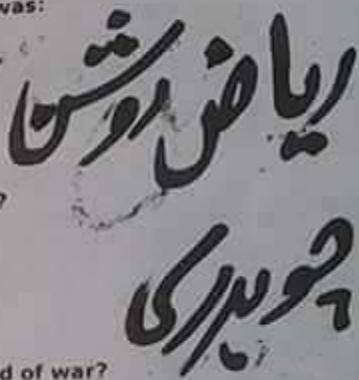
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**CA/GK**

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# چھپڑاکی

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- B. By whom she taught English?
- C. By whom is she taught English?
- D. By whom was she taught English?

58. Sublimation is a process in which:

- A. Solid change directly into vapour
- B. Solid change into liquid
- C. Liquid change into solid
- D. Liquid change into vapour

59. \_\_\_\_\_ is disease caused by water pollution.

- A. ENT diseases
- B. Asthma
- C. Headache
- D. Typhoid

60. Solution which has less solute is called:

- A. Rigorous solution
- B. Concentrated solution
- C. Dilute solution
- D. Intense solution

61. On rough surface \_\_\_\_\_ occurs.

- A. Regular reflection
- B. Diffused reflection
- C. Rarefaction
- D. Absorption

62. The "earth" completes it round around the sun in:

- A. 28 days
- B. 29 days
- C. 30 days
- D. 365.25 days

63. \_\_\_\_\_ is the form when an atom loses its electron.

- A. Anion
- B. Molecular ion
- C. Cation
- D. Free radical

64. In soap making \_\_\_\_\_ is used as a raw material.

- A. Wood
- B. Oil or fat
- C. Grease
- D. Sodium hydroxide

P-16-2433-B 2-BLUE-111216

## SCIENCE

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- A. Protons only
- B. Electrons only
- C. Neutrons only
- D. Protons and neutrons

47. Species of the same element that have the same atomic number "Z" but have different mass number "A" are called \_\_\_\_\_ of that element.

- A. Radioactive rays
- B. Isotopes
- C. Alpha particles
- D. Beta particles

48. 1 microampere=?

- A.  $1 \times 10^{-2}$  ampere
- B.  $1 \times 10^{-3}$  ampere
- C.  $1 \times 10^{-4}$  ampere
- D.  $1 \times 10^{-5}$  ampere
- E.  $1 \times 10^{-6}$  ampere

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- A. Telescope
- B. Microscope
- C. Periscope
- D. Endoscope

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- A. 346 watts
- B. 446 watts
- C. 746 watts
- D. 786 watts

51. Normal boiling point of pure water is:

- A. 32°C
- B. 72°C
- C. 80°C
- D. 100°C

P-16-2433-B 2-BLUE-111216

25. Man spent one-fourth of his life as a boy, one-eighth as a youth, and one-half as an active man. If Man spent 11 years as an old man, then how many years did he spend as an active man?

- A. 40
- B. 44
- C. 48
- D. 52
- E. 88

26. The average grade of 10 students is  $x$ . If 5 other students each earned a grade of 84, what would be the average grade of the entire group?

- A.  $\frac{x + 84}{2}$
- B.  $\frac{x + 420}{5}$
- C.  $\frac{10x + 84}{15}$
- D.  $\frac{10x + 420}{15}$
- E. None of the above

27. Simplify  $\sqrt{.0121}$

- A. 0.011
- B. 0.11
- C. 1.01
- D. 1.11
- E. 1.1

28. A machine can copy 6 pages in 9 seconds. How many pages can it copy in 24 minutes?

- A. 12
- B. 16
- C. 36
- D. 960
- E. 2,160

P-16-2433-B 2-BLUE-111216

52. Blood cells are divided into:

- I. Red Blood Cell
  - II. White Blood Cell
  - III. Platelets
- 
- A. I only
  - B. II only
  - C. III only
  - D. II and III only
  - E. I, II and III

53. In  kind of lever, the load lies between the fulcrum and

- A. First
- B. Second
- C. Third
- D. None of the above

54. \_\_\_\_\_ is the part of plant which stores food and makes a fruit.

- A. Integument
- B. Testa
- C. Ovule
- D. Ovary

55. All those animals who are active during daylight are called \_\_\_\_\_.

- A. Nocturnal animals
- B. Urnal animals
- C. Diurnal animals
- D. Passive animals

56. Which of the following is herbivore?

- A. Cat
- B. Goat
- C. Tiger
- D. Human

7. Which of the following is attracted by a magnet?

- A. Rubber
- B. Iron
- C. Wood
- D. Plastic

2433-B 2-BLUE-111216

11

**40.** Add 5 hours 15 minutes, 6 hours 35 minutes and 10 hours 10 minutes:

- A. 21 hours 59 minutes
- B. 22 hours
- C. 22 hours 15 minutes
- D. 19 hours 35 minutes
- E. 23 hours

**41.** In a class of 75 students, 40% of them are girls. How many are boys?

- A. 35
- B. 47
- C. 45
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- A. 21
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- A.  $36\pi$
- B.  $\sqrt{72}\pi$
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- A. Radius
- B. Tangent
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**45.** Age of the father is 4 times the age of son, if the sum of their ages is 60, what is the age of the son?

- A. 12
- B. 15
- C. 48
- D. 45
- E. 50

34. The triangle, whose all angles are below  $90^\circ$ , is called:

- A. Right angle triangle
- B. Acute angle triangle
- C. Scalene triangle
- D. Obtuse angle triangle

35. According to the properties of union and intersection,  
 $A \cup (B \cap C) = ?$

- A.  $(A \cup B) \cap C$
- B.  $(A \cap B) \cup C$
- C.  $(A \cup B) \cap (A \cup C)$
- D.  $(A \cap B) \cup (A \cap C)$

36.  $1.25 + 2.5 = \underline{\hspace{2cm}}$

- A. 5
- B. 0.5
- C. 0.05
- D. 0.005

37. Find the value of x in the given

$$2 : 5 = 4 : x$$

- A. 6
- B. 8
- C. 10
- D. 12

38. In a proportion extremes are 11 and 27. If value of one means is 9  
find the value of other mean.

- A. 23
- B. 33
- C. 34
- D. 43

39. The simplest form of  $\frac{56}{84}$  is:

- A.  $8/12$
- B.  $1/6$
- C.  $2/3$
- D.  $28/42$

P-16-2433-B 2-BLUE-111216

29. If  $\frac{1}{3}$  of a number is 6 more than  $\frac{1}{4}$  of the number, what is the number?

- A. 72
- B. 60
- C. 48
- D. 24
- E. 18

30. The mode of the following data 40, 50, 30, 25, 20 and 60 is:

- A. 30
- B. 27.5
- C. 32
- D. 0
- E. Does not exists

31. Asifa can write 30 words in two minutes, how much time will she take in writing 225 words.

- A. 5 min
- B. 10 min
- C. 15 min
- D. 20 min

32. A train leaves Lahore traveling south at a speed of 50 km/hour. Two hours later, another train leaves Lahore traveling in the same direction on a parallel track at 70 km/hour. At what point will the faster train overtake the slower train?

- A. 320 km south of Lahore
- B. 350 km south of Lahore
- C. 360 km south of Lahore
- D. 365 km south of Lahore

33. The sum of three numbers is 105. The third is 11 less than 11 times the second. Twice the first is 3 less than 3 times the second. What are the numbers?

- A. 16, 12, 112
- B. 15, 11, 110
- C. 18, 9, 108
- D. 20, 9, 120

## MATH

21. If the sum of two numbers is 10, and one of these numbers is equal to the sum of 6 and twice the other number, what is the value of larger number minus smaller number?

- A. 2
- B. 6
- C.  $5\frac{1}{4}$
- D.  $7\frac{1}{3}$
- E.  $8\frac{1}{2}$

22. It takes 12 people 15 hours to complete a certain job. How many hours would it take 18 people, working at the same rate, to complete  $\frac{2}{5}$  of the same job?

- A.  $3\frac{1}{2}$
- B. 4
- C. 9
- D.  $16\frac{1}{2}$
- E.  $22\frac{1}{2}$

23. A red light flashes 3 times per minute and green light flashes 5 times in two minutes at regular intervals. If both lights start flashing at the same time, how many times do they flash together in each hour?

- A. 30
- B. 24
- C. 20
- D. 60

24. Two oranges, three bananas and four apples cost Rs.15. Three oranges, two bananas and one apple cost Rs.10. I bought 3 oranges, 3 bananas and 3 apples. How much did I pay?

- A. Rs.10
- B. Rs.8
- C. Rs.15
- D. Cannot be determined

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**41. Third level of cognition in Bloom's taxonomy is:**

- A. Knowledge
- B. Synthesis
- C. Evaluation
- D. Comprehension
- E. Application

**42. STRENGTHS:**

allows participation of everyone  
people often more comfortable in small groups  
less anxiety and stress

which of the following methods has these strengths?

- A. Project Based Learning
- B. Small Group Discussion
- C. Inquiry Based Teaching
- D. Scientific Method
- E. Peer Group Method

**43. Which of the following is not the type of communication channel?**

- A. Speaking, listening
- B. Writing, reading
- C. Visualizing, observing
- D. Thinking, acting
- E. Writing, speaking

**44. A teacher wants to conduct research on student learning, he selected 100 schools as sample, initially he distributed questionnaire only in 5 schools. This activity in education research is called:**

- A. Research design
- B. Population
- C. Pilot testing
- D. Data collection

**45. Which of the following strategy in the classroom will satisfy the emotional needs of human brains of the learners?**

- A. Plan structured movement during lesson time
- B. Establish positive relationships with students and create a comfortable and safe environment
- C. Show a chart of a balanced diet to the learners in the classroom
- D. Allow students to bring water bottles with them in the classroom

P-16-2433-B 2-WHITE-111216

## PEDAGOGY

36. When a student tries to solve the questions in some different way as taught by the teacher then the student should be:

- A. Encouraged to consult additional material on the subject
- B. Suggested to talk with their teacher after the period
- C. Suggested to follow only teacher's notes
- D. Discouraged to talk to others
- E. Discouraged to consult some other books on the subject

37. Which of the following is NOT a category of critical thinking?

- A. performance components
- B. discussion components
- C. investigation components
- D. metacomponents
- E. knowledge-acquisition components

38. The unit of teacher's behavior which fulfills instructional roles with the students from moment to moment is:

- A. Strategy
- B. Method
- C. Approach
- D. Tactic

39. The plan or pattern which can be used to shape curriculum and design instructional material is known as:

- A. Personal model
- B. Teaching model
- C. Social-interaction model
- D. Behavioral model

40. After experimenting with plant growth under different conditions, students conclude plant needs water and light. Such reasoning refers to:

- A. Intuition reasoning
- B. Inductive reasoning
- C. Deductive reasoning
- D. Conservative reasoning

**CA/GK**

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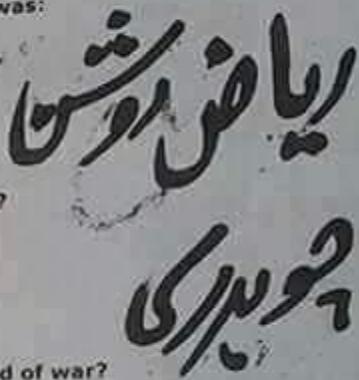
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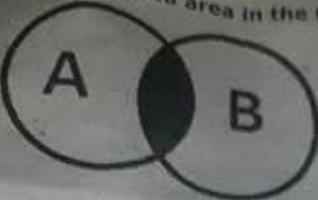
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- C. heinous
- D. appearing often
- E. with a good reputation

52. The shaded area in the figure represents the set:



- A.  $A \cup B$
- B.  $B - A$
- C.  $A \cap B$
- D.  $A - B$

53. The sum of two numbers is 131. Twice of one number is 5 less than the other. The numbers will be:

- A. 26, 125
- B. 33, 115
- C. 37, 102
- D. 41, 92
- E. 42, 89

54. Find the square root of  $5\frac{41}{64}$ .

- A.  $2\frac{3}{8}$
- B.  $1\frac{3}{8}$
- C.  $2\frac{5}{8}$
- D.  $2\frac{3}{4}$
- E.  $2\frac{1}{8}$

55. Price of 3 footballs and 5 tennis balls is Rs.305. The price of 5 footballs and 2 tennis balls is Rs.350. Find the price of one football.

- A. Rs.60
- B. Rs.25
- C. Rs.50
- D. Rs.75
- E. Rs.20

P-16-2433-B-PINK-111216

## SCIENCE

56. Biotechnological method for the production of animal organ is:

- A. Gene therapy
- B. Genetic testing
- C. Cloning
- D. Organ transplant

57. The products of the reaction between zinc and diluted Sulphuric acid are:

- A. Zinc oxide and water
- B. Zinc sulphite and water
- C. Zinc sulphate and Hydrogen
- D. Zinc sulphide and Hydrogen

58. Vertebrates are further divided into \_\_\_\_\_ classes.

- A. Three
- B. Four
- C. Five
- D. Six

59. Which one of the following is the cause of tuberculosis?

- A. Virus
- B. Bacteria
- C. Fungi
- D. Protozoa

60. The first antibiotic was prepared from:

- A. Bacteria
- B. Virus
- C. Fungi
- D. Vertebrates

61. The color of the blood is red due to the presence of:

- A. Carbondioxide
- B. Fats
- C. Hemoglobin
- D. Plasma

P-16-2433-B-PINK-111216

74. Middle region of kidney is known as:

- A. Renal Medulla
- B. Glomerulus
- C. Nephrons
- D. Renal Cortex

75. Which one of the following materials is heredity material?

- A. Protein
- B. DNA
- C. Fats
- D. Carbohydrate

76. Which of the following is involved in the formation of bread and vinegar?

- A. Viruses
- B. Algae
- C. Fungi
- D. Microbes

77. What is insulin?

- A. Carbohydrate
- B. Human protein
- C. A lipid
- D. Yeast

78. Lead compound causes:

- A. Damage to brain
- B. Headache
- C. Damage to liver
- D. Global warming

79. Which of the following is an air pollutant?

- A. Hydroxide
- B. Helium oxide
- C. Water
- D. Carbon mono-oxide

80. Which one of the following speeds up the reaction?

- A. Light
- B. Inhibitor
- C. Manganese
- D. Catalyst

P-16-2433-B-PINK-111216

**CA/GK**

**81.** A pearl is a hard object produced within the soft tissue (specifically the mantle) of a living:

- A. Snail
- B. Shelled mollusk
- C. Lobster
- D. Scorpion

**82.** Which country/ currency/ capital combination is wrong?

- A. Iran/ Rial/ Tehran
- B. Bulgaria/ Lev/ Sofia
- C. Korea/ Won/ Seoul
- D. Mongolia/ Kip/ Ulaan Bator

**83.** Mention the part in London that is famous for public meeting, assemblage and free speech?

- A. Downing Street
- B. Hyde Park
- C. Hyde Street
- D. Red Square

**84.** Which Airline's plane crashed on Dubai Airport on 3<sup>rd</sup> August 2016?

- A. PIA
- B. British Airline
- C. Etihad
- D. Emirates

**85.** India has decided to issue the new currency note of worth \_\_\_\_\_ after deciding to end the currency notes of 500 and 1000 rupees.

- A. 2000 rupees
- B. 3000 rupees
- C. 4000 rupees
- D. 5000 rupees

P-16-2433-B-PINK-111216

16

67. The function  $f(x, y) = e^x \sin y + e^y \cos x$  satisfy which of the following equation?

- A. Tricomi equation
- B. Helmholtz equation
- C. Poisson equation
- D. Laplace equation
- E. Bessel equation

$$r^{\frac{1}{2}} = e^{\lambda}$$

68. Which of the following statements is NOT true for the norm spaces?

- A. A normed space is said to be separable if it is a separable metric space.
- B. Any finite dimensional normed space is a banach space.
- C. Every finite dimensional normed space is complete.
- D. Any two norms on a finite-dimensional normed spaces are equivalent.
- E. A normed space is said to be compact if it is a countable dense set.

69. Let us suppose that the function  $f : [0,1] \rightarrow \mathbb{R}$  is defined as

$$f(x) = \begin{cases} x & \text{if } 0 \leq x < 1 \\ 0 & \text{if } x = 1 \end{cases}$$

The supremum  $\sup_{[0,1]} f = ?$

- A. 1
- B. 2
- C. -1
- D. 3
- E. -2

70. How many distinct non-zero components, apart from a difference in sign, does a skew-symmetric covariant tensor of the third rank have in an N dimensional space?

$\lambda_7$  3

$$(N-1)^3$$

- A.  $N(N-1)(N-2)$
- B.  $\frac{6}{(N+1)(N+2)}$
- C.  $\frac{6}{N(N-1)}$
- D.  $\frac{3}{(N-1)(N-2)}$
- E.  $N(N-1)(N-2)$

17

78. If  $f'(a) f'(b) < 0$ , a root of the equation  $f(x) = 0$  lying in the interval  $(a, b)$  is given by:

- A.  $\frac{af(b) - bf(a)}{b - a}$
- B.  $\frac{bf(a) - af(b)}{b - a}$
- C.  $\frac{af(b) - bf(a)}{f(b) - f(a)}$
- D.  $\frac{af(b) + bf(a)}{b + a}$

79. A population of bacteria grows at a rate proportional to the number present. After two hours, the population has tripled. After two more hours elapse, the population will have increased by a factor of k. What is the value of k?

- A. 6
- B. 8
- C. 9
- D. 27
- E. 81

80.  $u_{xx} + u_{yy} = f(x, y)$  is:

- A. Laplace's equation
- C. Poisson's equation**
- C. Diffusion equation
- D. Wave equation

81. If the roots of the equation  $x^2 + bx + 1 = 0$  are the squares of the equation  $x^2 + bx + 1 = 0$ , which of the following expresses 'B' in terms of 'b':

- A.  $2 - b^2$**
- B.  $b^2 - 2$
- C.  $b^2$
- D.  $\frac{b^2 - 1}{1 - b}$
- E.  $\frac{b^2 + 4 + 2\sqrt{b^2 + 4}}{4}$

98. Once everyone has safely \_\_\_\_\_ the building, they should remain at a predetermined location until the \_\_\_\_\_ has been given.

- A. Entered ... 'all clear'
- B. Exited ... 'all clear'
- C. Arrived ... 'all clear'
- D. Departed ... 'all clear'

99. Students with \_\_\_\_\_ should be assigned an adult or a student buddy to assist them in an emergency situation.

- A. multifarious need
- B. cultural needs
- C. general needs
- D. specific needs

100. The Folic Acid can best be associated with the following:

- A. Vitamin  $B_9$
- B. Vitamin D
- C. Vitamin K
- D. Riboflavin
- E. Vitamin E

98. Once everyone has safely \_\_\_\_\_ the building, they should remain at a predetermined location until the \_\_\_\_\_ has been given.

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- B. Vitamin D
- C. Vitamin K
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- E. Vitamin E

82. The value of Chi square CANNOT be:

- A. Zero
  - B. Negative
  - C. Positive
  - D. Fractional
  - E. Non fractional
83. The average speed of a bicycle over a journey of 20 km, if it travels the first 10 km at 15 km/hr and the second 10 km at 10 km/hr, is:

- A. 10 km/hr
- B. 12.5 km/hr
- C. 16.5 km/hr
- D. 20 km/hr
- E. 22 km/hr

84. If  $\sin \theta_1 = \sin \theta_2$  and  $\cos \theta_1 = \cos \theta_2$  then:

- A.  $\sin \frac{1}{2}(\theta_1 + \theta_2) = 0$
- B.  $\cos \frac{1}{2}(\theta_1 + \theta_2) = 0$
- C.  $\cos \frac{1}{2}(\theta_2 - \theta_1) = -1$
- D.  $\sin \frac{1}{2}(\theta_1 - \theta_2) = 0$
- E.  $\cos \frac{1}{2}(\theta_2 - \theta_1) = 1$

85. Given the function  $f(z) = \frac{z-1}{2}$ ,  $g(z) = \frac{1}{z}(z \neq 0)$  then

- $$g^{-1} \circ f = \frac{z^{-1}}{2}$$
- A.  $\frac{2}{2z-1}$
  - B.  $\frac{2}{z-1}$
  - C.  $\frac{4}{z+1}$
  - D.  $\frac{4}{z-1}$
  - E.  $\frac{2}{4z-2}$

54. Range of the data 5, 16, 25, 8 is

- A. 20
- B. 21
- C. 16
- D. 25

55. Hamza has a bike with 8 liters tank. He can travel 240 km in a full tank. If there is only half liter in reserve fuel then he can travel:

- A. 30 km
- B. 24 km
- C. 15 km
- D. 12 km

56. Add  $4a^2$  with  $5a^2$

- A.  $9a^2$
- B.  $9a^4$
- C.  $20a^2$
- D.  $20a^4$

57. Think of a number, add 4, double the sum result is 30, find the number?

- A. 10
- B. 11
- C. 15
- D. 20

58. A symbol whose value does not remain constant is called:

- A. Literal
- B. coefficient
- C. Exponent
- D. Variable

59. In a regular octagon measure of each angle is

- A.  $108^\circ$
- B.  $120^\circ$
- C.  $135^\circ$
- D.  $90^\circ$

N-16-4218-C-WHITE-201116

13

Pick out true or false:

89. The collection of organs is called system.

- A. True  
B. False

90. Producers trap the sunlight to make food.

- A. True  
B. False

91. Oxygen is released in the air by plants during photosynthesis.

- A. True  
B. False

92. The cells of our skin, blood and muscles reproduce sexually.

- A. True  
B. False

93. Moon is about 240, 000 miles away from the earth.

- A. True  
B. False

94. Combination of oxygen with other elements is called reduction.

- A. True  
B. False

95. Reflected sound wave is called an echo.

- A. True  
B. False

96. Thermal power stations use nuclear fuel.

- A. True  
B. False

97. The substance which speeds up the rate of reaction is called solvent.

- A. True  
B. False

S-12-1570-PST-05-SHUFFLE FIVE

82. The lines or map representing the same temperature of different regions are:

- A. Isobars
- B. Isotherms
- C. Isomers
- D. Isotones

83. The elements emitting radiations are known as:

- A. Stable
- B. Radioactive
- C. Lasers
- D. Isotopes

84. A physical change does not involve change in:

- A. Shape
- B. Color
- C. Volume
- D. Composition

85. \_\_\_\_\_ pulls objects towards earth.

- A. Oceans
- B. Mountains
- C. Moon
- D. Gravity

86. Opposing poles of magnets \_\_\_\_\_ each other.

- A. do not effect
- B. attract
- C. repel
- D. harm

87. Substances which do not allow heat to pass rapidly are \_\_\_\_\_

- A. Conductors
- B. Insulators
- C. Resistors
- D. Radiators

88. Substances which do not allow the light to pass through them are:

- A. Transparent
- B. Opaque
- C. Viscous
- D. Liquid

$$69. \sqrt{10.24} = 3.2$$

- A. True  
B. False

$$70. \text{Mean} = \frac{\text{sum of numbers (measures)}}{\text{number of measures}}$$

- A. True  
B. False

71. Null set is sub-set of every set.

- A. True  
B. False

$$72. a^2 - 121 = (a + 11)(a - 11)$$

- A. True  
B. False

73. The simplest ratio between 315 : 525 will be 3 : 5

- A. True  
B. False

$$74. 9 > 10$$

- A. True  
B. False

75. The word percent means, "for each hundred":

- A. True  
B. False

S-12-1570-PST-05-SHUFFLE FIVE

14

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62.  $A = \{1, 2, 3, 4, \dots\}$  then set A will be:

- A. Finite set
- B. Infinite set
- C. Subset
- D. Empty set

63.  $(x - 2)(x - 3) =$  \_\_\_\_\_

- A.  $x^2 - 5x + 6$
- B.  $x^2 + 5x - 6$
- C.  $x^2 - 6$
- D.  $x^2 + 6$

64. The total area of the surface of cylinder is given by:

- A.  $\pi r^2$
- B.  $\pi r^2 h$
- C.  $2\pi r(r + h)$
- D.  $2\pi rh$

65. If sum of two angles is  $180^\circ$ , they are called \_\_\_\_\_.

- A. Supplementary angles
- B. Complementary angles
- C. Acute angles
- D. Right angles

Pick out true or false:

66. The set of common members of two sets is called union set.

- A. True
- B. False

67.  $10x^2 \times 3x = 30x^3$

- A. True
- B. False

68.  $3_5 + 4_5 = 12_5$

- A. True
- B. False

S-12-1570-PST-05-SHUFFLE FIVE

## MATHEMATICS

56. 72% can be written as \_\_\_\_\_ in decimal fraction.

- A. 0.0072
- B. 0.072
- C. 0.72
- D. 720

57. If  $x \neq -2$ , then  $2x^2 = _____$ .

- A. -8
- B. -6
- C. +6
- D. +8

58. The product of  $6a^2b$  and  $5b^2$  will be \_\_\_\_\_.

- A.  $30a^2b^3$  ✓
- B.  $30a^2b^2$
- C.  $11a^2b^2$
- D.  $11a^2b^3$

59. When 6 is added to a certain number, the sum is 9, the number will be?

- A.  $\frac{1}{3}$
- B. 3
- C. 15
- D. 54

60.  $(-6) \times (-2) = _____$ .

- A. -12
- B. -8
- C. +8
- D. +12 ✓

61.  $a + b = b + a$ , then it will be \_\_\_\_\_.

- A. Associative property
- B. Commutative property with respect to addition
- C. Distributive property
- D. Commutative property with respect to multiplication

S-12-1570-PST-05-SHUFFLE FIVE

**37.HORSE:**

- A. horse
- B. horses
- C. horsies
- D. horsses

**38.PEOPLE:**

- A. people
- B. peoples
- C. pupil
- D. pupils

**39.LEAF:**

- A. leaf
- B. leafs
- C. leaves
- D. leafies

Choose the opposite of the following words (Questions 40 to 43)

**40.COLLECT:**

- A. scatter
- B. repair
- C. herd
- D. avoid

**41.STOP:**

- A. start
- B. delay
- C. pause
- D. unexcited

**42.SIMPLE:**

- A. immature
- B. innocent
- C. ugly
- D. difficult

**43.CORRECT:**

- A. right
- B. wrong
- C. exact
- D. weak

S-12-1570-PST-05-SHUFFLE FIVE

## ENGLISH

Choose the correct answer from choices (A to D).

31. I \_\_\_\_\_ busy in writing a letter.

- A. are
- B. is
- C. am
- D. not

32. Cockroach \_\_\_\_\_ after the millipede.

- A. run
- B. runs
- C. running
- D. will running

33. He has \_\_\_\_\_ his work.

- A. do
- B. does
- C. done
- D. doing

34. Her speech was cheered \_\_\_\_\_ everyone.

- A. by
- B. to
- C. in
- D. at

35. Earth \_\_\_\_\_ only one moon.

- A. has
- B. is
- C. can
- D. contain

Choose plurals of the following words (Questions 36 to 39)

36. STUDENT:

- A. student
- B. studentes
- C. studenties
- D. students

S-12-1570-PST-05-SHUFFLE FIVE

8

28. پاکستان جو قومی ترانو کنهں لکيو.

- A. حفیظ جانذری
- B. علامہ اقبال
- C. مولانا محمد علی جوہر
- D. مولانا شوکت علی

29. یوں کے زمین سے اوپر والا حصہ کا کبھا اے؟

- A. تنا
- B. جڑ
- C. پتے
- D. پہل

29. یوئی جو زمین کان مئی واری حصی کی چا چنبو آهي.

- A. تر
- B. پار
- C. پن
- D. مکل

30. عیسائی کس نبی کو مانتے ہیں؟

- A. موسیٰ علیہ السلام
- B. عیسیٰ علیہ السلام
- C. یوسف علیہ السلام
- D. ابراہیم علیہ السلام

30. عیسائی کھڑی نبی کی مجیندا آھيو.

- A. موسیٰ عہ
- B. عیسیٰ عہ
- C. یوسف عہ
- D. ابراہیم عہ

23. پاکستان جو قومی جانور کھڑو آهي.

- A. مارخور
- B. شینهن
- C. هرث
- D. ہاتی

24. پاکستان کے پہلے وزیر اعظم کا نام بتائیں؟

- A. قائد اعظم
- B. لیاقت علی خان
- C. علامہ اقبال
- D. سکندر مرزا

24. پاکستان جی پھرین وزیر اعظم جو نالو بڈایو.

- A. قائد اعظم
- B. لیاقت علی خان
- C. علامہ اقبال
- D. سکندر مرزا

25. پاکستان کے سب سے بڑے فوجی اعزاز کا نام بتائیں؟

- A. ستارہ امتیاز
- B. نشان حیدر
- C. ستارہ جراءت
- D. تینوں میں سے کوئی نہیں

25. پاکستان جی سپ کان وڈی فوجی اعزاز جو نالو بڈایو.

- A. ستارہ امتیاز
- B. نشان حیدر
- C. ستارہ جرات
- D. تنهی مان کو بہ نہ

**GENERAL KNOWLEDGE** (معلومات عامہ)

21. بسرا قومی شاعر کون ہے؟

- A. حفیظ جالندھری
- B. اکبراللہ آبادی
- C. علامہ محمد اقبال
- D. غالب

21. اسان جو قومی شاعر کیر آهي.

- A. حفیظ جالندھری
- B. اکبراللہ آبادی
- C. علامہ محمد اقبال
- D. غالب

22. پاکستان کے کس شہر کو روشنیوں کا شہر کہا جاتا ہے؟

- A. کراچی
- B. لاپور
- C. اسلام آباد
- D. پشاور

22. پاکستان جی کھڑی شہر کی روشنیں جو شہر چیو ویندو  
اھی۔

- A. کراچی
- B. لاہور
- C. اسلام آباد
- D. پشاور

23. پاکستان کا قومی جانور کونسا ہے؟

- A. مارخور
- B. شیر
- C. برن
- D. باتھی

8. The capital city of Afghanistan is \_\_\_\_\_.

- A. Cairo
- B. Dhaka
- C. Tehran
- D. Kabul

9. The headquarters of Pakistan's Army and Navy are located in \_\_\_\_\_.

- A. Karachi
- B. Lahore
- C. Islamabad
- D. Wah-Cantt

10. Increasing \_\_\_\_\_ pollution is affecting badly the climatic conditions.

- A. soil
- B. air
- C. water
- D. noise

Pick out true or false:

11. The sixth Islamic Summit Conference was held at Lahore.

- A. True
- B. False

12. Allama Iqbal was the first Governor General of Pakistan.

- A. True
- B. False

13. Wheat is a staple food of the dry areas of South Asia.

- A. True
- B. False

14. Colombo is the capital city of Sri Lanka.

- A. True
- B. False

5. Babar built Taj Mahal in Agra (India).

- A. True
- B. False

L2-1570-PST-05-SHUFFLE FIVE

2

## SOCIAL STUDIES

1. The well known animal of hot desert region is \_\_\_\_\_.

- A. Kangaroo
- B. Crocodile
- C. Whale
- D. Camel

2. Pick the odd one out:

- A. Asia
- B. Europe
- C. Atlantic
- D. Australia

3. Days and nights are caused due to:

- A. Rotation of earth
- B. Revolution of earth
- C. Spinning of sun
- D. Motion of moon

4. Indus plain is situated in \_\_\_\_\_.

- A. India
- B. Pakistan
- C. Bangladesh
- D. Sri Lanka

5. The caste of Hindu responsible for the defense of country was

- A. Brahmins
- B. Kshatriyan
- C. Vaisha
- D. Shudra

6. Northern mountain ranges do not include:

- A. Himalaya
- B. Karakoram
- C. Hindukush
- D. Koh-e-safaid

7. \_\_\_\_\_ is the second most populous country of the world.

- A. Pakistan
- B. India
- C. America
- D. Indonesia

S-12-1570-PST-05-SHUFFLE FIVE

## PAKISTAN STUDIES

21. The Earth moves around its axis like a top and completes one rotation from West to East in twenty four (24) hours, this is called:

- A. Orbit of the earth
- B. Rotation of the earth
- C. Axis of the earth
- D. Revolution of the earth
- E. Diameter of the earth

22. Huge mass of land surrounded by ocean from at least three sides is called:

- A. Continent
- B. Earth
- C. Planet
- D. Continental shelf
- E. Region

23. Equator represents \_\_\_\_\_:

- A. 0° longitude
- B. 90° longitude
- C. 0° latitude
- D. 90° latitude
- E. 180° latitude

24. One of the world population high density zone is \_\_\_\_\_:

- A. Southern Part of Canada
- B. Western Part of Asia
- C. East and Western Asia
- D. Western Part of America
- E. The Arabian Peninsula

25. Karachi is situated in south of Pakistan on the coast of abrasion sea at the attitude of \_\_\_\_\_ from the sea level:

- A. 6 meters
- B. 7 meters
- C. 8 meters
- D. 9 meters
- E. 10 meters

26. The term "denudation" means to remove \_\_\_\_\_ of the earth surface:

- A. Middle layers
- B. Horizontal layers
- C. Vertical layers
- D. Lower layers
- E. Upper layers

27. If the ultraviolet rays reach the earth surface, then they can cause \_\_\_\_\_ cancer and many other diseases:

- A. Blood
- B. Skin
- C. Liver
- D. Lungs
- E. Brain

28. \_\_\_\_\_ is the lowest layer of the atmosphere:

- A. Troposphere
- B. Stratosphere
- C. Mesosphere
- D. Thermosphere
- E. Exosphere

29. \_\_\_\_\_ maps can be developed by using different colors or shades.

- A. Choropleth
- B. Dot
- C. Line
- D. Straight
- E. Square

30. The flow of river is \_\_\_\_\_ if the slope of the channel is steep while \_\_\_\_\_ if the slope is gentle.

- A. Fast ... slow
- B. Slow ... fast
- C. High ... low
- D. Low ... high
- E. Up ... down

31. Sumerian Civilization was the oldest civilization of \_\_\_\_\_ which is called the ladder of all civilizations.

- A. Southern India
- B. Southern China
- C. Southern Iran
- D. Southern Iraq
- E. Southern Turkey

32. The basic unit of Aryans political system was a \_\_\_\_\_:

- A. Family
- B. Home
- C. Tribe
- D. State
- E. Religion

27. If the ultraviolet rays reach the earth surface, then they can cause \_\_\_\_\_ cancer and many other diseases:

- A. Blood
- B. Skin
- C. Liver
- D. Lungs
- E. Brain

28. \_\_\_\_\_ is the lowest layer of the atmosphere:

- A. Troposphere
- B. Stratosphere
- C. Mesosphere
- D. Thermosphere
- E. Exosphere

29. \_\_\_\_\_ maps can be developed by using different colors or shades.

- A. Choropleth
- B. Dot
- C. Line
- D. Straight
- E. Square

30. The flow of river is \_\_\_\_\_ if the slope of the channel is steep while \_\_\_\_\_ if the slope is gentle.

- A. Fast ... slow
- B. Slow ... fast
- C. High ... low
- D. Low ... high
- E. Up ... down

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- D. State
- E. Religion

39. On partition of Bengal, Muslims were \_\_\_\_\_.

- A. Distributed
- B. Disappointed
- C. Aggressive
- D. Happy
- E. Sad

40. In Nehru Report, \_\_\_\_\_ was suggested as National Language.

- A. Urdu
- B. Hindi
- C. Bengali
- D. Persian
- E. English

## MATHEMATICS

41. If  $3 \times (5 + 4) = (3 \times x) + (y \times 4)$  then:

- A.  $x = 3, y = 5$
- B.  $x = -5, y = 3$
- C.  $x = 4, y = 3$
- D.  $x = 5, y = 3$

42. 1 is called:

- A. Additive identity
- B. Multiplicative identity
- C. Basic number
- D. Additive inverse

43.  $(42)_2 \times (35)_5 \times (48)_8 = ?$

- A. 7560
- B. 8040
- C. 8000
- D. 8400

44. Two times of a number taken away from 10 is 4, can be expressed as:

- A.  $3x - 10 = 4$
- B.  $10 + 2x = 4$
- C.  $10 - 2x = 4$
- D.  $2x - 10 = 4$

45. Value of Z in  $z - 3 = 5$  is:

- A. -8
- B. 8
- C. 5
- D. -3

46. If  $A = x + y + 2$ ,  $B = x + 1$ ,  $C = y - 1$  then  $A + BC = ?$

- A.  $xy + 2y + 1$
- B.  $xy + 3y + 1$
- C.  $xy - 2y + 1$
- D.  $xy - 3y + 1$

47. Multiplication of  $x^2 - 3x - 9$  by  $x + 3$  gives:

- A.  $-x^3 - 18x - 27$
- B.  $x^3 + 18x + 27$
- C.  $x^3 - 18x - 27$
- D.  $x^3 + 18x - 27$

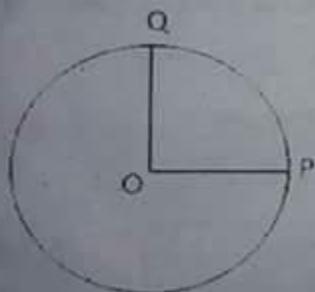
48. If the area of a square is  $4m^2$  the length of a square is

- A.  $4m$
- B.  $2m^2$
- C.  $2m$
- D.  $16m$

49. A cuboid has

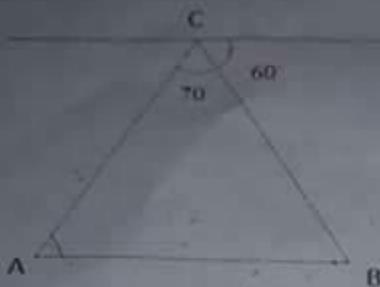
- A. Four edges
- B. Six edges
- C. Eight edges
- D. Twelve edges

50. The length of arc PQ in the given figure is



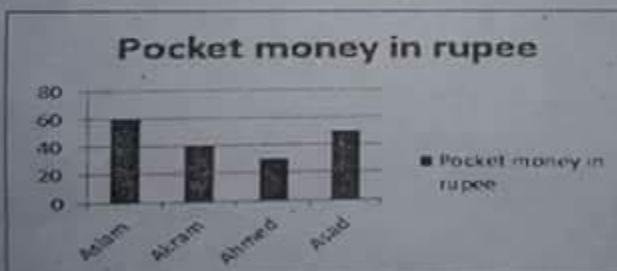
- A.  $\frac{\pi r^2}{2}$
- B.  $\frac{\pi r}{4}$
- C.  $\frac{\pi r}{2}$
- D.  $\pi r$

51. In the given figure  $m\angle A$  is:



- A.  $40^\circ$
- B.  $50^\circ$
- C.  $60^\circ$
- D.  $70^\circ$

52. The pocket money (in rupee) of Aslam, Akram, Ahmed and Asad is shown in bar diagram. The pocket money that Akram and Asad collectively have is:



- A. 45
- B. 40
- C. 50
- D. 90

53. Numerical facts obtained from observations and experiments are called

- A. Classes
- B. Frequencies
- C. Data
- D. Interval

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54. Range of the data 5, 16, 25, 8 is

- A. 20
- B. 21
- C. 16
- D. 25

55. Hamza has a bike with 8 liters tank. He can travel 240 km in a full tank. If there is only half liter in reserve fuel then he can travel:

- A. 30 km
- B. 24 km
- C. 15 km
- D. 12 km

56. Add  $4a^2$  with  $5a^2$

- A.  $9a^2$
- B.  $9a^4$
- C.  $20a^2$
- D.  $20a^4$

57. Think of a number, add 4, double the sum result is 30, find the number?

- A. 10
- B. 11
- C. 15
- D. 20

58. A symbol whose value does not remain constant is called:

- A. Literal
- B. coefficient
- C. Exponent
- D. Variable

59. In a regular octagon measure of each angle is

- A.  $108^\circ$
- B.  $120^\circ$
- C.  $135^\circ$
- D.  $90^\circ$

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13

32. Which one of the following is NOT related to solid?

- A. Maximum force of attraction between particles
- B. Definite shape
- C. Condenses on cooling
- D. Occupy space

Edu.PPSC.NTS

33. The sum of the \_\_\_\_\_ and \_\_\_\_\_ in an atom is called the Atomic Mass Number of the atom.

- A. Protons ... Electrons
- B. Protons ... Neutrons
- C. Neutrons ... Electrons
- D. Electrons ... Number of Valence Shells

34. The circuit having a single path for the flow of current is called:

- A. Parallel circuit
- B. Series circuit
- C. Short circuit
- D. Open circuit

35. Light takes about \_\_\_\_\_ minutes to reach the Earth from the Sun.

NTS SSE.SESE.ESE AND AETO PREPARATION TEST

- A. Five
- B. Six
- C. Eight
- D. Nine

36. A physical change does not involve change in:

- A. Shape
- B. Color
- C. Volume
- D. Composition

37. What is the function of white blood cell?

- A. Fight against germs
- B. Transport oxygen around the body
- C. Produce bones and shape support body
- D. Contract and bring movement

38. Light, temperature, \_\_\_\_\_, water and chlorophyll are necessary factors of photosynthesis.

- A. Oxygen
- B. Mesophyll
- C. Carbon dioxide
- D. Xylem

39. In respiration when glucose reacts with oxygen, in the result carbon dioxide, water and \_\_\_\_\_ is produced.

- A. Organic Food
- B. Inorganic food
- C. Energy
- D. Light

40. When plants and animals die, their bodies are broken down or decomposed by fungi and bacteria. These fungi and bacteria are called:

- A. Omnivores
- B. Carnivores
- C. Herbivores
- D. Decomposers

41. We can increase the solubility of gas in a liquid by:

- A. Increasing the temperature
- B. Stirring
- C. Decreasing the temperature
- D. Decreasing the amount of liquid

42. A car engine overheats because of:

- A. The sun heating the engine
- B. Coolant loss
- C. The battery keeps it warm
- D. It contains a lot of electrical energy

43. Which is the largest part of brain?

- A. Fore Brain
- B. Mid Brain
- C. Hind Brain
- D. Medulla Oblongata

## SCIENCE

56. Biotechnological method for the production of animal organ is:

- A. Gene therapy
- B. Genetic testing
- C. Cloning
- D. Organ transplant

57. The products of the reaction between zinc and diluted Sulphuric acid are:

- A. Zinc oxide and water
- B. Zinc sulphite and water
- C. Zinc sulphate and Hydrogen
- D. Zinc sulphide and Hydrogen

58. Vertebrates are further divided into \_\_\_\_\_ classes.

- A. Three
- B. Four
- C. Five
- D. Six

59. Which one of the following is the cause of tuberculosis?

- A. Virus
- B. Bacteria
- C. Fungi
- D. Protozoa

60. The first antibiotic was prepared from:

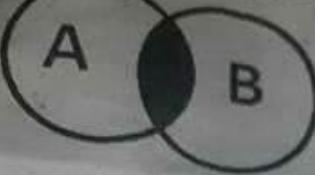
- A. Bacteria
- B. Virus
- C. Fungi
- D. Vertebrates

61. The color of the blood is red due to the presence of:

- A. Carbondioxide
- B. Fats
- C. Hemoglobin
- D. Plasma

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52. The shaded area in the figure represents the set:



- A.  $A \cup B$
- B.  $B - A$
- C.  $A \cap B$
- D.  $A - B$

53. The sum of two numbers is 131. Twice of one number is 5 less than the other. The numbers will be:

- A. 26, 125
- B. 33, 115
- C. 37, 102
- D. 41, 92
- E. 42, 89

54. Find the square root of  $5\frac{41}{64}$ .

- A.  $2\frac{3}{8}$
- B.  $1\frac{3}{8}$
- C.  $2\frac{5}{8}$
- D.  $2\frac{3}{4}$
- E.  $2\frac{1}{8}$

55. Price of 3 footballs and 5 tennis balls is Rs.305. The price of 5 footballs and 2 tennis balls is Rs.350. Find the price of one football.

- A. Rs.60
- B. Rs.25
- C. Rs.50
- D. Rs.75
- E. Rs.20

P-16-2433-B-PINK-111216

68. Light, temperature, \_\_\_\_\_, water and chlorophyll are necessary factors of photosynthesis.

- A. Oxygen
- B. Mesophyll
- C. Carbon dioxide
- D. Xylem

69. In respiration when glucose reacts with oxygen, in the result carbon dioxide, water and \_\_\_\_\_ is produced.

- A. Organic Food
- B. Inorganic food
- C. Energy
- D. Light

70. When plants and animals die, their bodies are broken down or decomposed by fungi and bacteria. These fungi and bacteria are called:

- A. Omnivores
- B. Carnivores
- C. Herbivores
- D. Decomposers

71. We can increase the solubility of gas in a liquid by:

- A. Increasing the temperature
- B. Stirring
- C. Decreasing the temperature
- D. Decreasing the amount of liquid

72. A car engine overheats because of:

- A. The sun heating the engine
- B. Coolant loss
- C. The battery keeps it warm
- D. It contains a lot of electrical energy

73. Which is the largest part of brain?

- A. Fore Brain
- B. Mid Brain
- C. Hind Brain
- D. Medulla Oblongata

P-16-2433-B-PINK-111216

74. Middle region of kidney is known as:

- A. Renal Medulla
- B. Glomerulus
- C. Nephrons
- D. Renal Cortex

75. Which one of the following materials is heredity material?

- A. Protein
- B. DNA
- C. Fats
- D. Carbohydrate

76. Which of the following is involved in the formation of bread and vinegar?

- A. Viruses
- B. Algae
- C. Fungi
- D. Microbes

77. What is insulin?

- A. Carbohydrate
- B. Human protein
- C. A lipid
- D. Yeast

78. Lead compound causes:

- A. Damage to brain
- B. Headache
- C. Damage to liver
- D. Global warming

79. Which of the following is an air pollutant?

- A. Hydroxide
- B. Helium oxide
- C. Water
- D. Carbon mono-oxide

80. Which one of the following speeds up the reaction?

- A. Light
- B. Inhibitor
- C. Manganese
- D. Catalyst

**Choose the word most similar in meaning to the capitalized ones.**

**B1.REASON:**

- A. cure
- B. curse
- C. clause
- D. cause

**B2.TORN:**

- A. dishonest
- B. helpless
- C. vague
- D. nervous
- E. ragged

**B3.ABRUPT:**

- A. above
- B. sudden
- C. noisy
- D. calm

**Change the voice of the following. (Active & passive voice)**

**B4.Apples are eaten by them.**

- A. They eat apples.
- B. They are eating apples.
- C. They will eat apples.
- D. They were eating apples.

**B5.They will shop some clothes.**

- A. Some clothes will shopped by them.
- B. Some clothes will be being shopped by them.
- C. By them some clothes were shopped.
- D. Some clothes had been shopped by them.
- E. Some clothes will be shopped by them.

**Change the narration of the following (Direct & indirect speech)**

**B6.He told me that he was fourteen years old.**

- A. He said to me, "I am fourteen years old."
- B. He said to me, "I was fourteen years old."
- C. He said to me, "I had been fourteen years old."
- D. He said to me, "I will be fourteen years old."

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-16-2433-B-PINK-111216

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سُنْنَةٌ

- 94- "کیا دنیا اتنی گول ہے" کے مصنف کا نام کیا ہے  
 a- شاہزادہ b- پٹرسن بخاری c- کریم محمد غانم  
 d- بن انصار

- 95- مشہور مصنف بالوقدوس کے شہر کا نام کیا ہے  
 a- اشراق احمد b- شکت مدنی c- ممتاز ملتی  
 d- آخر شہر انی

- 96- مولانا محمد حسین آزاد کپھاں پیدا ہوئے۔  
 a- لاہور b- آگرہ c- دہلی d- ہرات

- 97- کوبس کے قلمی ہم سے کون کالم بھی ری کر رہا تھا  
 a- پٹرسن بخاری b- چاند من حضرت c- اشراق احمد  
 d- شکت مدنی

- 98- لڑھائے دن اس کا جگوں کام ہے۔  
 a- فراز b- ناصر کاظمی  
 c- منیر نیازی d- فیض

- 99- ڈاکڑ دزیر آغا کی وجہ شہرت کیا ہے۔  
 a- افغانستانی b- افغانستانی  
 c- شاعری d- ان میں سے کوئی بھی نہیں

- 100- انسانی مجموعہ "آتش پارے" کے مصنف کا کیا نام ہے  
 a- شکت مدنی b- غلام عباس  
 c- سعادت حسن منو d- شاہزادہ

81. "مر اسیں ابھی کرنا نہیں پہلے۔ میں جو ہوں اور ابھی انکریز یہ میں ہوں" کس کا شرب ہے  
 a. فیض b. مدنیہ نار c. مصطفیٰ زیدی d. احسان دانش۔

82. "پاپہ نہ پھل کرنا" کا مطلب ہے  
 a. کوشش کرنا b. بخاتر کرنا c. بہانے کرنا d. اذی کرنا

83. "گھی کے چار جانہا" کا معلوم ہے۔  
 a. بہادرت کرنا b. اہمیت دینا c. حمایت کرنا d. خوشی بنانا

84. "فلم نکلا کرنا" کے معنی ہیں۔  
 a. سمجھی بدلنا b. غرت کرنا c. جوان ہونا d. لعنت بھیجنا

85. "ڈھاک کے تین پات"۔  
 a. تیار ہونا b. افراد ازاہ c. اندھی ہونا d. زندگی

86. "ظیں جماں کا" سے مراد ہے۔  
 a. بھاگ ہانا b. راضی ہونا c. راضی ازاہ d. پھر مند ہونا

87. بجوت کا موت ہے۔  
 a. بھوتی b. بھوتی c. بھوتی d. بھوتی

88. اس ایام کو کہتے ہیں جو صدر سے بیجا گئے۔  
 a. ایام صدر b. ایام باد c. ایام مشق d. ایام رسول

89. ام خیر کی تھی تھیں ہیں  
 a. پانچ b. چار c. سات d. سات

90. "اب طالب" کسی بیٹا ہے  
 a. ایوب b. ایوب c. ایوب d. ایوب

91. کر کی تھی ہے  
 a. کسر b. کسر c. کسر d. کسر

92. افساز "سازش" کے معنی کیا ہام ہے  
 a. امور نہیں چاہی b. ممتاز مقتنی

93. نعم "ہال استھول" کے شام کا ہام کیا ہے  
 a. سمجھنے چاہی b. سمجھنے چاہی c. احسان دانش d. خفیظ باندھری

67. When did Muhammad Bin Qasim conquered Daibal?  
A. 710 A.D       B. 712 A.D      C. 714 A.D      D. 716 A.D

68. Where is the shrine of Abdullah Ghazi situated?  
 A. Karachi      B. Lahore      C. Multan      D. Pak Patan

69. Who is the governor of KPK?  
A. Pervaiz Khatak      B. Rafique Rajwana      C. Mahtab Abbasi       D. Zafar Ali Jhagra

70. Manjodaro is situated in district:  
A. Mianwali      B. Hyderabad       C. Larkana      D. Sahiwal

SECTION-VI (Current Affairs)

71. Who is the Inspector General Police of AJK?  
A. Sikandar Sultan      B. Khuda Bux Awan       C. Bashir Mamon      D. Nasir Durrani

72. Cristiano Ronaldo belongs to which country?  
A. Spain       B. Portugal      C. Germany      D. France

73. Who was the top goal scorer in hockey in Pakistan?

- ie; 348  A. Sohail Abbass B. Hanif Khan C. Hasan Sardar      D. Sami Ullah

74. Who is the minister of Finance in the state of AJ&K?  
A. Mir Akbar       B. Najeeb Naqi      C. Qammar Zaman      D. Iftikhar Gilani

75. Who is the Prime Minister of New Zealand?  
A. Stefan Lofven       B. John Key      C. Justin Trudeau      D. Malcolm Turnbull

76. Mother Teresa passed away in the city of Sep, 5, 1997  
 A. Calcutta      B. Brussels      C. Helsinki      D. Vienna

77. Capital of Uganda is  
A. Algiers      B. Sana       C. Kampala      D. Khartoum

78. The currency of Egypt is:  
A. Egyptian Riyal       B. Egyptian Pound      C. Egyptian Dinar      D. Egyptian Peso

79. Which is the smallest bird in the world?  
 A. Bee Hummingbird      B. Weebill      C. Goldcrest      D. Pardalote

80. The most populated city in the world is:  
A. Shanghai      B. Delhi      C. Mexico City       D. Tokyo

SECTION-VII (Urdu)

V2

53. Sardar Abdul Qayyum Khan was born in:

- A. 1924      B. 1925      C. 1926      D. 1927

54. Where is radio Tarakhal operational?

- A. Tarakhal       B. Islamabad      C. Muzaffarabad      D. Rawalpindi

55. Who is the chief justice of Supreme Court of AJ&K?

- A. Mustafa Mughal       B. Azam Khan      C. Ibrahim Zia      D. None of them *b/s*

#### SECTION-V (Pak Studies)

56. Liaqat Ali khan was killed in Rawalpindi on:

- A. Oct.14, 1951      B. Oct. 15, 1951       C. Oct.16, 1951      D. Oct. 17, 1951 *b/s*

57. MRD was organized in: *1983? MRD = Movement for restoration of democracy.*

- A. 1979      B. 1980      C. 1981      D. 1982

58. Ghulam Muhammad remained Governor General till:

- A. 1952       B. 1953      C. 1954       D. 1955 *b/s*

59. Pick the odd one:

- A. Waseem Sajjad      B. Shoukat Aziz      C. Moeen Qureshi      D. Bulkh Sher Mazari

60. What is the height of Nanga Perbat:

- A. 8123 m      B. 8124 m      C. 8125 m       D. 8126 m *b/s*

61. The second Round Table Conference was held in

- A. 1930       B. 1931 *30 sep.*      C. 1932      D. 1933 *b/s*

62. Thal Region is situated between River Jhelum and:

- A. Sind      B. Ravi      C. Chinab      D. Sutlaj

63. When was the first constitution of Pakistan framed?

- A. 1956      B. 1962      C. 1968      D. 1973

64. Where is the National Hockey Stadium located?

- A. Lahore      B. Karachi      C. Faisalabad      D. Multan

65. What is the ratio of education of female in Pakistan

- A. 32.6 %      B. 33.6% *♂*      C. 34.6%      D. 35.6%

66. Which city was the center of Ghandara civilization and is about

- A. Taxila      B. Manjodaro      C. Harapa      D. Thar

38. When was Battle of Trench fought?

- A. 4 Hijri       B. 5 Hijri      C. 6 Hijri      D. 8 Hijri

39. Hazarat Zaid bin Haris was martyred in the battle of:

- A. Mutah      B. Hunain      C. Tabook      D. Jamal

40. Hazarat Aisha passed away at the age of:

- A. 63      B. 65      C. 70      D. 73

**SECTION-IV (Kashmir Studies)**

41. When was Kargal war started?

- A. May 8, 1999      B. June 8, 1999      C. July 8, 1999      D. None of these

42. Who was arrested on October 19, 1946?

- A. Farooq Abdullah      B. Ibrahim Khan      C. Sheikh Abdullah       D. Ch. Ghulam Abbas

43. No Tax campaign was launched in 1932 in:

- A. Mirpur      B. Srinagar       C. Jammu      D. Poonch

44. All Jammu & Kashmir Muslim Conference was established in:

- A. 1931       B. 1932      C. 1933      D. 1934

45. Syed Khadim Hussain Shah, a Kashmiri leader, belonged to:

- A. Kotli       B. Bagh      C. Palandri      D. Mirpur

46. Mountbatten visited Hari Singh on:

- A. June 14, 1947      B. June 15, 1947       C. June 16, 1947      D. June 17, 1947

47. In 1819, the Sikh army entered in Kashmir under the command of:

- A. Pertaab Singh      B. Hari Singh      C. Ranjeet Singh      D. None of them

48. Stand Still Agreement was offered by:

- A. Hari Singh      B. Nehro      C. Ibrahim Khan      D. Sheikh Abdullah

49. Who was known as Raja of Uri:

- A. Sardar Ghulam Ali      B. Raja Sarfaraz Khan      C. Raja Zabardast Khan       D. None of these

50. Where is Fort Baghser Located?

- A. Mung      B. Sharda       C. Samahni      D. Mangla

51. Name the Kashmiri leader who died in a road accident:

- A. Sheikh Abdullah      B. Abdul Qayyum Khan      C. Sardar Ibrahim Khan       D. K.H. Khurshid

52. Earthquake Memorial Bridge is located in?

- A. Bagh       B. Muzaffarabad      C. Balakot      D. Neelum

23. Who is considered the first Muslim scientist in the history?  
A. Al-Biruni    B. Abu al-Qasim    C. Al-Khwarizimi    D. Ibn al-Haytham
24. The unit of force is:  
A. Watt    B. Newton    C. Joule    D. Ohm
25. Who discovered vaccine for smallpox?  
A. J. Salk    B. Louis Pasteur    C. Edward Jenner    D. Flemming
26. Lake Baikal, the deepest lake, is there in:  
A. Russia    B. America    C. Canada    D. Sweden
27. The vitamin which is used for the prevention of rickets is:  
A. Vitamin C    B. Vitamin D    C. Vitamin K    D. None of these
28. Bulb was invented by:  
A. G. Bell    B. Thomas Edison    C. James Watt    D. B. Franklin
29. A fathom is equivalent to:  
A. 1.5 meter    B. 1.6 meter    C. 1.7 meter    D. 1.8 meter.
30. The scientific study of language is called:  
A. Semantics    B. Etymology    C. Linguistics    D. Lexicology

### SECTION-III (Islamic Studies)

31. How many sons Prophet Hazrat Ismail had?  
A. 5    B. 12    C. 15    D. 18
32. Where was Hazarat Aminah burried?  
A. Madina    B. Makkah    C. Abwah    D. Taif
33. What was the age of Hazarat Muhammad PBUH when Harb-ul-Fajar broke out?  
A. 8    B. 12    C. 15    D. 17
34. Maisara was the slave of:  
A. Hazarat Khadija    B. Hazarat Aisha    C. Hazarat Fatima    D. Hazarat Abu Mutalib
35. Which year of the prohethood is known as Aamul-ul-Hazn?  
A. 9th    B. 10th    C. 11th    D. 12th
36. Banu Qainuqa was a tribe of:  
A. Qureish    B. Jews    C. Christians    D. Mushrakin
37. Hinda was the wife of:  
A. Abu Lahab    B. Abu Jehil    C. Abu Zar    D. Abu Sufyan

- 2-
- 10. Obdurate**  
 A. Shrill       B. Stubborn      C. Crude      D. Flexible
- 11. Miscreant**  
 A. Cumbersome      B. Hero      C. Gentle       D. Criminal
- 12. Guile**  
 A. Shrewd      B. Decent      C. Fantastic      D. Priceless
- 13. Boor**  
 A. Lively       B. Offensive      C. Attractive      D. Ample
- 14. Aperture**  
 A. Mature      B. Glued       C. Gap      D. Skimmed

**Choose the word or phrase that best completes the sentence.**

- 15.** The hail \_\_\_ the cornfield until the entire crop was lost.  
 A. Commended      B. Rebuked       C. Belittled      D. Pummeled
- 16.** The \_\_\_ of the two rivers provided the perfect place to build a new state park.  
 A. Treatise      B. Seclusion       C. Confluence      D. Assumption
- 17.** Do you have the \_\_\_ paperwork you need to register for the class?  
 A. Requisite      B. Punitive      C. Grandiose      D. Restorative
- 18.** Do not \_\_\_ yourself; you must pass the last exam of the semester to graduate.  
 A. Relinquish      B. Delude       C. Depreciate      D. Prohibit
- 19.** After an hour of heavy rain, the thunderstorm \_\_\_ , and we were able to continue our golf.  
 A. Constricted      B. Germinated       C. Abated      D. Evoked *لَا يَمْلأُ*
- 20.** On each slick curve in the road, I was afraid we would \_\_\_ and have an accident.  
 A. Hydroplane      B. Submerge      C. Operate       D. Reconnoiter

#### SECTION-II (Everyday Science)

- 21.** Marconi, a great inventor, belonged to:  
 A. America      B. Italy       C. Germany      D. France
- 22.** A plane figure with seven straight sides and angles is called:  
 A. Heptagon      B. Hexagon      C. Octagon      D. None of these

-2-

## Azad Jammu and Kashmir Public Service Commission

Examination for Post of Research Officer, Planning Officer, Assistant Director, BPS-17,  
Department of Planning and Development. Dated: 14-10-2016

### Subject: General Ability Test

Time: 100 Minutes

Maximum Marks: 100

#### SECTION-I (English)

Pick the most suitable antonyms for the following given bold words from the given options.

1. **Hapless**

- A. Oppressed    B. Burdened    C. Unfortunate  D. Lucky

2. **Forswear**

- A. Weak    B. Slow  C. Determined    D. Supple

3. **Expunge**

- A. Obliterate  B. Endorse    C. Delete    D. Abolish

4. **Desultory**

- A. Fixed    B. Random    C. Casual    D. Spontaneous

5. **Demur**

- A. Jib    B. Balk  C. Appreciate    D. Retreat

6. **Cogent**

- A. Persuasive    B. Lucid    C. Logical  D. Boring

7. **Chastise**

- A. Rebuke  B. Reward    C. Castigate    D. Reprimand

Pick the most suitable Synonym for the following given bold words from the given options.

8. **Purloin**

- A. Prefer    B. Plan  C. Steal    D. Hide

9. **Quiescent**

- A. Spirited  B. Gusty    C. Active    D. Dormant

## Azad Jammu and Kashmir Public Service Commission

Examination for Post of Research Officer, Planning Officer, Assistant Director, BPS-17,  
Department of Planning and Development. Dated. 14-10-2016

### Subject: General Ability Test

Time: 100 Minutes

Maximum Marks: 100

#### SECTION-I (English)

Pick the most suitable antonyms for the following given bold words from the given options.

1. **Hapless** (unlucky) = syn

- A. Oppressed B. Burdened C. Unfortunate  D. Lucky

2. **Forswear** Sn = To deny

- A. Weak B. Slow  C. Determined D. Supple

3. **Expunge** Sn = To eliminate / erase / delete

- A. Obliterate  B. Endorse C. Delete D. Abolish

4. **Desultory** (Jumping) = syn

- A. Fixed B. Random C. Casual D. Spontaneous

5. **Demur** (To stay) = syn

- A. Jib B. Balk  C. Appreciate  D. Retreat

6. **Cogent** ↳ a triangular staysail

- A. Persuasive  B. Lucid (clear) syn C. Logical  D. Boring

7. **Chastise** Sy = To punish

- A. Rebuke  B. Reward C. Castigate D. Reprimand

Pick the most suitable Synonym for the following given bold words from the given options.

8. **Purloin**

- A. Prefer B. Plan  C. Steal D. Hide

9. **Quiescent**

- A. Spirited  B. Gusty C. Active D. Dormant

**Azad Jammu and Kashmir Public Service Commission**

1-Assistant Director planning / A.D Statistics & Govt/  
Examination for Post of Secy Regional Transport Authority  
Research Officer/Suptt.Jal Subject: General Ability Test  
Time: 100 Minutes (B-17) Maximum Marks: 100  
Date : 13-03-2016

**SECTION-I (English)**

Pick the most suitable antonyms for the following given bold words from the given options.

1. Ardent

- A. Eager بحاجة بـ B. Devoted مخلص C. Zealous متحمس D. Indolent ملتوٰ

2. Deter

- A. Discourage مُنفٰع B. Boost تقوٰ C. Delay تأخير D. Dismay شعور بالحزن

3. Fabulous

- A. Obstinate متعصٰ بـ B. Abhorrent مبغض C. Wonderful عجيبة D. Horrid مخيف

4. Stagnant

- A. Flowing متدفق B. Stationary موقٰد C. Permanent دائم D. Immoveable ثابت

5. Orthodox

- A. Rebellious متمرٰض B. Conventional تقليدي C. Traditional تقليدي D. Conformist ملتزم

Pick the most suitable Synonym for the following given bold words from the given options.

6. Confrontation مواجهاتی

- A. Compromise مصالحة B. Cooperation تعاون C. Contribution مساهمہ D. Conflict نزاع

7. Overwhelm ماحظہ

- A. Inspire ملهمہ B. Devastate تدمیر C. Hearten تشجیع D. Enhancement تحسین

8. Treacherous خائن

- A. Factitious مفتعل B. Hilarious ممتعہ C. Deceitful ملتفہ D. Nervous متوجہ

9. Dilemma مأزق

- A. Stout قوي B. Resolute مصمم C. Genial مرحوم D. Quandary مأزق

10. Immune مُمنوع

- A. Forced مفروض B. Exempt مُغْرِيَّ بـ C. Susceptible مُسْبِط D. Prone مُهيئ

2 -

Choose the word or phrase that best completes the sentence.

11. He hardly works. In this statement "hardly" means  
A. Very hard      B. Rather      C. Rarely      D. Scarcely ✓
12. I \_\_\_\_\_ live in Muzaffarabad.  
A. used to      B. was used to      C. am used to      D. use to
13. Knowing correct grammar will help you write \_\_\_\_\_.  
A. English      B. Well ✓      C. Goodly      D. Clear

14. "Fast" can be used as an

- A. Adverb      B. Adjective      C. Both      D. None of them

15. Which of the following is not a modal?

- A. Had better      B. Be      C. Used to      D. Should

Choose the right option for the following:

16. This kind of thing brings \_\_\_\_\_ the worst in me.  
A. At      B. Out ✓      C. On      D. For
17. We set a high value \_\_\_\_\_ human life.  
A. To      B. in      C. On ✓      D. At
18. The lyrics have been put \_\_\_\_\_ music.  
A. By      B. To      C. For      D. With
19. Our organization managed to hold \_\_\_\_\_ through some hard times.  
A. with      B. For      C. On ✓      D. By
20. Job description never makes \_\_\_\_\_ exciting reading.  
A. For      B. In      C. Under      D. On

#### SECTION-II (Everyday Science)

21. Speed of light is.  
A. 280,000Km/s      B. 300,000Km/s ✓      C. 320,000Km/s      D. 350,000Km/s
22. X-rays was discovered by.  
A. Rontgen ✓      B. Thomson      C. Rutherford      D. Bacquerel

2 -

23. The fluid part of blood is known as.  
A. Plasma ✓ B. Platelets C. Blood Cells D. None of these
24. Nucleus of an atom has \_\_\_\_\_ charge.  
A. Negative B. Positive ✓ C. Both D. None
25. Heat flows in  
A. One way B. Two ways C. Three ways ✓ D. Four ways
26. Total number of chambers in a human heart are  
A. 2 B. 3 C. 4 ✓ D. 5
27. Transfer of pollen grain from anther to stigma is called  
A. Pollination ✓ B. Respiration C. Evaporation D. Migration
28. Over consumption of fossil fuels resulted in  
A. Water Pollution B. Air Pollution C. Soil Degradation D. Extinction
29. Forests produce  
A. Nitrogen B. Hydrogen C. Helium D. Oxygen ✓
30. Common salt is Known as  
A. Potassium Chloride B. Hydrogen Chloride C. Sodium Chloride D. None of these

### SECTION-III (Islamic Studies)

31. Namz-e-khasoof is offered during?  
A. Rainy season B. Solar eclipse ✓ C. Lunar eclips D. Drought period
32. The name of great Sahabi (Companion) of Holy Prophet (PBUH) who accompanied him during his Hijrat from Makkah to Madina is:  
A. Hazrat Ali (RA) B. Hazrat Usman (RA) C. Hazrat Abu Bakar (RA) D. Hazrat Umar (RA)
33. Give the total number of Ayats in the Holy Quran  
A. 4444 B. 5555 C. 6666 ✓ D. 7777
34. Which is the second last Surah of The Holy Quran  
A. Al-Falak ✓ B. Al-Naas C. Al-Quraish D. Al-Qariah
35. Khalil Ullah is the title of Prophet  
A. Hazrat Yaqub (AS) B. Hazrat Ibrahim (AS) C. Hazrat Dawood (AS) D. Hazrat Sulaiman (AS)
36. Give the number of fraiz-e-wuzu  
A. 3 B. 4 ✓ C. 5 D. 6
37. Who is the mother of Hazarat Faitma  
A. Hazrat Khadija (AS) ✓ B. Hazrat Ayesha (AS) C. Hazrat Salma (AS) D. Hazrat Sauda (AS)

- ~4~
38. The battle of Uhud was fought in  
 A. 2 Hijri      B. 3 Hijri      C. 4 Hijri      D. 5 Hijri
39. What was the age of Imam Hussain when he was martyred  
 A. 54 years      B. 55 years      C. 56 years      D. 57 years
40. Which pillar of Islam is called a shield?  
 A. Salat      B. Zakat      C. Hajj      D. Saum

#### SECTION-IV (Kashmir Studies)

41. Who signed Jammu and Kashmir's instrument of Accession?  
 A. Hari Singh      B. Gulab Singh      C. Ranjeet Singh      D. None of these
42. How many districts are there in AJ&K  
 A. 7      B. 8      C. 9      D. 10
43. What is the total area of Siachen Glacier square miles  
 A. 450      B. 475      C. 525      D. 550
44. Kishen Ganga was the old name of the river  
 A. Jehlum      B. Neelum      C. Sindh      D. Sutlej
45. Afghans ruled Kashmir for (1752-1819)  
 A. 60 years      B. 66 years      C. 70 years      D. 75 years
46. National Conference was established in  
 A. 1931      B. 1934      C. 1938      D. 1939
47. How many Kashmiris were killed on July 13, 1931  
 A. 17      B. 19      C. 22      D. 27
48. K. H. Khurshid was born in  
 A. Sri Nagar      B. Bara Mula      C. Muzaffarabad      D. Sialkot
49. Death anniversary of Ch. Ghulam Abbas is observed on  
 A. 16 December      B. 18 December      C. 21 December      D. 25 December
50. Persian was the official language of Kashmir till  
 A. 1918      B. 1922      C. 1924      D. 1930
51. A well known book "Aatish-e-Chinar" was written by  
 A. Sheikh M. Abdullah      B. Abdul Qayyum Khan      C. K.H. Khurshid      D. Sardar Ibrahim Khan
52. University of AJ&K was established in  
 A. 1978      B. 1980      C. 1982      D. 1984
- ~4~

-5-

53. Who was the first elected Prime Minister of AJ&K  
A. Khan A. Hamid Khan      B. Sardar A. Qayyum Khan      C. Sardar Ibrahim Khan      D. None of these
54. How many languages are spoken in Jammu & Kashmir  
A. 60      B. 64      C. 68      D. 72
55. Radio Azad Kashmir was established in  
A. 1947      B. 1948      C. 1949      D. 1950

#### SECTION-V (Pak Studies)

56. Name the Pakistani who was awarded Lenin Prize  
A. Faiz Ahmed Faiz ✓      B. Abdul Salam      C. Habib Jalib      D. None of these
57. Who coined the word Pakistan?  
A. Quid-e-Azam      B. Hafiz Jalindri      C. Ch. Rehmat Ali ✓      D. Liaqat Ali Khan
58. Who was the first female Speaker of the National assembly  
A. Rana Liaqat      B. Fatima Jinnah      C. Benazir Bhutto      D. Fahmida Mirza ✓
59. Name the smallest province of Pakistan in terms of area  
A. Sindh      B. KPK ✓      C. Baluchistan      D. Punjab
60. Give the total area percentage covered by forests in Pakistan  
A. 4%      B. 4.5%      C. 5%      D. 5.1% ✓
61. Tashkent pact was signed in  
A. 1965      B. 1966 ✓      C. 1967      D. 1968
62. The height of Minar-e-Pakistan is  
A. 196 feet 8 inches      B. 197 feet 8 inches      C. 198 feet 8 inches      D. 198 feet 9 inches
63. When were the people of FATA given the right of voting?  
A. 1992      B. 1997 ✓      C. 1999      D. 2002
64. Pakistan won the Hockey World Cup for the first time in  
A. 1956      B. 1962      C. 1968      D. 1971 ✓
65. Which Batsman has scored a century of centuries in First Class Cricket  
A. Zaheer Abbas      B. Majid Khan      C. Javed Miandad      D. Inzama ul Haq
66. When was the first postage stamp of Pakistan issued?  
A. July 9, 1948      B. July 15, 1948      C. Jan. 01, 1949      D. June 01, 1949
67. According to Cabinet mission Plan, how many portfolios were given to Muslim League  
A. 4      B. 5 ✓      C. 6      D. 7

-5-

-6-

68. Quid-e-Azam delivered his last message to the nation on  
A. August 14, 1948      B. August 27, 1948      C. Sept. 6, 1948      D. Sept. 18, 1948
69. Which country is situated in the east of Pakistan  
A. Iran      B. Afghanistan      C. China      D. India ✓
70. Gandhi-Jinnah talks Of 1944 failed due to  
A. Opposition by the khaksars      B. Red Shirts      C. The Ahrrar      D. Two Nation Theory ✓

#### SECTION-VI (Current Affairs)

71. Recently Pakistan signed a 15-year LNG import deal with  
A. Iran      B. Saudi Arab      C. Qatar ✓      D. UAE
72. Pakistan Ulema Council declared Daesh as.  
A. Munafiq      B. Kwarari ✓      C. Kuffar      D. Mushrik
73. Donald Trump is a presidential candidate for  
A. Republicans      B. Democrats      C. Liberals      D. None of these
74. Which of the following Indian Air Base was attacked by the terrorist in recent past  
A. Kerala      B. Pathan Kot      C. Raj Kot      D. Puna
75. In PSL, Shaun Watson is representing  
A. Karachi Kings      B. Lahore Qalanders      C. Islamabad United ✓      D. Quetta Gladiators
76. Orange line is being constructed in  
A. Lahore ✓      B. Islamabad      C. Karachi      D. Pehawar
77. The existing chairman of the HEC is  
A. Dr. Atta      B. Dr. Nizam      C. Dr. Mukhtar ✓      D. Dr. Kundu
78. Chief Minister of Baluchistan is  
A. Dr. Malik      B. Sana Ullah Zehri      C. Jam Yousaf      D. Aslam Raisani
79. The current under 19 cricket world cup champion is  
A. West Indies ✓      B. India      C. Bangladesh      D. England
80. The Director General of ISPR is General  
A. Nawed Zaman      B. Athar Abbas      C. Navid Mukhtar      D. Asim Salim Bajwa ✓

-6-

درست جواب کی نشان دہی کیجئے۔

گھنلا کے 81

کو - D      کے - C      ہ - B      کی - A

میں لے دیم پر مردم 82

لگائیں - D      کے - C      کان - B      لیا - A

دہی میں چلتی مادر دو 83

کوئی بھی نہیں - D      کھٹے - C      سخنی - B      کھنا - A

شرک پر تار کول 84

کوئی بھی نہیں - D      دالے گے - C      دالا گی - B      دالی گی - A

اس کنوئی کافی 85

کوئی بھی نہیں - D      کماری - C      کماریں - B      کمارا - A

آئیں کہ زبان کا لفظ ہے؟ 86

ہندی - D      فارسی - C      عرب - B      اردو - A

روپیں کا ملمہم ہے۔ 87

بازراہا - D      تمہ آواز ہوئی - C      اشارہ کرنا - B      ادھار لینا - A

متنی غزل کا کون سا شعر ہوتا ہے؟ 88

غزی - D      تمرا - C      دوسرا - B      پہلا - A

استخارہ کے لغوی معنی چیز 89

واضح کرنا - D      اشارہ کرنا - C      ہاتھ قرار دینا - B      ادھار لینا - A

کسی ہماری واقعی روایت کی طرف اشارہ کرنے کو کہتے ہیں۔ 90

کتابیں - D      تشبیہ - C      استخارہ - B      صحیح - A

- 8 -

91۔ "تریکا چنی" کے مصنف کا نام ہے۔

پرانی صورت۔ -D سید امیر احمد ہن -C ائمہ ائمہ -B مرزا ادیب -A

92۔ مرزا اسداللہ حنفی قابل بیدار ہوئے۔

پھول۔ -D تکھو -C دل -B آگرے A

93۔ "دل میں اک بری اجھی ہے ابھی" شاعر کا نام ہے۔

تباش ہوئی۔ -D ہ سرخ گلی -C انسان داش -B سیر قرقی سر -A

94۔ "ضمون اپنی مدداب" کے مصنف کا نام۔

حیدر مکری۔ -D سید سعید الحمدانی -C مذکراہ عالی -B سر سید احمد حنفی -A

95۔ "شاہ نسہ سلام" کے مصنف کا نام۔

علماء قیام۔ -D لغتہ باندھری -C میر احمد -B غفرانی خان -A

96۔ حرف اشافت ہے۔

کا -A س -B س -C ح -D ہ

97۔ دو حروف جنودی اور زیادہ لفظوں پا ہم لوں کو جزو تھے ہیں۔

حرف اسدر اک۔ -D حروف اصل -C حروف انتساب -B حروف عطف -A

98۔ شعراء کا آئمہ ہم کہلاتا ہے۔

چنکیں۔ -D کنیت -C خدا ب -B اقب -A

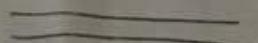
99۔ تشبیہ کے اکان کی تعداد ہے۔

پانچ۔ -D پانچ -C تین -B دو -A

100۔ علم بیان کی اعلیٰ اور بلیغی دل ہے۔

کنایہ۔ -D استوارہ -C تسبیح -B تشبیہ -A

- 8 -



## Azad Jammu and Kashmir Public Service Commission

Examination for Post of Revenue Officer BPS-17, department of Physical Planning and Housing

Subject: General Ability Test

Date 30-09-2016

Time: 100 Minutes

Maximum Marks: 100

### SECTION-I (English)

Pick the most suitable antonyms for the following given bold words from the given options.

1. Galvanize

- A. Oppress      B. Disdain      C. Discourage      D. Stimulate

2. Revulsion

- A. Praise      B. Acclaim      C. Disgust      D. Shock

3. Avarice

- A. Stubborn      B. Greed      C. Grace      D. Callous

4. Intrepid

- A. Fearless      B. Timid      C. Timorous      D. Immovable

5. Decipher

- A. Scramble      B. Encode      C. Untangle      D. Challenge

Pick the most suitable Synonym for the following given bold words from the given options.

6. Extremity

- A. Extra      B. Core      C. Central      D. Fringe

7. Invidious

- A. Odious      B. Fair      C. Repellent      D. Offensive

8. Stringent

- A. Stern      B. Austere      C. Flexible      D. Severe

9. Tranquil

- A. Courageous      B. Resolute      C. Calm      D. Infuriate

10. Piercing

- A. Shrill      B. Mild      C. Penetrating      D. Deafening

—x—

Choose the word or phrase that best completes the sentence.

11. The institution was closed \_\_\_\_ for some unknown reasons.  
A. In      B. With      C. Into      D. Down
12. The stone was worn \_\_\_\_ by the wind.  
A. Away      B. Up      C. Down      D. Over
13. After the riots, the police rounded \_\_\_\_ all suspects.  
A. In      B. Up      C. On      D. Over
14. I went to ask \_\_\_\_ his ill mother.  
A. For      B. With      C. On      D. For
15. This fashion will die \_\_\_\_ very soon.  
A. Away      B. Into      C. Down      D. Out

Choose the right option for the following:

16. While some of the information in the book will be shocking to readers, most of what the author writes is really quite \_\_\_\_.  
A. Dubious      B. Immoral      C. Banal      D. Interesting
17. The final proposal represented a \_\_\_\_ of the committee's ideas; the opinions and perspectives of the diverse members were each taken into account.  
A. Synthesis      B. Repetition      C. Failure      D. Revision
18. Although a few of the plot twists in her novel were unexpected, overall the major events depicted in the work were \_\_\_\_ enough.  
A. Lively      B. Predictable      C. Creative      D. Complex
19. A recent poll shows that while 81% of college students are eligible for some form of financial aid, only 63% of these students are \_\_\_\_ such aids.  
A. Playing for      B. Dissatisfied with      C. Recipient of      D. Playing for
20. Although this strain of bacteria has \_\_\_\_ effects on certain animal, scientists have found no evidence that it is harmful to humans.  
A. Deleterious      B. Constrained      C. Salutary      D. regenerative

#### SECTION-II (Everyday Science)

21. The area of land that is surrounded by water on three sides is called:

- A. Oasis      B. Peninsula      C. Steppe      D. Lagoon

22. Mass of earth is:

- A.  $5.9742 \times 10^{24}$  Kg      B.  $5.9742 \times 10^{25}$  Kg      C.  $5.9742 \times 10^{26}$  Kg      D.  $5.9742 \times 10^{27}$  Kg

23. Who is considered a pioneer of optics?

- A. Al-Biruni      B. Abu al-Qasim      C. Al-Khwarizimi      D. Ibn al-Haytham

24. The unit of frequency is:

- A. Joule      B. Hertz      C. Watt      D. Ohm

25. Which part of the body produces insulin?

- A. Liver      B. Kidney      C. Pancreas      D. Lungs

26. Which of the following disease is not related to respiratory system?

- A. Hepatitis      B. Bronchitis      C. Asbestosis      D. Tuberculosis

27. Ascorbic acid is also known as:

- Vitamin C      B. Vitamin D      C. Vitamin K      D. None of these

28. Radio was invented by:

- A. Von Platen      B. Nikola Tesla      C. James Watt      D. B. Franklin

29. Yard, an imperial unit of length is equivalent to:

- A. 0.9130 meter      B. 0.9135 meter      C. 0.9140 meter      D. 0.9144 meter.

30. An instrument that is used for measuring sound under water is known as:

- A. Hydrometer      B. Hygrometer      C. Hydrophone      D. Galvanometer

### SECTION-III (Islamic Studies)

31. How many names of the Holy Quran have been derived by the scholars from different Ayats?

- A. 45      B. 55      C. 60      D. 65

32. How many verses Sura Kausar has?

- A. 1      B. 2      C. 3       D. None of these

33. In which year of prophet hood, the Holy Prophet married Hazarat Aisha?

- A. 8<sup>th</sup> A.H      B. 9<sup>th</sup> A.H      C. 10<sup>th</sup> A.H      D. 12<sup>th</sup> A.H

34. In which year, the battle of Hunnain was fought?

- A. 8<sup>th</sup> A.H      B. 9<sup>th</sup> A.H      C. 10<sup>th</sup> A.H      D. 11<sup>th</sup> A.H

35. Which holy book was revealed to Hazarat Daud?

- A. Tourat      B. Zabur      C. Injeel      D. None of these

36. The act of stoning the devil during Hajj is called:

- A. Sayi      B. Rami      C. Jamarat      D. Istilam

37. Who is the mother of Hazarat Ibrahim (the son of the Holy Prophet Mohammad PBUH)

- 4 -

A. Hazrat Khadija (AS)      B. Hazrat Ayesha (AS)      C. Hazrat Salma (AS)      D. Hazrat Maria (AS)

**38.** When was Hazarat Usman assisinated?

A. 30 Hijri      B. 35 Hijri      C. 40 Higri      D. 45 Higri

**39.** Fasting was made obligatory for the Muslims in:

A. 2 Hijri      B. 3Hijri      C. 4 Hijri      D. 5 Hijri

**40.** What is the name of the plain that lies between Makkah and Arafat?

A. Hira      B. Mutaf      C. Muzdalifa      D. Mina

#### SECTION-IV (Kashmir Studies)

**41.** Where precious stone ruby is found in AJK?

A. District Neelum      B. District Haveley      C. District Bagh      D. District Poonch

**42.** How many degree colleges were there in AJK in 1947?

A. 3      B. 4      C. 6      D. None

**43.** Sultan Zain-ul-Abadin Bud Shah passed away in the year:

A. 1470      B.1475      C. 1477      D. 1479

**44.** Sri Nagar – Muzaffarabad bus service started in:

A. 2004      B. 2005      C. 2006      D. None of These

**45.** Delhi Accord was signed by Indra Ghandhi and

A. Abdul Qayyum Khan      B. Sheikh M. Abdullah      C. Sardar Ibrahim Khan      D. K.H. Khurshid

**46.** Mir Waiz Molana Mohammad Yousaf Shah joined Muslim Conference in

A. 1930      B. 1934      C. 1938      D. 1942

**47.** When Muzaffarabad was made the capital of AJ&K?

A. 1947      B. 1948      C. 1949      D. 1950

**48.** Who was the second president of AJ&K?

A. Ali Ahmed Shah      B. K.H. Khursid      C. Ibrahim Khan      D. Sher Khan

**49.** Liberation League was established in:

A. Mirpur      B. Rawalpindi      C. Muzaffarabad      D. Islamabad

**50.** How far is the Kohala Bridge from the capital city of AJK?

A/ 28 Km      B. 30 Km      C. 35 Km      D. 40 Km

**51.** A well know book "Mata-e- Zindagi" was written by

A. Sheikh M. Abdullah      B. Abdul Qayyum Khan      C. K.H. Khurshid      D. Sardar Ibrahim Khan

- 4 -

52. How many women are sitting at the moment in the legislative Assembly of AJ&K?

- A. 5      B. 6      C. 7      D. 8

53. The state of AJ&K is divided into how many divisions?

- A. 3      B. 5      C. 7      D. 10

54. What is the power generation capacity of Neelum Jehlum Hydral Project?

- A. 950      B. 955      C. 960      D. 969 MW

55. Who is the chief justice of Supreme Court of AJ&K?

- A. Mustafa Mughal      B. Azam Khan      C. Ibrahim Zia      D. None of them

#### SECTION-V (Pak Studies)

56. Name The Battle of Plessey was fought in

- A. 1757      B. 1758      C. 1857      D. None of these

57. Who is known as the architect of Pakistan?

- A. Quid-e-Azam      B. Ch. Rehmat Ali      C. Allama Iqbal      D. Liaqat Ali Khan

58. Now or Never, a short pamphlet was published in

- A. 1930      B. 1931      C. 1932      D. 1933

59. Lahore Resolution was proposed by

- A. A. K. Fazal ul Haq      B. Ch. Rehmat Ali      C. Sir Aga Khan      D. Khalique uz Zaman

60. In 1942, Full and complete independence at the end of the war was promised by

- A. Lord Irwin      B. Viscount Simon      C. Winston Churchill      D. Sir Stafford Cripps

61. The first Round Table Conference was held in

- A. 1929      B. 1930      C. 1931      D. 1932

62. The All India Muslim Educational Conference was established in

- A. 1866      B. 1867      C. 1868      D. 1869

63. When was the first constitution of Pakistan framed?

- A. 1948      B. 1956      C. 1962      D. None of these

64. Where is Qaddafi Stadium located?

- A. Karachi      B. Lahore      C. Faisalabad      D. Multan

65. Who is known as "The Hafiz" of the Pashto Language

- A. Rahman Baba      B. Khushhal Khan Khatak      C. Amir Kror Suri      D. Hamza Baba

66. The distance between Manjodaro and Harapa is about

- A. 600Km      B. 700Km      C. 750 Km      D. 800Km

67. The first census in Pakistan was held  
A. 1950      B. 1951      C. 1956      D. 1961
68. The religion of the people of Ghandara civilization was  
A. Budh mat      B. Hindu mat      C. Islam      D. Jews
69. Who is the governor of Punjab?  
A. Rana Iqbal      B. Ch. Sarwar      C. Salman Taseer      D. Rafique Rajwana
70. Who is the chief of Air Staff?  
A. Rao Qammar Suleman      B. Tanvir Ahmed      C. Sohail Aman      D. Tahir Rafique Butt

#### SECTION-VI (Current Affairs)

71. Which of the following countries is the recent Football Olympic Champion?  
A. Germany      B. France      C. Brazil      D. America
72. The President of which Islamic country passed away recently?  
A. Qatar      B. Uzbekistan      C. Tajikistan      D. Sudan
73. Who was the man of the match in the last test match against England at Oval?  
A. Younis Khan      B. Yasir Shah      C. Sarfraz      D. None of these
74. Who is the minister of health in the state of AJ&K?  
A. Mir Akbar      B. Najeeb Naqi      C. Qammar Zaman      D. Iftikhar Gilani
75. Who is the Prime Minister of Canada?  
A. Stefan Lofven      B. John Key      C. Justin Trudeau      D. Malcolm Turnbull
76. Name the capital city of Norway.  
A. Oslo      B. Brussels      C. Helsinki      D. Vienna
77. Swahili is a well-known language of  
A. Australia      B. Asia      C. Africa      D. America
78. Fatah Ullaha Golan basically belongs  
A. Egypt      B. Turkey      C. America      D. Syria
79. Which is the biggest rice producing country in the world?  
A. China      B. India      C. Bangladesh      D. Pakistan
80. The smallest country in the world is  
A. San Marino      B. Nauru      C. Monaco      D. Vatican City

#### SECTION-VII (Urdu)

- مشہور اور وادی "قائن آزاد" کے نول کا ممکن ہے۔  
-81
- میتازِ حق - C. شرکتِ صداقت - B. قلنچہ سرشار - A.
- خوبیہ میں الدین کے ایک بیٹے نوال زارتے کا ہم ہے۔  
-82
- تھیسِ باتیں - A. رحمتِ ہبہ - B. گن بیڑا - C. لاوارث - D.
- "اردو کی آخری کتاب" کے صفت کا نام کیا ہے۔  
-83
- جبل الدین عالیٰ - A. کتاب - B. علی - C. این انتہا - D.
- نول کے پہلے فلم کیا کہتے ہیں۔  
-84
- متسلسل - C. سن مطلع - B. مطلع - D. قفسہ - A.
- مشہور قلم "آدمی ہاس" کے شاعر کا نام تائیں۔  
-85
- اکبر آزادی - A. نغمہ اکبر آزادی - B. الطافِ حسین عالیٰ - C. ضمیرِ غفری - D.
- ایسی لمحہ کیا کہتے ہیں جس میں کسی زندہ شخص کی بہادری، جرات، قواعد یا دیگر اوصاف کیتے گئے ہوں۔  
-86
- رہنمی - A. قیدہ - B. مرتبہ - C. مشکوی - D. رہنمی - A.
- حروف کی کتنی اقسام ہیں۔  
-87
- ایک - A. تین - B. " " - C. چار - D.
- فوس کا انتہا کرنے کی حروف سے وہ کہا ہے۔  
-88
- حروفِ اندراک - A. حروفِ مدائیہ - B. حروفِ جوب - C. حروفِ نائب - D. حروفِ اندراک
- استخارے میں جو لذت اور حاصل یا جائے اسے کیا کہتے ہیں۔  
-89
- معذارانہ - A. مستخارانہ - B. طرفین استخارہ - C. مستخارانہ - D. درج جائز۔
- "اس کے گر کا دروازہ ہیش کھلا رہتا ہے" میں طمیان کی کون کی صورت استعمال ہوئی ہے۔  
-90
- کنایہ - A. تشبیہ - B. استغفار - C. مجازِ مرسل - D. کنایہ۔
- نول پہاڑ کردن "کس شاعر کا بگود کلام ہے۔  
-91
- ہسر کاغذی - A. ہسر کاغذی - B. اندر بیوی - C. اندر بیوی - D. لیش اور لیش۔

92۔ "ایں مریم" اکرے کوئی۔ بھرے دکھلی، "واکرے کوئی" میں کوئی صفت استعمال کی ہے۔

صفت میان۔ -D صفت مہاں۔ -C صفت بہتر۔ -B صفت ترجم۔ -A

کس کا شہر ہے "تم بھرے پاس ہو گئے" جب کوئی درج نہیں ہے۔

نائب۔ -D حال۔ -C مومن۔ -B داکن۔ -A

جس چیز کو کسی دوسری چیز سے تھوڑے دی جائے اُسے کہا کہتے ہیں۔

فرفخن آٹھیہ۔ -D فرض آٹھیہ۔ -C وجہ۔ -B وجہ۔ -A

مشہور تحریف "سیرت انہیں" کے صرف کام کیا ہے۔

ڈاکنڈیز آنا۔ -D خوبصورت آزاد۔ -B علمائی انجمنی۔ -C خوبصورت آزاد۔ -A

سلف سے کیا مراد ہے۔

کوئی بھی نہیں۔ -D تاریخ داں۔ -C تجھے۔ -B آپ دا ابداد۔ -A

سری دل کا نیں اور ایک کالپی کو۔

کوئی بھی نہیں۔ -D گئے۔ -C گئی۔ -B گئی۔ -A

تاریکی۔ ..... کتنی ہی گری ہو، مجھ ہو کر رہے گی।

اگرچہ۔ -D چاہے۔ -C خواہ۔ -B بے شک۔ -A

خطمیں "روں" کا لکھا جائے تو ٹھیں ۲۶ ہے۔

میہول۔ -D معروف۔ -C بن۔ -B واحد۔ -A

"جلدی آپاوا" کے آخر میں ملامت آئی ہے۔

نمایی۔ -D رابط۔ -C ذرخ۔ -B قسمیں۔ -A