

ALL ANSWERS MUST BE GIVEN ON THE ANSWER SHEET
BY CROSSING THE CORRESPONDING LETTER

Part 1: MATHEMATICS M.C.Q's

Number of Mathematics M.C.Q's: 20

Time Allowed: 35 minutes

Questions 1 to 20 on Page Numbers 1 to 5

Negative Marking: No

1. How many hours are there in half of a third of a quarter of a day?
 - A) $\frac{1}{3}$
 - B) $\frac{1}{2}$
 - C) 2
 - D) 1

2. The areas of two similar triangles are 15 sq. cm and 60 sq. cm respectively. If the length of one side of smaller triangle is 5 cm then find the length of the corresponding side of the larger triangle.
 - A) 10 cm
 - B) 20 cm
 - C) 7.5 cm
 - D) 15 cm

3. If a circle is circumscribed on a square with area r^2 . What is the area of circumscribed circle?
 - A) πr^2
 - B) $2\pi r^2$
 - C) $\sqrt{2}\pi r^2$
 - D) $\frac{\pi}{2}r^2$

4. The area of a rectangle whose length is twice as its breadth is 72 sq.cm. Find its length.
 - A) 12
 - B) 6
 - C) 36
 - D) 18

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5. The average of 9 observations was 9, that of the first of 5 being 10 and that of the last 5 being 8. What is the 5th observation?
- A) 10
B) 9
C) 8
D) 7
6. Nida cuts a sheet of paper into 10 pieces. Then she took one piece and cut it again to 10 pieces. She went on cutting in the same way three more times. How many pieces of paper did she have after the last cutting?
- A) 36
B) 40
C) 46
D) 50
7. One person has 2004 marbles. Half of them are blue, one quarter are red, and one sixth are green. How many marbles are of some other colour?
- A) 150
B) 167
C) 334
D) 501
8. Three cubical dice are rolled. What is the probability that all the three faces show the same number?
- A) $\frac{1}{36}$
B) $\frac{1}{216}$
C) $\frac{5}{36}$
D) $\frac{5}{216}$

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9. A coin is tossed five times. What is the probability that there is at least one head?
- A) $15/16$
B) $31/32$
C) $1/32$
D) $1/2$
10. Solve $9^x - 9(3)^x = 0$ for x
- A) 0
B) 1
C) 2
D) -1
11. A watchman works 4 days a week and has a rest on the fifth day. He had been resting on Sunday and began working on Monday. After how many days will his rest fall on Sunday?
- A) 34
B) 31
C) 12
D) 7
12. How many two-digit numbers exist whose square and cube end in the same digit?
- A) 9
B) 10
C) 21
D) more than thirty
13. The average of 16 different positive integers is 16. What is the largest possible value that one of the integers could have?
- A) 23
B) 136
C) 156
D) 256

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14. A positive number is multiplied by 0.5 and then multiplied by $\frac{1}{3}$, then the resultant is squared which is added to 1. Find the number if the result is 50.
- A) 42
B) 40
C) 30
D) 24
15. A student had the fiftieth best result, and at the same time the fiftieth poorest result, at the test at her school. How many students took part in the test?
- A) 75
B) 99
C) 100
D) 101
16. A store is offering two successive discounts, 50% and 30% respectively. What single discount from the store could be offered in place of above two discounts.
- A) 80%
B) 85%
C) 75%
D) 65%
17. At a school, 50% of the students have bicycles. Of the students who have bicycle, 30% have black bicycles. What percentage of the students of that school have black bicycles?
- A) 15%
B) 20%
C) 25%
D) 40%
18. A sum of money placed at compound interest doubles itself in 4 years. In how many years will it amount to eight times itself.
- A) 16
B) 12
C) 8
D) 6

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19. Four students are selected at random from a chemistry class and classified as male or female. How many possible selections are possible.
- A) 16
B) 12
C) 8
D) 4
20. What will be the difference between compound interest and simple interest at 10% per annum on a sum of Rs.100000 after two years?
- A) 0
B) 500
C) 1000
D) 2000

You've finished Mathematics MCQs.

Please cross (×) Option E in the answer sheet corresponding to all unanswered MCQs.

(Stop. Do not turn over the next page until you are told to do so.)

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PART II: ENGLISH M.C.Q'S

No. of Questions: 20 (from 21 to 40)

Time Allowed: 25 Minutes

Questions on Page Numbers: 6 To 11

Negative Markings: No

For questions 21-30, select the most suitable option.

21. The lodge had a window that looked out upon a beautiful mountain _____.
A) vista
B) melee
C) fray
D) foray
22. The palace's great hall was rich in history and splendor, the walls hung with _____ tapestries.
A) mellifluous
B) malleable
C) illusive
D) ornate
23. After weeks of heavy rains, the earth gave way; mud and trees _____ down the mountain swallowing cars and houses in their path.
A) ascended
B) inculcated
C) aspersed
D) hurtled
24. The _____ butter had been left in the refrigerator for years.
A) complacent
B) scandalous
C) dire
D) rancid
25. Several weeks of extremely hot, dry weather _____ the land, so instead of rowing across a river, we walked across a cracked, parched riverbed.
A) oscillated
B) desiccated
C) subverted
D) coalesced
26. Misbah's _____ workout regimen was the most grueling of all his teammates, and he never took a day off.
A) Spartan
B) spasmodic
C) turgid
D) truculent

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PART II: ENGLISH M.C.Q'S

27. Essa's responses when he spoke on the telephone were _____ and he nearly always made his customers think he was rude.
- A) laconic
B) uncanny
C) suave
D) ponderous
28. I was bored with the _____ conversation of my roommates and longed for some intellectual stimulation.
- A) egregious
B) pronounced
C) vapid
D) exonerating
29. Fareed's fear was _____ as he watched the 60-foot waves approach his little boat.
- A) futile
B) genteel
C) palpable
D) detrimental
30. Moving swiftly and gracefully through the backyard, the cat suddenly _____ when she hit the thorny bush.
- A) recoiled
B) recuperated
C) invigorated
D) throttled

For questions 31-35, based on the two passages (A and B), select the most suitable option.

Passage A—"An Unwelcome Visitor," a legend of the Iroquois

When the frosts were unlocked from the hillsides there came into one of the villages of the red men a mild and quiet old man whom none of them had ever seen before. He stood beside the field where the young men played at their games, and when some of the fathers approached to bid him welcome to their village and wigwams they saw that his body was covered with sores, and they made excuses to turn aside that they might not meet him. When none went to him and called him brother, he turned to the village and walked slowly from door to door of the wigwams. The women saw him and as he approached their doors they covered their children's faces that they might not see his features, and wished in their hearts that he would not enter. When the little man read their thoughts, with saddened eyes and heavy steps he would turn away and seek another habitation, where he would again see that he was not welcome and turn his

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weary footsteps from the door. When he had visited all the wigwams in the village without finding a welcome in any, he went suddenly to the forest and they saw him no more.... [1]

Finally, there remained but two more villages to visit and he feared that he should find none who would bid him enter their homes that they might **minister** to his wants. At last, however, as he approached a humble cabin his eyes brightened, for he read in the heart of the woman who saw him coming that she had taken pity on his forlorn condition and that her hospitality would overcome the dread his appearance caused. Said the woman: "Thou art welcome, my brother, for thou art a stranger." Then said the strange man: ... "Listen, my sister: Thou of all thy race hast had in thy heart pity and love for a suffering and friendless creature that have led thee to give him shelter in thy house. Know then, my sister, that thy name shall henceforth be great. Many wonders shall be taught thee, and thy sons will be made chiefs and thy daughters princesses. I am Quarara, and bear messages from the Great Spirit." Then Quarara described to the woman a plant which she went forth into the forest and **procured**. She returned to the hut and prepared it as he bade her, and when it was administered to him he recovered from his sickness and the sores left him. Quarara remained at the woman's wigwam **many moons** and brought upon himself all manner of fevers, plagues and diseases, and for each one he described the medicine root or herb that would perform its cure.... Then said the strange man, Quarara, to her: "Thou, Oh! sister, knowest now what the Great Spirit would have thee teach his children freely. Thou hast been patient and kind and thy heart is filled with gentleness. Thy family shall be called Sagawahs, the healers, and thou and thy family shall be remembered throughout all generations [2]

Passage B—"The Boy and His Grandfather," a tale of the Southwest

In the old days it was not unusual to find several generations living together in one home. Usually, everyone lived in peace and harmony, but this situation caused problems for one man whose household included, besides his wife and small son, his elderly father. It so happened that the daughter-in-law took a dislike to the old man. He was always in the way, she said, and she insisted he be removed to a small room apart from the house. Because the old man was out of sight, he was often neglected. Sometimes he even went hungry. They took poor care of him, and in winter the old man often suffered from the cold.

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PART II: ENGLISH M.C.Q'S

One day the little grandson visited his grandfather. "My little one," the grandfather said, "go and find a blanket and cover me. It is cold and I am freezing." The small boy ran to the barn to look for a blanket, and there he found a rug. "Father, please cut this rug in half," he asked his father. "Why? What are you going to do with it?" "I'm going to take it to my grandfather because he is cold." "Well, take the entire rug," replied his father. "No," his son answered, "I cannot take it all. I want you to cut it in half so I can save the other half for you when you are as old as my grandfather. Then I will have it for you so you will not be cold." His son's response was enough to make the man realize how poorly he had treated his own father. The man then brought his father back into his home and ordered that a warm room be prepared. From that time on he took care of his father's needs and visited him frequently every day. [1]

31. What is it that keeps the villagers from greeting the old man in Passage A?

- A) He is a stranger.
- B) He is old.
- C) He is covered with sores.
- D) They are unfriendly.

32. The word "minister" (Passage A, paragraph 2) is used to mean

- A) mind
- B) tend
- C) assemble
- D) preach

33. The word "procured" (Passage A, paragraph 2) means

- A) obtained
- B) captured
- C) dried
- D) restored

34. One difference between Passage A and Passage B is that

- A) Passage A takes place in the past
- B) people in Passage B ignore an old man
- C) people in Passage A ignore an old man
- D) Passage A deals with illness as well as age

35. The woman in Passage A and the man in Passage B learn that

- A) illness is not a crime
- B) respecting one's elders can be beneficial
- C) children may understand more than adults
- D) Both A and B

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PART II: ENGLISH M.C.Q'S

For Questions 36-40, select the option that best summarizes the passage.

36. The future is something that many people, especially young ones, worry about. Our elders tell us that making correct decisions about our futures is very important and making a mistake can ruin us forever. However, when one looks at the records, those people who have taken chances and tried to do things their own way, tend to make out much better than those who do things the way the system expects.
- A) Making decisions about the future should be the right of the person who will be living that life.
 - B) Taking risks is not considered to be the correct way of planning ones future and could cause failure.
 - C) Parents tell their children to plan their futures as the social and cultural rules advice.
 - D) Although it is generally felt that people should not take risks, many people who do have proved that being different is not always wrong.
37. Although we did not know who she was or where she had come from it was easy to guess that she had some type of royal blood in her veins. The English she spoke was so carefully precise that she could not possibly be a native speaker. Her graceful movements and confident gestures indicated power and control. All in all, the appearance she presented was very impressive.
- A) We were not able to learn anything about this woman.
 - B) This woman was of rich and royal heritage.
 - C) This woman made us think that she was wealthy.
 - D) This unknown woman had a manner that impressed those who met her.
38. There are many different reasons why a poet writes poetry. I would suppose that some write poems for themselves and to please their own senses. Others, however, write to share thoughts, or rather feelings with others. Most poems are meant to appeal to the heart and senses rather than to the mind and reason.
- A) Poets usually write poems to share their thoughts with other people.
 - B) Poets write poems for themselves and for others.
 - C) Poems are not written for the mind they are written for the heart.
 - D) Among the different reasons for writing poetry, the need to express emotions is probably the strongest motive for most poets.
39. War is one of the most terrible parts of human history. Death, destruction, and pain, both physical and emotional, are the primary results of war. Still man seems to be incapable of doing without it.
- A) As bad as it is, man likes to make war.
 - B) People have no gain from war but are unable to stop it.
 - C) The death and misery that war produces is not enough to stop man from fighting.
 - D) No one wants to fight a war.

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PART II: ENGLISH M.C.Q'S

40. Our world seems to be changing too fast to keep up with. In my youth, life was simple. Our parents worried about feeding and educating us. We worried about simple things like school and friends. Today however, children have become selfish and materialistic.
- A) Life changes people as they grow.
 - B) Everyone changes with time.
 - C) The world makes people selfish as they grow older.
 - D) Time has changed the needs and attitudes of people.

This is the end of English MCQs.

If you finish before time is called, you may check your work on this section only.

Please cross (X) Option E in the answer sheet corresponding to all unanswered MCQs.

Next is Essay Questions (To be attempted on separate Essay Script using pen).

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PART III: PSYCHOLOGY M.C.Q'S

Number of Psychology MCQ's: 30

Page Numbers 1 to 5

Time Allowed: 30 minutes

Negative Marking: No

1. In the process of perception, ____ contains objects of interest
 - a. Ground
 - b. Primitive feature
 - c. Figure
 - d. None of the above
2. The goals of psychology includes:
 - a. Explanation & description of behaviour
 - b. Prediction of behaviour
 - c. Control of behaviour
 - d. All of the above
3. The first psychology laboratory was established by ____ in 1879
 - a. Descartes
 - b. John Locke
 - c. Sigmund Freud
 - d. None of the above
4. With this method relationship between two variables is examined to determine if they are associated or not
 - a. Experiment
 - b. Correlation
 - c. Survey method
 - d. All of the above
5. ____ controls simple functions on its own without any help from the brain
 - a. Spinal cord
 - b. CNS
 - c. Basal ganglia
 - d. None of the above
6. Qualitative research uses _____ approach
 - a. Deductive
 - b. Inductive
 - c. Both
 - d. Neither a nor b
7. In classical conditioning, what is the term for a previously neutral stimulus that after being paired with an unconditioned stimulus, elicits a response?
 - a. Unconditioned response
 - b. Conditioned stimulus
 - c. Neutral stimulus
 - d. Conditioned response

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PART III: PSYCHOLOGY M.C.Q'S

8. According to Maslow's hierarchy of needs, which category of needs must be fulfilled first?
- Self-actualization
 - Esteem needs
 - Love and belongingness
 - Physiological needs
9. There is a relationship between parenting style and creativity of a child. This statement depicts _____ type of hypothesis
- Directional
 - Non-directional
 - Null
 - Alternate hypothesis
10. According to behaviorism, how is behavior primarily shaped?
- by conscious decision making
 - by internal mental processes
 - by environmental stimuli and reinforcement
 - by genetic predisposition
11. Which neurotransmitter is associated with feelings of pleasure and reward?
- Serotonin
 - Dopamine
 - GABA
 - Acetylcholine
12. Which perspective in psychology emphasizes the role of unconscious conflicts in shaping behavior and personality?
- Humanistic perspective
 - Psychodynamic perspective
 - Behavioral perspective
 - Cognitive perspective
13. A researcher is studying long working hours and fatigue, which could be the extraneous variable:
- Tiredness
 - Education
 - Workload
 - Mood swings
14. Language deficits caused by brain damage
- Aphasia
 - Prosopagnosia
 - Alogia
 - All the above
15. Which is NOT an ethical obligation in psychological research?
- Confidentiality
 - Informed consent
 - Identification of the participant
 - Voluntary participation

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PART III: PSYCHOLOGY M.C.Q'S

16. Which of the following is NOT a subfield of psychology
- cognitive psychology
 - sociology
 - developmental psychology
 - clinical psychology
17. The researcher should take an approval prior to conducting the study from:
- Previous researchers of the same topic
 - Organization where the research is conducted
 - Subject/course facilitator
 - All of the above
18. A study examining the prevalence of depression amongst a defined population. The researcher can evaluate people of different ages, ethnicities, geographical locations, and social backgrounds is an example of:
- Explanatory research
 - Descriptive research
 - Cross-sectional research
 - Policy research
19. The tendency to conform to group pressure, even when the group is clearly wrong was demonstrated in which famous experiment?
- Milgram's obedience study
 - Zimbardo's Stanford prison experiment
 - Asch's conformity experiment
 - Bandura's Bobo doll experiment
20. A nonrandom sample in which the researcher selects anyone he or she happens to come across is called
- Accidental
 - Convenience
 - Haphazard
 - All of the above

This is the end of Psychology MCQs

If you finish before time is called, you may check your work on this section only.

**Please cross (X) Option E in the answer sheet corresponding to all unanswered MCQs.
Next is Essay Questions (To be attempted on separate Essay Script using pen).**

(STOP! Do not move to the next page unless you are asked to do so)

ESSAY QUESTIONS MUST BE ATTEMPTED ON ESSAY SCRIPT**Part IV: PSYCHOLOGY ESSAY QUESTIONS**

Time Allowed: 30 minutes

Negative Marking: No

Essay question – 10 marks**Note: Please attempt essay questions on Essay Script given separately using pen.**

Q1. In the light of your practice of synopsis development in the class, design a study and mention all the key elements that are mentioned in the template provided:

Research evidence also indicated that warm, compassionate and supportive parents have a key role in the development of interpersonal and social skills and social competence (Jeon & Nepple, 2019; Leidy, Guerra & Toro, 2010). However, punitive, controlling, and rejecting parents significantly contribute to the development of interpersonal and social difficulties in children (Saleem et al., 2019). Skinner (1969) and Bandura (1992) claim that children learn faulty behaviours through modelling and imitating socially deviant models at home, school and social groups. Bowlby (1982) also posited parental attachment as the basic biological need that is essential for the survival of the children, and they develop an internal model based on the emotional bond with primary caregivers like mothers which consequently influence the social relationships of the children. To conclude adolescence is the most crucial developmental period during which an individual learns emotional and social skills to cope with the challenges of this transitory period. Increased prevalence of mental health issues has attained the focus of researchers to explore the protective and risk factors of internalizing-externalizing problems in adolescents. Therefore, the existing study was aimed at identifying the role of parental rearing styles and interpersonal problems in internalizing-externalizing problems in Pakistani adolescents. Pakistan is a collectivist society in which familial values, norms, conformity and cohesion are preferred (An & Eggum-Wilkens, 2019; Germani et al., 2020; Nadeem et al., 2018; Zahra & Saleem, 2021). In this socio-cultural environment, the role of parents becomes even more crucial which demonstrates a long-lasting effect on growth and development of their children (Saleem et al., 2017).

ATTEMPT THREE QUESTIONS (The question on 'Ethical Obligations' is mandatory. Attempt two additional questions of your choice). Please write the full question before composing your answer to clearly indicate which question you are attempting.

1. **Research Design:** Quantitative survey
2. **Sample:** adolescents, age, gender, parents and family dynamics,
3. **Measures:** scales on parenting style, interpersonal scale (internalizing-externalizing)
4. **Ethical Obligations:** confidentiality, privacy, voluntary participation, consent (from whom), withdrawal right, no harm intended.

(you cannot go back to the previous sections)