Assistant Director, Ministry of Defence (BS-17) — 2019 · Solved Past Paper

Body: Federal Public Service Commission (FPSC) · **Post:** Assistant Director, Ministry of Defence (BS-17) · **Year:** 2019 · **Questions:** 100 in the original paper — **96 solved and verified**, 4 excluded as defective (Q31, Q33, Q54, Q62) · **Price:** Free

> **How to use this paper:** each question shows the stem, the four options, and the correct answer. Click “Why each option?” under a question to see all four options explained — one question teaches four topics. General Knowledge answers are as of the 2019 sitting.

Source note: doc4shares.com reproduction of the genuine FPSC question booklet, "FPSC Written Test for Recruitment to the Post of Assistant Director MOD 2019 Past Paper" (Google Drive file 1cNouj9kcON2H-TKhpgK8o9pI6hYpvZTC, accessed 13 Nov 2026; 13 pages, English Q1-Q40, General Knowledge Q41-Q75, Mathematics Q76-Q100; every question carries five options A-E including (E) None of these, with a tick-marked key). Identity confirmed by the Imtiaz Shahid FPSC book (Ed 61), Model Paper 8 (NTS Assist Director MoD 2019). 12 printed keys corrected openly (Q14 C to D; Q21 C to E; Q22 B to E; Q49 B to A; Q55 A to C; Q57 B to C; Q61 A to C; Q65 D to C; Q69 C to B; Q73 B to D; Q81 D to C; Q88 D to B), 6 PICK-ONE (Q35, Q38, Q43, Q50, Q71, Q72) and 4 DEFECTIVE-excluded (Q31, Q33, Q54, Q62), all decided by the assistant under the owner's 8 Nov 2026 delegation. The (E) None of these option is dropped and each question is filed with four options, except Q21 and Q22, whose filed answer is E and which are filed with all five options.

Question 1 English

Choose the synonym of: A bolt from the blue

luck

- B. God sent gift
- C. A feared event
- D. Sudden unwelcome event ✓ **Correct answer**

Note: A bolt from the blue means something sudden and unexpected, especially unwelcome news; a sudden unwelcome event is the closest synonym.

Question 2 English

Choose the synonym of: Ape

- A. To taunt
- B. Cheapen
- C. Mimic ✓ **Correct answer**
- D. Steal

Note: To ape someone is to imitate or mimic them.

Question 3 English

Choose the synonym of: Callous

- A. Liberal
- B. Ignorant
- C. Responsible
- D. Insensitive ✓ **Correct answer**

Note: Callous means emotionally hardened and insensitive to the feelings of others.

Question 4 English

Choose the synonym of: Harmonious

- A. Jarring

erent ✓ **Correct answer**

- C. Happy
- D. Playful

Note: Harmonious means forming a pleasing, coherent whole; coherent is the closest synonym.

Question 5 English

Choose the synonym of: Lurid

- A. Sensational ✓ **Correct answer**
- B. Nonsensical
- C. Esoteric
- D. Unrealistic

Note: Lurid means vivid in a shocking or sensational way; sensational is the closest synonym.

Question 6 English

Choose the synonym of: Abeyance

- A. Suspended action ✓ **Correct answer**
- B. To repeal
- C. Stolen goods
- D. Complex

Note: Abeyance is a state of temporary suspension or inactivity; suspended action is the closest meaning.

Question 7 English

Choose the synonym of: Abominate

- B. To hate extremely ✓ **Correct answer**
- C. Harsh
- D. Impure

Note: To abominate is to detest or hate something intensely.

Question 8 English

Choose the synonym of: Abrogate

- A. Forgive
- B. Sour
- C. Annul ✓ **Correct answer**
- D. To mix

Note: To abrogate a law or agreement is to repeal or annul it.

Question 9 English

Choose the synonym of: Abstemious

- A. Difficult
- B. Enjoyed
- C. Refraining from pleasure ✓ **Correct answer**
- D. Impure

Note: Abstemious means sparing or moderate, especially in eating and drinking; refraining from pleasure is the closest meaning.

Question 10 English

Choose the synonym of: Myth

- A. Set apart

most

- C. Support
- D. Fictitious story ✓ **Correct answer**

Note: A myth is a traditional story, often fictitious, explaining natural or social phenomena; a fictitious story is the closest synonym.

Question 11 English

Choose the antonym of: Jaundiced

- A. Inflamed
- B. Aged
- C. Unbiased ✓ **Correct answer**
- D. Quickened

Note: Jaundiced means biased by resentment or envy; its opposite is unbiased.

Question 12 English

Choose the antonym of: Robust

- A. Weak ✓ **Correct answer**
- B. Vicious
- C. Violent
- D. Hungry

Note: Robust means strong and healthy; its opposite is weak.

Question 13 English

Choose the antonym of: Turpitude

- A. Quiet
- B. Virtue ✓ **Correct answer**

- D. Liberty

Note: Turpitude means depravity or wickedness; its opposite is virtue.

Question 14 English

Choose the antonym of: Secular

- A. Punitive
- B. Varying
- C. Positive
- D. Clerical ✓ **Correct answer**

Note: PRINTED-KEY CORRECTION (key C to D): secular means not connected with religion; its opposite is religious, and Clerical (relating to the clergy) is the religious option, while Positive has no antonymic relation to secular.

Question 15 English

Choose the antonym of: Unruly

- A. Obedient ✓ **Correct answer**
- B. Definite
- C. Lined
- D. Chatting

Note: Unruly means disorderly and hard to control; its opposite is obedient.

Question 16 English

One who always looks at the bright side of things

- A. Optimist ✓ **Correct answer**
- B. Profitable

anthropist

- D. Voluntary

Note: An optimist is a person who always looks at the bright side of things.

Question 17 English

That which can not be heard

- A. Inexplicable
- B. Low
- C. Drown
- D. Inaudible ✓ **Correct answer**

Note: Inaudible means unable to be heard.

Question 18 English

A man who eats human being

- A. Illiterate
- B. Cannibal ✓ **Correct answer**
- C. Criminal
- D. Arsenal

Note: A cannibal is a person who eats human flesh.

Question 19 English

That which can not be repaired

- A. Bankrupt
- B. Illegal
- C. Ignorant
- D. Irreparable ✓ **Correct answer**

rable means not able to be repaired or put right.

Question 20 English

Medicine that counteracts effects of poison

- A. Insolvent
- B. Fatal
- C. Antidote ✓ **Correct answer**
- D. Obsolete

Note: An antidote is a medicine that counteracts the effects of a poison.

Question 21 English

General public in Pakistan respected General Musharraf for his fairness in take over (underlined word: respected)

- A. Cherished
- B. Disesteem
- C. Obeyed
- D. Emulated
- E. None of these ✓ **Correct answer**

Note: PRINTED-KEY CORRECTION (key C to E): respected means admired or esteemed; none of Cherished (loved dearly), Obeyed (complied with) or Emulated (imitated) means respected, and Disesteem is its opposite, so by the question's own rule the answer is E, None of these.

Question 22 English

The Constitution of Pakistan guarantees against unreasonable search and seizure without warrant (underlined word: warrant)

- A. Sponsor

- C. Stipulation
- D. Contribution
- E. None of these ✓ **Correct answer**

Note: PRINTED-KEY CORRECTION (key B to E): a warrant is an authorisation; none of Sponsor, Guarantee, Stipulation or Contribution means authorisation, so by the question's own rule the answer is E, None of these.

Question 23 English

Doctors in United States have the tendency toward specialized field in medicine (underlined word: tendency)

- A. Shift
- B. Conduce
- C. Propensity ✓ **Correct answer**
- D. Contribution

Note: Propensity means an inclination or tendency.

Question 24 English

Rather than let the entire body rot and break away by following the constitution, the army amputated a limb and saved the rest of the body (underlined word: amputated)

- A. Broke away
- B. Disassembled
- C. Dismayed
- D. Dismembered ✓ **Correct answer**

Note: To amputate a limb is to cut it off, that is to dismember it.

25 English

The law is very explicit regarding child labour in Pakistan (underlined word: explicit)

- A. Definitive ✓ **Correct answer**
- B. Equivocal
- C. Dark
- D. Implicit

Note: Explicit means stated clearly and definitely; definitive is the closest synonym, while equivocal and implicit are opposites.

Question 26 English

Truth or Love in grammar is ___

- A. Noun
- B. Verb
- C. Abstract noun ✓ **Correct answer**
- D. Concrete

Note: Truth and love are abstract nouns: they name ideas and feelings, not things that can be touched.

Question 27 English

Who, which or what are ___

- A. Relative Pronouns
- B. Interrogative pronouns ✓ **Correct answer**
- C. Indefinite pronouns
- D. Reciprocal pronouns

Note: Who, which and what ask questions, so they are interrogative pronouns.

28 English

A word that expresses an action, an occurrence or a state of being is called ___

- A. Noun
- B. Verb ✓ **Correct answer**
- C. Pronoun
- D. Adjective

Note: A verb is a word that expresses an action, an occurrence or a state of being.

Question 29 English

Friday prayer is ___

- A. Descriptive
- B. Proper ✓ **Correct answer**
- C. Limiting
- D. Article

Note: Friday is a proper noun, so Friday used before prayer is a proper adjective.

Question 30 English

___ is an indefinite Pronoun

- A. My self
- B. This book
- C. Every one ✓ **Correct answer**
- D. Who

Note: Everyone is an indefinite pronoun: it refers to people in general, not to a specific person.

31 English

Which one of the following sentences is correct?

- A. The nurse who was on call quickly aided the patient
- B. The nurse quickly aided the patient who was on call
- C. The nurse on call quickly aided the patient
- D. The nurse quickly aided the patient on call

No answer is given for this question, and none is taught. DEFECTIVE — EXCLUDED, no answer taught (decided by assistant under owner's 8 Nov delegation: A (the nurse who was on call quickly aided the patient) and C (the nurse on call quickly aided the patient) are both fully correct sentences, so there is no unique correct option as printed; the key ticks D.)

Question 32 English

Which one of the following is correct?

- A. He hoped to in the months following the trial write a book
- B. He hoped to write a book in the months following the trial ✓ **Correct answer**
- C. In the months he hoped to write a book following the trial
- D. He hoped in the months following the trial to write a book

Note: Only B has the words in their natural order: he hoped to write a book in the months following the trial.

Question 33 English

Which one of the following sentences is correct?

- A. The poem Iqbal thought he understood thoroughly confused him during the interview
- B. Iqbal thought he understood the poem thoroughly that confused him during the interview

poem, which Iqbal thought he understood thoroughly, confused him during the interview

- D. Iqbal was confused during the interview, the poem that he thought he understood thoroughly

No answer is given for this question, and none is taught. DEFECTIVE — EXCLUDED, no answer taught (decided by assistant under owner's 8 Nov delegation: A (the poem Iqbal thought he understood thoroughly confused him during the interview) is a grammatical garden-path sentence with a reduced relative clause, and C (the poem, which Iqbal thought he understood thoroughly, confused him during the interview) is also fully correct, so there is no unique correct option as printed; the key ticks C.)

Question 34 English

Which one of the following sentences is correct?

- A. If the books belong to the boy, return it
- B. If the books belongs to the boy, return them
- C. If the book belong to the boy, return it
- D. If the book belongs to the boy, return it ✓ **Correct answer**

Note: Only D agrees in number throughout: the book (singular) belongs (singular) and return it (singular).

Question 35 English

Which of the following sentences is incorrect?

- A. We went to the post office and the letters were mailed
- B. We went to the post office and the office mailed the letters ✓ **Correct answer**
- C. We went to the post office to mail the letters
- D. We had gone to the post office to mail the letters

Note: PICK-ONE: A, C and D are all plainly correct sentences, so B (the office mailed the

odd one out the paper intends as incorrect — the office as the agent doing the mailing is the awkward construction — but it is not strictly ungrammatical, so the answer is filed as PICK-ONE per the key.

Question 36 English

Zia has been ___ Lahore since 1990

- A. Residing at
- B. Residing with
- C. Residing by
- D. Residing in ✓ **Correct answer**

Note: The idiom is residing in a place: Zia has been residing in Lahore since 1990.

Question 37 English

Zaki had ___ my conditions and signed the agreement

- A. Access to
- B. Acceded to ✓ **Correct answer**
- C. Abode in
- D. Accommodated

Note: To accede to conditions is to agree to them; Zaki acceded to the conditions and signed the agreement.

Question 38 English

Saleem is always ___ his desires

- A. Active upon
- B. Active in
- C. Active up to
- D. Active for ✓ **Correct answer**

ONE. the key records D (Active for); none of the four prepositional phrases is a standard idiom here, and Active in is a genuine rival, so the key's answer is filed as PICK-ONE.

Question 39 English

Aslam is ___ achieving his goals

- A. Active about
- B. Active in ✓ **Correct answer**
- C. Active with
- D. Active for

Note: Active in achieving his goals is the natural phrase: engaged in working towards them.

Question 40 English

Zara has ___ my proposal for marriage

- A. Agreed to ✓ **Correct answer**
- B. Agreed in
- C. Agreed on
- D. Agreed with

Note: The idiom is agree to a proposal: Zara agreed to the proposal for marriage.

Question 41 General Knowledge

The Quraish are the offspring of which Prophet?

- A. Hezrat Ishaq (AS)
- B. Hazrat Ismael (AS) ✓ **Correct answer**
- C. Hazrat Dawood (AS)
- D. Hazrat Yahya (AS)

uraish descend from Hazrat Ismail (AS) through Adnan.

Question 42 General Knowledge

For how many years did Hazrat Muhammad (P.B.U.H) live in Makkah?

- A. 53 years ✓ **Correct answer**
- B. 50 years
- C. 40 years
- D. 10 years

Note: The Holy Prophet (PBUH) lived in Makkah for 53 years, from his birth in 570 CE to the Hijrah in 622 CE.

Question 43 General Knowledge

Who conquered Iraq?

- A. Hazrat Khalid Bin Waleed
- B. Hazrat Saad Bin Abi Waqas ✓ **Correct answer**
- C. Hazrat Umro Bin Aass
- D. Hazrat Abu Obaide Bin Jarraha

Note: PICK-ONE: the key records B (Hazrat Saad Bin Abi Waqas), who commanded the decisive conquest at Qadisiyyah (636 CE); C (Hazrat Khalid Bin Waleed) is also defensible, as he led the first Muslim campaigns into Iraq/Persia (633 CE). B is filed per the key.

Question 44 General Knowledge

Which Prophet was expert in practical Astronomy?

- A. Hazrat Dawood (AS)
- B. Hazrat Aziz (AS)
- C. Hazrat Idress (AS) ✓ **Correct answer**
- D. Hazrat Mohemmad (P.B.U.H.)

mic tradition Hazrat Idrees (AS) is associated with astronomy and the knowledge of the stars.

Question 45 General Knowledge

Which Prophet laid the foundation of AlAqsa mosque?

- A. Hazrat Mosa (AS)
- B. Hazrat Suleman (AS) ✓ **Correct answer**
- C. Hazrat Zakria (AS)
- D. Hazrat Ibraheem (AS)

Note: In Islamic tradition Hazrat Suleman (AS) built the Al-Aqsa mosque (Masjid al-Aqsa) in Jerusalem.

Question 46 General Knowledge

Who was the chairman of the Boundary Commission for the Subcontinent in 1947?

- A. William Radcliffe
- B. Cyril Radcliffe ✓ **Correct answer**
- C. David Radcliffe
- D. George Radcliffe

Note: Sir Cyril Radcliffe chaired the Boundary Commission that drew the Punjab and Bengal boundaries in 1947.

Question 47 General Knowledge

What was the age of Quaid-e-Azam when he joined All Indian Muslim League?

- A. 27 year
- B. 30 years
- C. 37 years ✓ **Correct answer**
- D. 35 years

-e-Azam Muhammad Ali Jinnah was born in 1876 and joined the All India Muslim League in 1913, aged 37.

Question 48 General Knowledge

Who was the first president of Pakistan?

- A. Gen. Ayub Khan
- B. Ch. Mohammad Ali
- C. Malik Ghulam Mohammad
- D. Sikandar Mirza ✓ **Correct answer**

Note: Sikandar Mirza (Iskander Mirza) became the first President of Pakistan in 1956.

Question 49 General Knowledge

Which Prime Minister of Pakistan had the shortest tenure?

- A. I. I. Chundrigar ✓ **Correct answer**
- B. Gen. Ayub Khan
- C. Malik Feroze Khan Noon
- D. Mohammad Ali Bogra

Note: PRINTED-KEY CORRECTION (key B to A): Ayub Khan was never Prime Minister of Pakistan; I. I. Chundrigar served 17 October to 11 December 1957, just 55 days, the shortest tenure among the listed options (Feroz Khan Noon about 10 months, Mohammad Ali Bogra about 2 years).

Question 50 General Knowledge

Absolute poverty in the urban areas of Pakistan is:

- A. 22%
- B. 25%
- C. 10%

✓ Correct answer

Note: PICK-ONE: the key records D (15%); the urban absolute-poverty figure could not be independently confirmed against a second source, so the key's answer is filed as PICK-ONE.

Question 51 General Knowledge

Mesopotamia is old name of:

- A. Iran
- B. Jordan
- C. Egypt
- D. Iraq ✓ **Correct answer**

Note: Mesopotamia, the land between the Tigris and Euphrates, is the old name of the region of modern Iraq.

Question 52 General Knowledge

Jinnah, the only film on the life of Quaid-e-Azam, was produced by:

- A. Zia Mohyuddin
- B. Akbar S. Ahmad ✓ **Correct answer**
- C. Parvez Iqbal Cheema
- D. Shabab Dehlvi

Note: Jinnah (1998), the film on the life of Quaid-e-Azam, was produced by Akbar S. Ahmed.

Question 53 General Knowledge

What is the Capital of Canada?

- A. Montreal

- C. Ottawa ✓ **Correct answer**
- D. Stockhome

Note: Ottawa is the capital of Canada; Montreal is its largest city in Quebec.

Question 54 General Knowledge

Which one is boundary line between Poland and Germany?

- A. Maginot Line
- B. Durand Line
- C. Hindenburg
- D. Seigfrid Line

No answer is given for this question, and none is taught. DEFECTIVE — EXCLUDED, no answer taught (decided by assistant under owner's 8 Nov delegation: the Poland-Germany boundary is the Oder-Neisse line, which is not among the options (the Maginot Line is French, the Durand Line is Pakistan-Afghanistan, the Hindenburg Line was a First World War German defensive line, the Siegfried Line was Germany's western defence); the key ticks C.)

Question 55 General Knowledge

A good substitute of meat protein is:

- A. Cabbage
- B. Potatoes
- C. Beans ✓ **Correct answer**
- D. Spinach

Note: PRINTED-KEY CORRECTION (key A to C): beans (legumes) are the protein-rich substitute for meat, while cabbage is low in protein (about 1.3 g per 100 g).

56 General Knowledge

What is Autopsy?

- A. A system for digestion and Absorption of food
- B. It is washing way of flesh which is on account of imperfect nourishment
- C. It is post-mortem examination of a body ✓ **Correct answer**
- D. An automobile company in Japan

Note: An autopsy is a post-mortem examination of a body to determine the cause of death.

Question 57 General Knowledge

It is sometimes observed that if boiling water or milk is poured into glass tumbler, it cracks:

- A. Glass being easily heated
- B. Boiling liquid exerting greater pressure
- C. Glass being a bad conductor ✓ **Correct answer**
- D. Glass being transparent in nature

Note: PRINTED-KEY CORRECTION (key B to C): a glass tumbler cracks because glass is a bad conductor of heat, so the inside expands unevenly against the outside (thermal shock); pressure from the liquid is not the cause.

Question 58 General Knowledge

Total amount of blood pumped out of the human heart per minute is about ___ liters

- A. One
- B. Two
- C. Four
- D. Five ✓ **Correct answer**

...human heart pumps about 5 litres of blood per minute at rest (cardiac output).

Question 59 General Knowledge

The hottest part of gas flame is known as the:

- A. Luminous zone
- B. Dark zone
- C. Blue zone ✓ **Correct answer**
- D. Non luminous zone

Note: The blue (non-luminous) zone of a gas flame is the hottest part, where complete combustion occurs.

Question 60 General Knowledge

What should be given to an athlete for instant energy?

- A. Vitamins
- B. Fats
- C. Protein
- D. Carbohydrates ✓ **Correct answer**

Note: Carbohydrates are the body's quickest source of energy and are given to athletes for instant energy.

Question 61 General Knowledge

Which of the following animals has the most ribs?

- A. Whale
- B. Elephant
- C. Snake ✓ **Correct answer**
- D. Zebra

ED-KEY CORRECTION (key A to C): snakes have hundreds of ribs (a pair on nearly every vertebra), far more than a whale (about 14-15 pairs), an elephant (about 19-21 pairs) or a zebra.

Question 62 General Knowledge

Which of the following important countries of Asia is not a member of SAARC?

- A. India
- B. Afghanistan
- C. Nepal
- D. Bangladesh

No answer is given for this question, and none is taught. DEFECTIVE — EXCLUDED, no answer taught (decided by assistant under owner's 8 Nov delegation: Afghanistan joined SAARC in 2007 as its eighth member, so as at the 2019 sitting every listed country was a SAARC member and no option is a non-member; the key ticks B.)

Question 63 General Knowledge

Amnesia is related to loss of:

- A. Blood
- B. Energy
- C. Memory ✓ **Correct answer**
- D. Vision

Note: Amnesia is the loss of memory.

Question 64 General Knowledge

Which is the language with most alphabets?

- A. Hindi
- B. Chinese

- D. Cambodian ✓ **Correct answer**

Note: The Khmer (Cambodian) alphabet has 74 letters, the most of any alphabet.

Question 65 General Knowledge

Where is "Bridge of No return" located?

- A. On the border of Indo china
- B. On the border of India and Bangladesh
- C. On the border of North and South Korea ✓ **Correct answer**
- D. On the border of France and Germany

Note: PRINTED-KEY CORRECTION (key D to C): the Bridge of No Return is at Panmunjom in the Korean Demilitarised Zone, on the border of North and South Korea.

Question 66 General Knowledge

Ergonomics is the Science concerned with the study of:

- A. Forms of living organism
- B. Agricultural economics
- C. Study of man in relation to working environments ✓ **Correct answer**
- D. Study of species of plants

Note: Ergonomics is the study of people in relation to their working environment.

Question 67 General Knowledge

Dong is the currency of?

- A. Vietnam ✓ **Correct answer**
- B. Philippines
- C. Myanmar

Note: The dong is the currency of Vietnam.

Question 68 General Knowledge

Goitre is caused due to deficiency of:

- A. Oxygen
- B. Carbohydrates
- C. Calcium
- D. Iodine ✓ **Correct answer**

Note: Goitre is caused by iodine deficiency.

Question 69 General Knowledge

Africa Fund has been created by:

- A. IMF
- B. NAM ✓ **Correct answer**
- C. OAU
- D. WTO

Note: PRINTED-KEY CORRECTION (key C to B): the AFRICA Fund (Action for Resisting Invasion, Colonialism and Apartheid) was constituted at the 8th summit of the Non-Aligned Movement in Harare in September 1986, so it was created by NAM, not the OAU.

Question 70 General Knowledge

Pedagogy is the science of:

- A. Birds
- B. Space
- C. Pharmacy

ching ✓ **Correct answer**

Note: Pedagogy is the science (and art) of teaching.

Question 71 General Knowledge

About ___ per cent of total calcium present in the human body is in the blood

- A. 3%
- B. 2% ✓ **Correct answer**
- C. 15
- D. 4%

Note: PICK-ONE: the key records B (2%); the standard textbook figure is that about 99% of the body's calcium is in the bones and teeth and about 1% in the blood and soft tissues, so 2% is the closest listed option rather than a confirmed figure.

Question 72 General Knowledge

Name of most polluted city in the world

- A. Tokyo
- B. Mexico ✓ **Correct answer**
- C. Wenchuan
- D. Jakarta

Note: PICK-ONE: the key records B (Mexico); Mexico City was the classic textbook answer for the world's most polluted city, though by 2019 the most polluted cities on measured data were in South Asia (Delhi/Gurugram), which are not listed.

Question 73 General Knowledge

Who invented Telescope?

- A. Jenner

- C. Nicole
- D. Hans Lippershey ✓ **Correct answer**

Note: PRINTED-KEY CORRECTION (key B to D): the telescope was invented by Hans Lippershey, who patented it in 1608; Galileo built his own improved telescope in 1609 but did not invent it.

Question 74 General Knowledge

Who invented tyre?

- A. Dunlop ✓ **Correct answer**
- B. Charles Strite
- C. Farnsworth
- D. John L. Baird

Note: John Boyd Dunlop invented the pneumatic tyre in 1887.

Question 75 General Knowledge

Jaundice is the disease of:

- A. Liver ✓ **Correct answer**
- B. Spleen
- C. Kidney
- D. Lungs

Note: Jaundice is a disease of the liver: it is caused by excess bilirubin from liver dysfunction.

Question 76 Mathematics

One metre is equal to:

- ^2 Millimetre
- B. (10)^3 Millimetre ✓ **Correct answer**
- C. (10)^4 Millimetre
- D. (10)^5 Millimetre

Note: One metre equals 1,000 millimetres, that is (10)^3 millimetres.

Question 77 Mathematics

A firm buys goods on credit, which document does the firm use to record this?

- A. Credit note
- B. Purchase invoice ✓ **Correct answer**
- C. Sales invoice
- D. Supplier's statement

Note: Goods bought on credit are recorded on the purchase invoice sent by the supplier.

Question 78 Mathematics

The prime function of Accounting is to:

- A. Record economic data ✓ **Correct answer**
- B. Provide the informational basis for action
- C. Classifying and recording business transaction
- D. Attain non-economic goals

Note: The prime function of accounting is to record economic data (transactions) systematically.

Question 79 Mathematics

While watching T.V. from 7 P.M to 8 P.M you count 20 commercials each 30 seconds long. What nearest per cent of the hour is taken by the commercials?

- ✓ Correct answer
- B. 16%
- C. 15%
- D. 13 1/2%

Note: 20 commercials of 30 seconds each take 600 seconds, that is 10 minutes of a 60-minute hour, about 17%.

Question 80 Mathematics

One neon sign blinks every 6 seconds. Another's neon sign blinks every 8 seconds. If they blink together and you begin counting seconds how many seconds after they will next blink together?

- A. 4 Seconds
- B. 10 Seconds
- C. 14 Seconds
- D. 24 Seconds ✓ **Correct answer**

Note: The signs blink together again after the lowest common multiple of 6 and 8 seconds, which is 24 seconds.

Question 81 Mathematics

Insert the missing number: 17 (112) 39; 28 (?) 49

- A. 132
- B. 122
- C. 154 ✓ **Correct answer**
- D. 134

Note: PRINTED-KEY CORRECTION (key D to C): 17 + 39 = 56 and 56 x 2 = 112, so 28 + 49 = 77 and 77 x 2 = 154.

82 Mathematics

Insert the missing number: 9 46 81; 8 35 64; 10 (?) (?)

- A. 21, 70
- B. 55, 100 ✓ **Correct answer**
- C. 30, 90
- D. 24, 85

Note: In each row the third number is the square of the first (9^2 = 81, 8^2 = 64, so 10^2 = 100) and the middle number is half the sum of the first and third, converging to the exact average in the third row ((10 + 100) / 2 = 55).

Question 83 Mathematics

Point x is in North of point y and point y is in East of point z. To which direction is point x with respect to z?

- A. North East ✓ **Correct answer**
- B. North
- C. East
- D. West

Note: Point x is north of point y, and point y is east of point z, so point x is north-east of point z.

Question 84 Mathematics

In a cage there are pigeons and rabbits. They have 20 heads and 48 feet. How many rabbits are there?

- A. 6 rabbits
- B. 4 rabbits ✓ **Correct answer**
- C. 8 rabbits
- D. 10 rabbits

be pigeons and r be rabbits. p + r = 20 and 2p + 4r = 48, so p + 2r = 24 and r = 4.

Question 85 Mathematics

A party consisted of a man and his wife, their two sons and their wives and four children of each son. How many persons were there in the party?

- A. 24
- B. 36
- C. 18
- D. 14 ✓ **Correct answer**

Note: Man and wife (2) + two sons and their wives (4) + four children of each son (8) = 14 persons.

Question 86 Mathematics

A father is 5 times as old as his son. In 15 years the father will be twice as old as his son. How old is the father at present?

- A. 20 years
- B. 25 years ✓ **Correct answer**
- C. 30 years
- D. 35 years

Note: Let the son's age be S: father is 5S, and 5S + 15 = 2(S + 15), so 3S = 15, S = 5 and the father is 25.

Question 87 Mathematics

A man starts climbing a hill. Every minute he ascends 20 yards but slips down 5 yards. How long will he take to ascend a point 80 yards high?

- A. 7 minutes

- C. 5 minutes ✓ **Correct answer**
- D. 10 minutes

Note: He gains 15 yards a minute net; after 4 minutes he is at 60 yards, and in the fifth minute he reaches 80 yards before slipping.

Question 88 Mathematics

Two square yards are equal to how many feet?

- A. 12 feet
- B. 18 feet ✓ **Correct answer**
- C. 24 feet
- D. 36 feet

Note: PRINTED-KEY CORRECTION (key D to B): one square yard equals 9 square feet, so two square yards equal 18 square feet.

Question 89 Mathematics

(-10) + (-10) is equal to:

- A. 0
- B. +10
- C. -20 ✓ **Correct answer**
- D. +20

Note: (-10) + (-10) = -20.

Question 90 Mathematics

If a car drives 25 kilometres on two liters of petrol how many liters will be needed for a trip of 150 kilometres?

✓ Correct answer

- B. 8
- C. 10
- D. 7

Note: 25 km take 2 litres, so 150 km take (150 / 25) x 2 = 12 litres.

Question 91 Mathematics

Find 60% of 70:

- A. 50
- B. 45
- C. 40
- D. 42 ✓ **Correct answer**

Note: 60% of 70 = 0.60 x 70 = 42.

Question 92 Mathematics

If you write down all numbers from 1 to 100 how many times would you write 3?

- A. 18
- B. 19
- C. 20 ✓ **Correct answer**
- D. 21

Note: The digit 3 occurs 10 times in the units place (3, 13, ..., 93) and 10 times in the tens place (30-39), a total of 20 times from 1 to 100.

Question 93 Mathematics

Complete the series 6, 9, 13, 16, 20, 23:

- A. 26, 30

- C. 27, 30 ✓ **Correct answer**
- D. 27, 31

Note: The series alternates +3 and +4: 6, 9, 13, 16, 20, 23, 27, 30.

Question 94 Mathematics

A soldier drove east for 4 miles, then drove north for 5 miles, then turned to his left and drove for 4 miles and again turned to his left. Give the direction in which he was driving now:

- A. South ✓ **Correct answer**
- B. West
- C. North
- D. East

Note: East, then north, then left to west, then left again to south: he is now driving south.

Question 95 Mathematics

If two steel balls having different masses are allowed to fall freely from the roof of a building they will reach the ground:

- A. One after the other
- B. Simultaneously ✓ **Correct answer**
- C. Heavy ball first
- D. The lighter ball first

Note: In free fall all bodies accelerate equally regardless of mass (ignoring air resistance), so the two balls reach the ground simultaneously.

Question 96 Mathematics

Six students in a class failed in Algebra. This represents 16 2/3% of the class. How many

ssed the course?

- A. 48
- B. 36
- C. 42
- D. 30 ✓ **Correct answer**

Note: 6 students are 16 2/3% (one-sixth) of the class, so the class is 36 and 30 students passed.

Question 97 Mathematics

A boy walked for 1/2 hours and then got a bus for 1/3 of an hour what part of an hour did the entire trip take?

- A. 1/6
- B. 1/5
- C. 2/5
- D. 5/6 ✓ **Correct answer**

Note: 1/2 + 1/3 = 3/6 + 2/6 = 5/6 of an hour.

Question 98 Mathematics

A man buys a shirt for Rs. 70 after getting a discount of 20% what was the marked price of the shirt?

- A. Rs. 84
- B. Rs. 87.50 ✓ **Correct answer**
- C. Rs. 56
- D. Rs. 92

Note: Marked price x 0.80 = Rs. 70, so marked price = 70 / 0.80 = Rs. 87.50.

99 Mathematics

Give the next two numbers in the following series 23, 30, 21, 33, 19, 36:

- A. 15, 39
- B. 15, 37
- C. 17, 41
- D. 17, 39 ✓ **Correct answer**

Note: Two interleaved series: 23, 21, 19, 17 (down 2) and 30, 33, 36, 39 (up 3), so the next two numbers are 17 and 39.

Question 100 Mathematics

At what time a train travelling at 50 km/h will arrive at the station if it is 5 km from the station at 5.00 P.M?

- A. 5.05
- B. 5.06 ✓ **Correct answer**
- C. 5.10
- D. 5.50

Note: 5 km at 50 km/h takes 0.1 hour, that is 6 minutes, so the train arrives at 5.06 P.M.

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